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**2004 Women, Minorities, and  
Persons with Disabilities in  
Science and Engineering**



National Science Foundation

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NSF 04-317



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Persons with Disabilities in  
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# About This Report

*Women, Minorities, and Persons with Disabilities in Science and Engineering* is moving toward a new concept to provide the most current information available. Rather than being a static report, the new format is a dynamic Web-based information source with data updated as they become available. This site is a starting point for finding information about the participation of women, minorities, and persons with disabilities in science and engineering education and employment. Its primary purpose is to serve as an information source; it offers no endorsement of or recommendations about policies or programs. National Science Foundation reporting on this topic is mandated by the Science and Engineering Equal Opportunities Act (Public Law 96-516).

This site contains data tables organized by topic (e.g., undergraduate enrollment, graduate degrees, employment) and also by group (e.g., Hispanics, minority women, persons with disabilities). Presentation slides, which are charts in PowerPoint, graphic, and spreadsheet formats, are provided for easy downloading. Furthermore, links to additional data sources (e.g., National Center for Education Statistics, American Council on Education) and reports on these topics are provided. Data on this website are updated as they become available. A complete update of the report is issued every 2 years.

## Racial/ethnic information

In October 1997, the U.S. Office of Management and Budget announced new government-wide standards for the collection of data on race and ethnicity (published as U.S. OMB 1999) effective January 1, 2003. Previously, racial/ethnic groups were identified as white, non-Hispanic; black, non-Hispanic; Hispanic; Asian or Pacific Islander; and American Indian or Alaskan Native. Because the old standards were in effect when the data for this report were collected, the racial/ethnic groups described here are designated by the old standards. Where data collection permits, subgroups of the Hispanic population are identified (e.g., Mexican, Puerto Rican).

Many of the groups of particular interest are quite small, so that it is difficult to measure them accurately without surveys of the entire population. In some instances, sample surveys may not have been of sufficient scope to permit calculation of reliable racial/ethnic population estimates;

consequently, results are not shown for all groups. The Bureau of the Census's Current Population Survey, for example, cannot provide data on American Indians. Data on this population are available only from the decennial census. Another issue related to race/ethnicity is that it is easy to overlook or minimize heterogeneity within subgroups when only a single statistic is reported for an entire racial/ethnic group.

Data on race/ethnicity are often based on self-identification. These data are less reliable for certain racial/ethnic groups than for others. For example, data collected at two points in time indicate that self-identification of American Indians is much less reliable than self-identification of other racial/ethnic groups.<sup>1</sup>

## Information about people with disabilities

Data on people in science and engineering who have disabilities are seriously limited for several reasons. First, the operational definitions of *disability* vary, include a wide range of physical and mental conditions, and thus are not totally comparable. The Americans With Disabilities Act of 1990 (ADA) encouraged progress toward standard definitions. Under ADA, an individual is considered to have a disability if he or she has a physical or mental impairment that substantially limits one or more of his or her major life activities, has a record of such impairment, or is regarded as having such an impairment. ADA also contains definitions of specific disabilities. See <http://www.usdoj.gov/crt/ada/pubs/ada.txt>.

Second, data on disabilities frequently are not included in comprehensive institutional records (e.g., in registrars' records in institutions of higher education). If included at all, such information is likely to be kept only in confidential files at an office responsible for providing special services to students. Institutions of higher education are unlikely to have information regarding any students with disabilities who have not requested special services. In elementary and secondary school programs receiving funds to provide special education, however, statistics on all students identified as having special needs are centrally available.

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<sup>1</sup>U.S. Bureau of Labor Statistics, *A Test of Methods for Collecting Racial and Ethnic Information* (Washington, DC: U.S. Department of Labor, 1995).

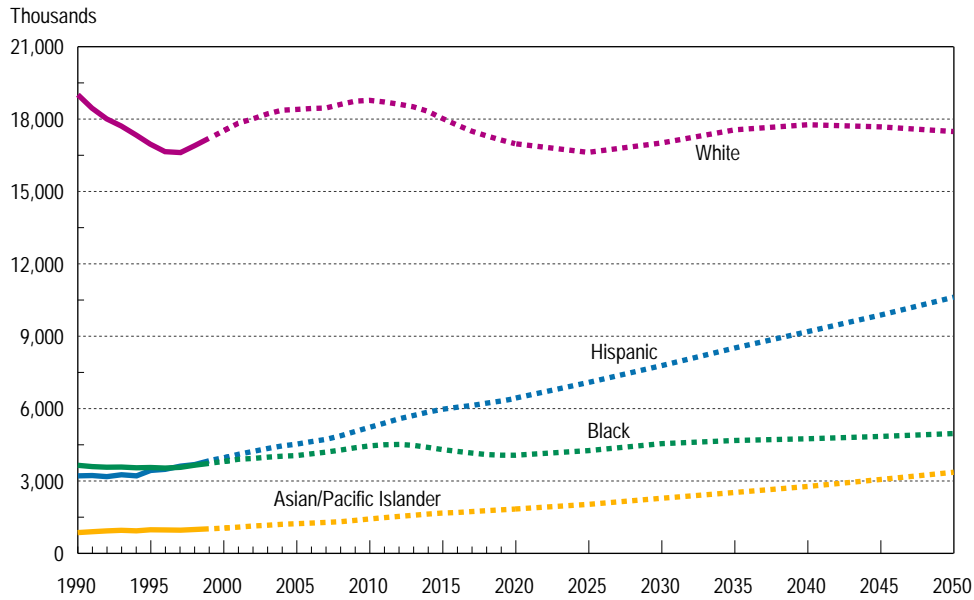
Third, information about people with disabilities that is gathered from surveys is often obtained from self-reported responses. Typically, respondents are asked whether they have a disability and to specify what kind of disability it is. Resulting data therefore reflect individual perceptions rather than objective measures.

The attempt to provide estimates of the proportion of the undergraduate student population with disabilities is an example of how these factors coalesce. Self-reported data on the undergraduate student population, collected through a survey to ascertain patterns of student financial aid, suggest

that about 10 percent of this population have a disability. Estimates from population surveys of higher education institutions, in contrast, place the estimate much lower, between 1 and 5 percent. Whether this discrepancy is the result of self-perception, incomplete reporting, nonevident disabilities, or differing definitions is difficult to ascertain.

In the final analysis, although considerable information is available about the number of individuals with disabilities in the education system and in the science and engineering workforce, it is often impossible to compare statistics from different sources.

**FIGURE A-1. U.S. population 18–24 years old, by race/ethnicity: July 1990–99 and projections to 2050**



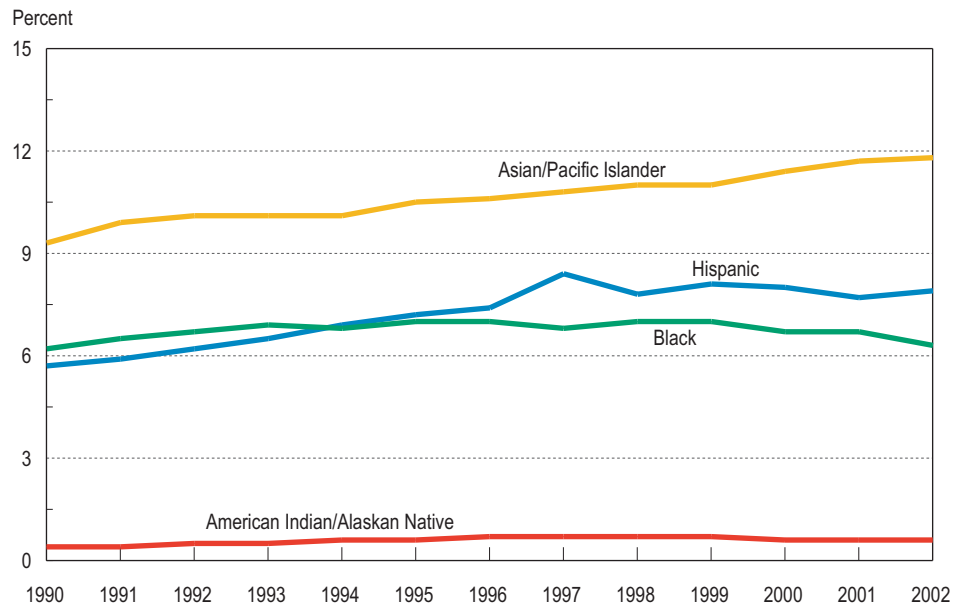
NOTE: Hispanics may be of any race. Data for American Indians/Alaskan Natives are not shown but can be found in table A-2.

SOURCE: U.S. Bureau of the Census, Current Population Survey, annual series; and U.S. Bureau of the Census, *Projections of the Total Resident Population by 5-Year Age Groups, and Sex With Special Age Categories: Middle Series, 1999 to 2100*, NP-T3, <http://www.census.gov/population/www/projections/natsum-T3.html>

The proportion of the U.S. population that is minority will continue to rise in the first half of the 21st century.

- According to the latest population projections, minorities (Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives) are expected to be more than half (52 percent) of the resident college-age (18–24 years old) population of the United States by 2050, up from 34 percent in 1999.
- By 2050, whites would constitute 48 percent of the U.S. population 18–24 years old, down from 66 percent in 1999.
- The greatest growth among minority groups is projected for Hispanics and Asians/Pacific Islanders, reflecting immigration trends.
- Relatively little growth is projected for college-age blacks and American Indians/Alaskan Natives; these populations would remain 14 and 0.9 percent, respectively, of all U.S. 18–24-year-olds in 2050.

**FIGURE B-1. Minority undergraduate engineering students, by race/ethnicity: 1990–2002**



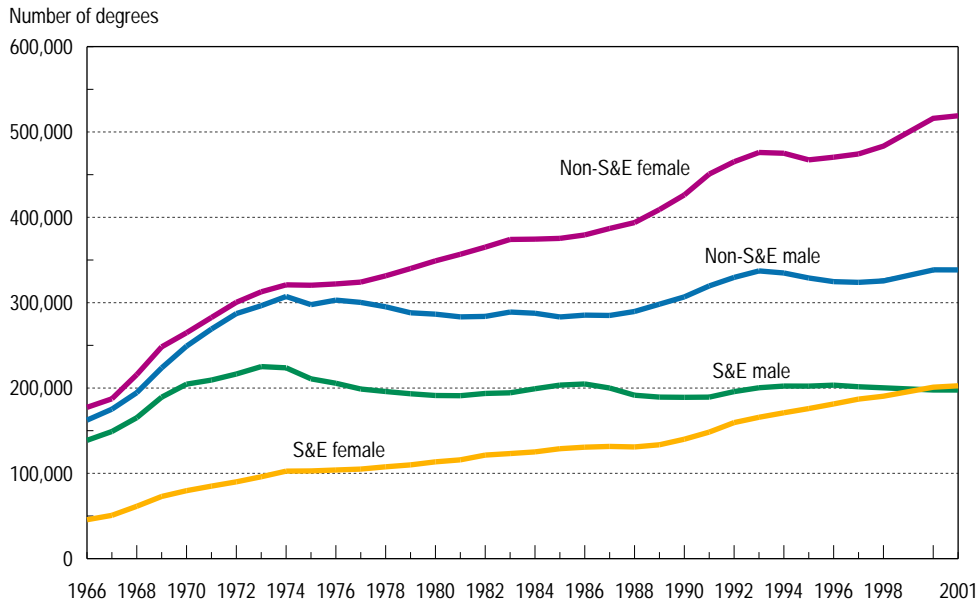
SOURCE: American Association of Engineering Societies, Engineering Workforce Commission, special tabulations.

Minorities account for an increasing proportion of undergraduate engineering enrollment.

- The percentage of undergraduate engineering students who are white decreased from 76 percent in 1990 to 68 percent in 2002.
- The Asian/Pacific Islander share of engineering enrollment generally increased between 1990 and 2002.
- The Black, Hispanic, and American Indian/Alaskan Native share of engineering enrollment also increased, although there has been little growth or some decline since the late 1990s.



**FIGURE C-1. Bachelor's degrees awarded in S&E and non-S&E fields, by sex: 1966–2001**



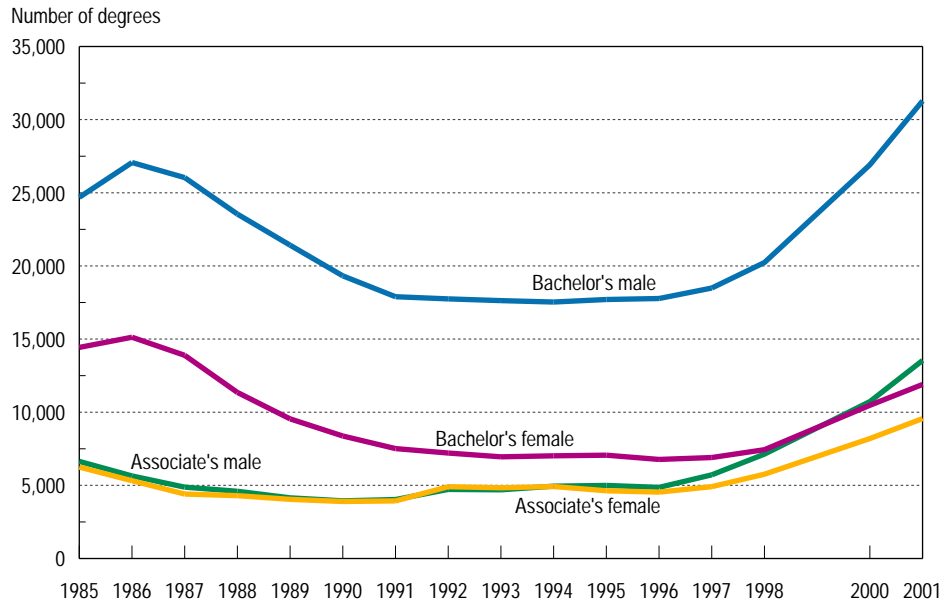
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2001.

Females now account for half of all S&E bachelor's degree awards.

- The number of S&E bachelor's degrees awarded to females has increased  every year since 1966 (excluding 1988), reaching 202,583 in 2001.
- The number of bachelor's degrees in S&E awarded to males has fluctuated  around 200,000 since 1976.
- Females earn more bachelor's degrees in non-S&E fields than males.

**FIGURE C-2. Bachelor's and associate's degrees awarded in computer sciences, by sex: 1985–2001**



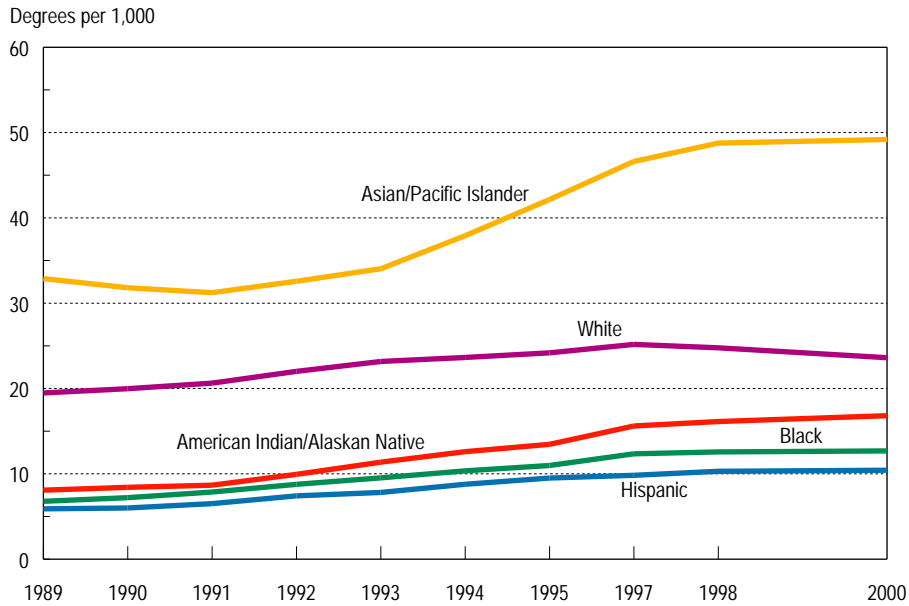
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1985–2001.

Bachelor's degrees awarded in computer sciences rose steeply in the latter part of the 1990s, especially for males.

- The female share of bachelor's degrees in computer sciences dropped from  37 percent in 1985 to 28 percent in 2001.
- The number of associate's and bachelor's degrees awarded in computer  sciences to both males and females increased substantially in the late 1990s.

**FIGURE C-3. S&E bachelor's degrees awarded per 1,000 U.S. citizens and permanent residents 20–24 years old, by race/ethnicity: 1989–2000**



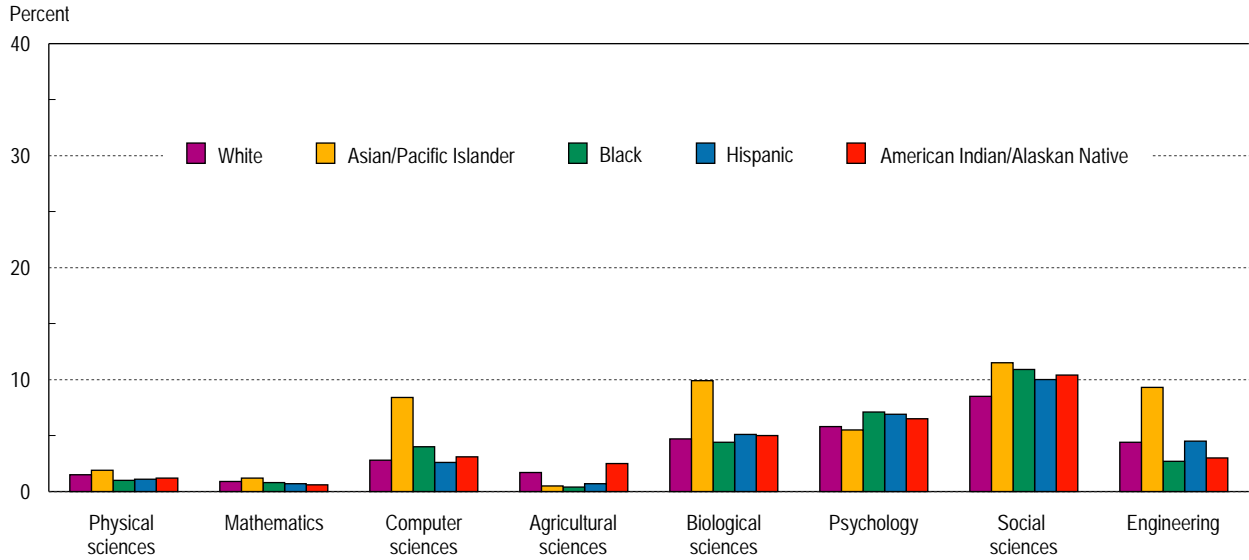
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1989–2001; and U.S. Bureau of the Census, Current Population Survey.

Blacks, Hispanics, and American Indians/Alaskan Natives earn fewer S&E bachelor's degrees relative to their population than do whites, but the differences narrowed in the 1990s.

- The number of S&E bachelor's degrees earned by nonwhite groups has  risen since 1989.
- The rate of increase in degrees earned exceeded the rate of population  growth for these groups.
- Asians/Pacific Islanders earn more S&E bachelor's degrees than whites  do relative to their college-age populations, and the difference widened  during the 1990s.

**FIGURE C-4. Bachelor's degrees awarded to racial/ethnic groups in S&E fields: 2001**



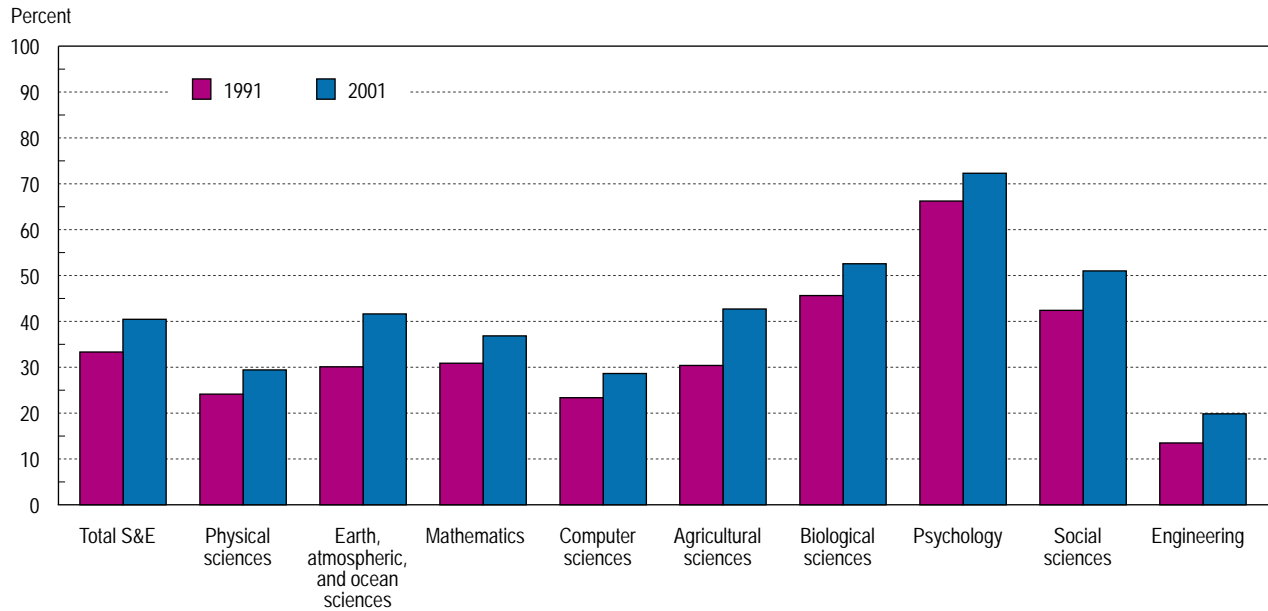
NOTE: Percents refer to percentage of each racial/ethnic group earning degrees in a given field. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2001.

White, black, Hispanic, and American Indian/Alaskan Native S&E bachelor's degree recipients are similarly distributed across most broad S&E fields.

- With the exception of Asians/Pacific Islanders, for whom almost half
- of all bachelor's degrees received are in S&E, about a third of bachelor's
- degrees earned by each racial/ethnic group are in S&E.
- A higher percentage of Asians/Pacific Islanders than of other
- racial/ethnic groups earned their bachelor's degrees in computer
- sciences, biological sciences, and engineering.

**FIGURE D-1. Female share of S&E graduate students, by field: 1991 and 2001**

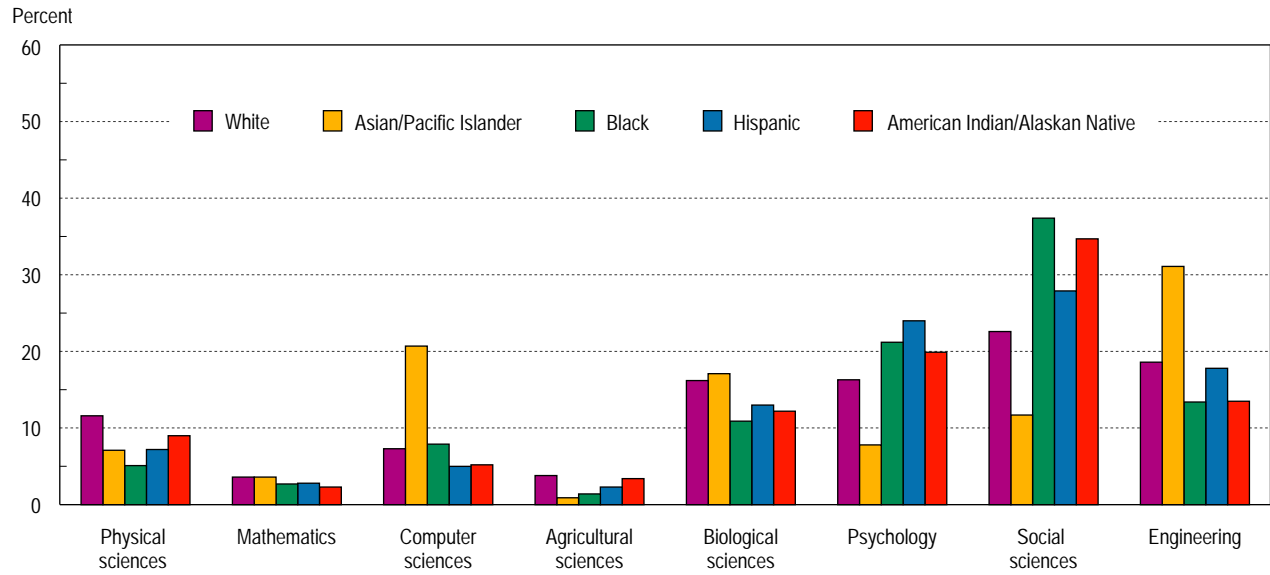


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1991 and 2001.

Females constituted a greater percentage of graduate students in S&E in 2001 (41 percent) than in 1991 (34 percent).

- Females accounted for more than half of all graduate students in some
- science fields: in 2001, for example, females made up 74 percent of the
- graduate students in psychology, 54 percent in biological sciences, and
- 52 percent in social sciences.
- Roughly 30-40 percent of the graduate students in most other science
- fields were female.
- Females accounted for 20 percent of graduate students in engineering
- and 30 percent of graduate students in computer sciences in 2001.

**FIGURE D-2. Field distribution of S&E graduate students, by race/ethnicity: 2001**



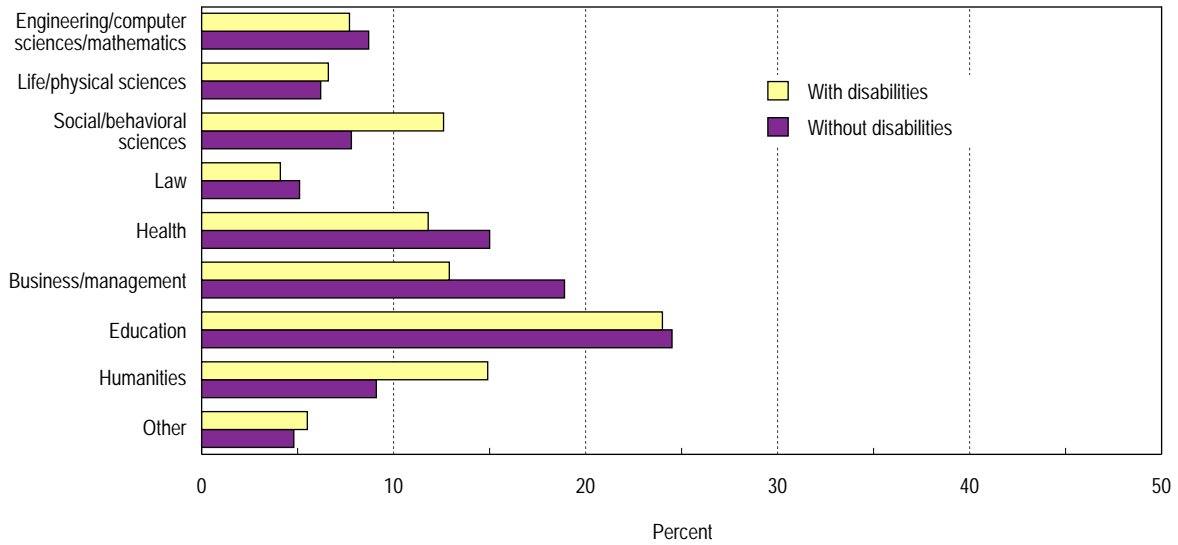
NOTES: Data are for U.S. citizens and permanent residents only. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

Asian/Pacific Islander S&E graduate students are distributed among S&E fields differently from graduate students of other racial/ethnic groups.

- In 2001, more than 50 percent of black, Hispanic, and American Indian/Alaskan Native graduate students and 39 percent of white students were in psychology or social sciences, compared to 20 percent of Asian/Pacific Islander students.
- Larger percentages of Asian/Pacific Islander graduate students than of other groups were in computer sciences, biological sciences, and engineering.

**FIGURE D-3. Field distribution of graduate students, by disability status: 2000**

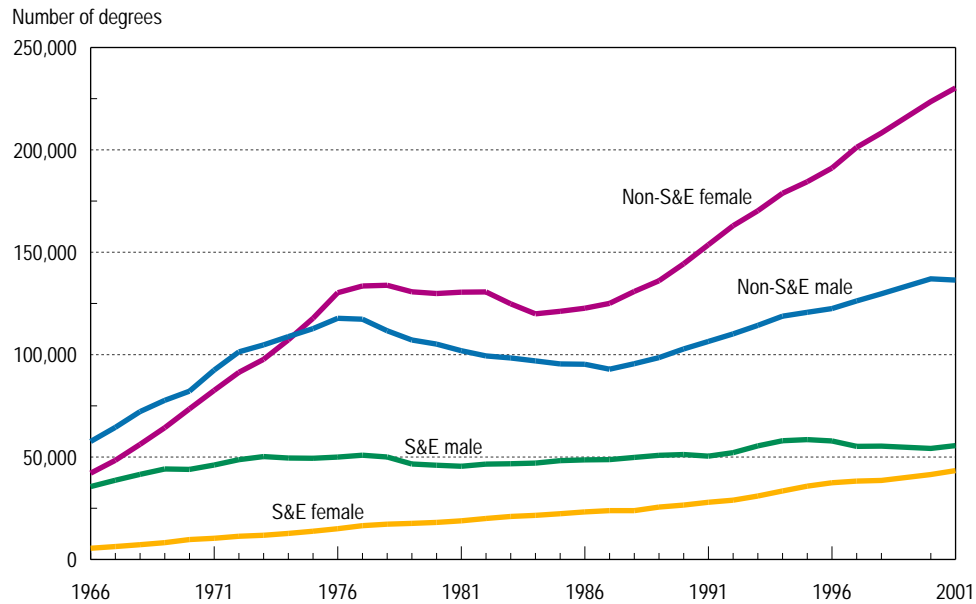


SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

Graduate students with disabilities differ somewhat from students without disabilities in their distribution across disciplines.

- Similar percentages of graduate students with and without disabilities were
- enrolled in graduate programs in three broad-field groups:
- engineering/computer sciences/mathematics; life/physical sciences; and
- education in 2000.
- A higher percentage of graduate students with disabilities than without
- disabilities were in social and behavioral sciences and in the humanities.

**FIGURE E-1. Master's degrees awarded in S&E and non-S&E fields, by sex: 1966–2001**



NOTE: National data not available for 1999.

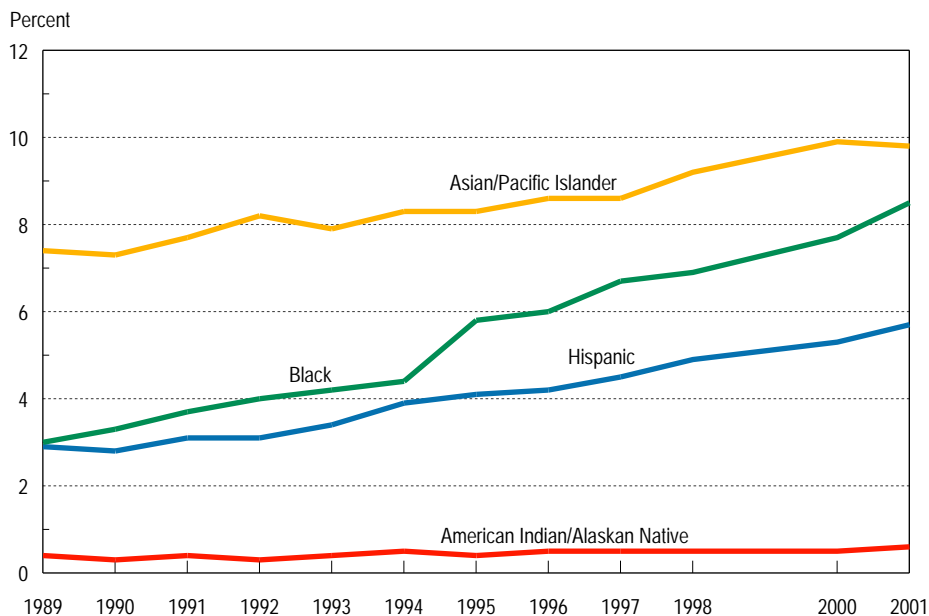
SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2001.

The number of master's degrees earned by females rose more rapidly than for males in the 1990s.

- By 2001, females earned 44 percent of S&E and 63 percent of non-S&E master's degrees, up from 34 and 48 percent, respectively, in 1990.
- In S&E and non-S&E fields, both the number of females earning master's degrees and their proportion of all students earning master's degrees rose steadily during the 1990s.
- For both males and females, the proportion of master's degrees earned in S&E fields declined in the 1990s.



**FIGURE E-2. Minority share of S&E master's degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 1989–2001**



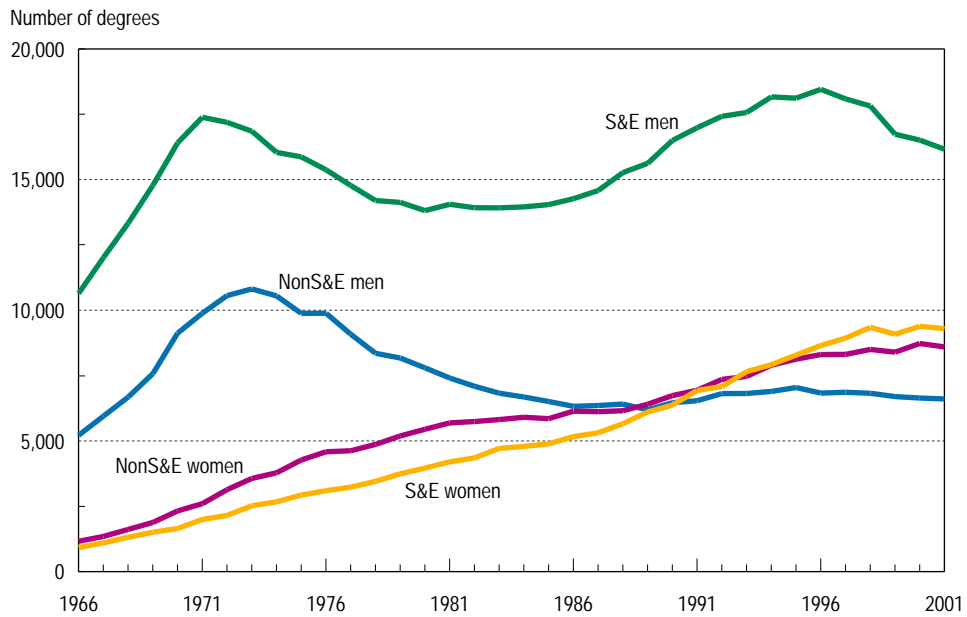
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2001.

The percentages of S&E master's degrees earned by Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives increased during the 1990s.

- The number of S&E master's degrees awarded increased for all minority groups and for white females during the 1990s.
- The number of S&E master's degrees earned by white males decreased during the decade.

**FIGURE F-1. Doctoral degrees awarded in S&E and non-S&E fields, by sex: 1966–2001**

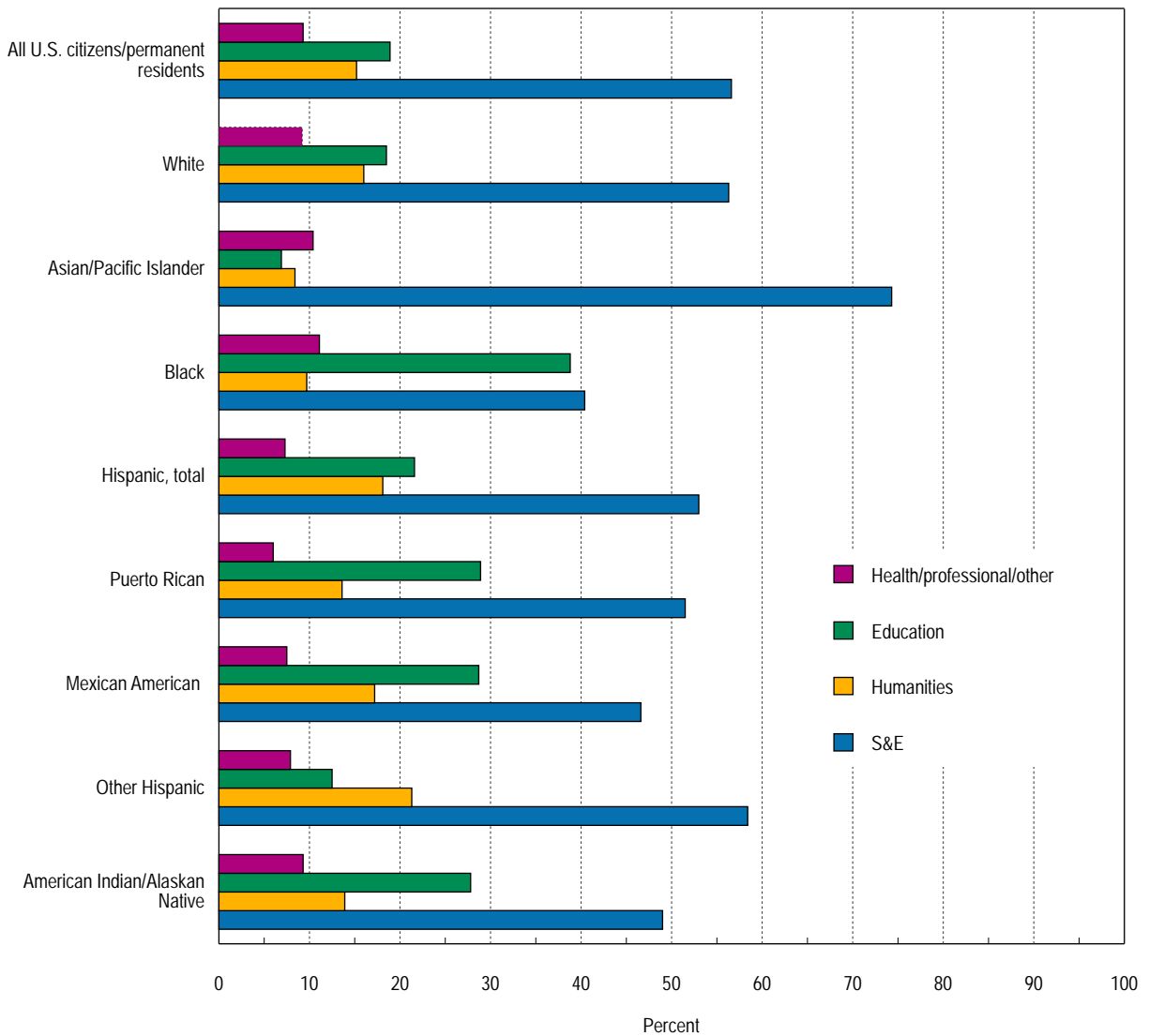


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1966–2001.

Both the number of females earning doctoral degrees and their percentage of total awards in S&E and non-S&E fields rose between 1966 and 2001.

- ● By 2001, females earned 37 percent of S&E and 57 percent of non-S&E □  
□ doctoral degrees, up from 8 and 18 percent, respectively, in 1966.
- ● The number of males earning S&E doctoral degrees dropped between □  
□ 1996 and 2001.

**FIGURE F-2. Field distribution of S&E and non-S&E doctoral degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 2001**



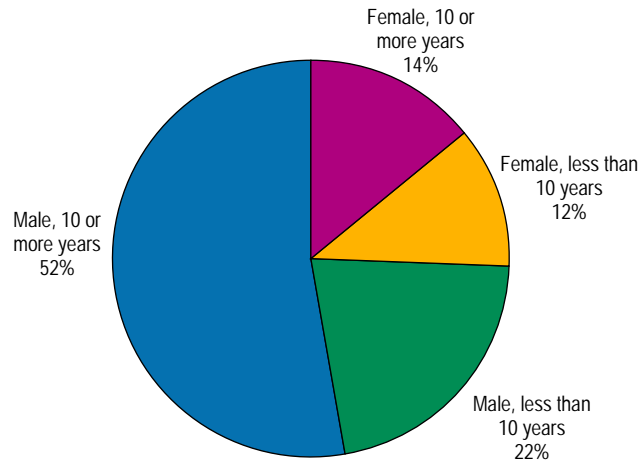
NOTE: Hispanic total includes Puerto Rican, Mexican American, and other Hispanic.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

The proportion of all doctorates earned in S&E fields varies considerably across racial/ethnic groups.

- More than half of all doctorates awarded to U.S. citizens and permanent residents were earned in S&E fields in 2001.
- However, among blacks, more than half of the doctorates earned in 2001 were in non-S&E fields, primarily education.
- In contrast, 78 percent of doctorates earned by Asians/Pacific Islanders were in S&E fields, and only 7 percent were in education in 2001.

**FIGURE H-1. Employed S&E doctorate holders, by sex and years since doctorate: 2001**

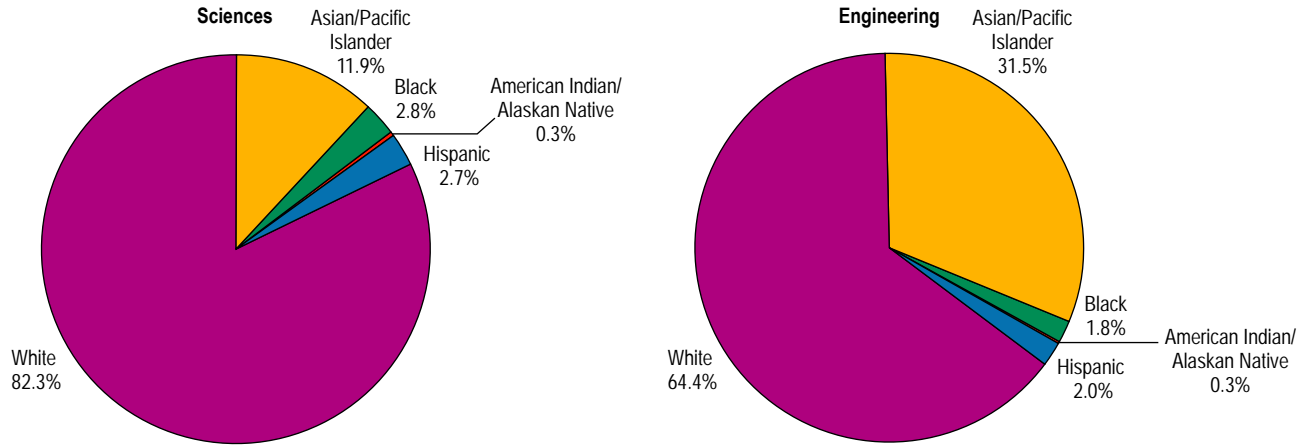


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

Females made up about 26 percent of employed S&E doctorate holders in 2001.

- More than half of employed S&E doctorate holders in 2001 were males who had earned their doctorates 10 or more years earlier.
- Females constituted a larger share of recent S&E doctorate holders (i.e., those who had earned doctorates less than 10 years earlier) than they did of S&E doctorate holders who earned doctorates more than 10 years earlier.

FIGURE H-2. Employed S&E doctorate holders, by race/ethnicity and field of doctorate: 2001

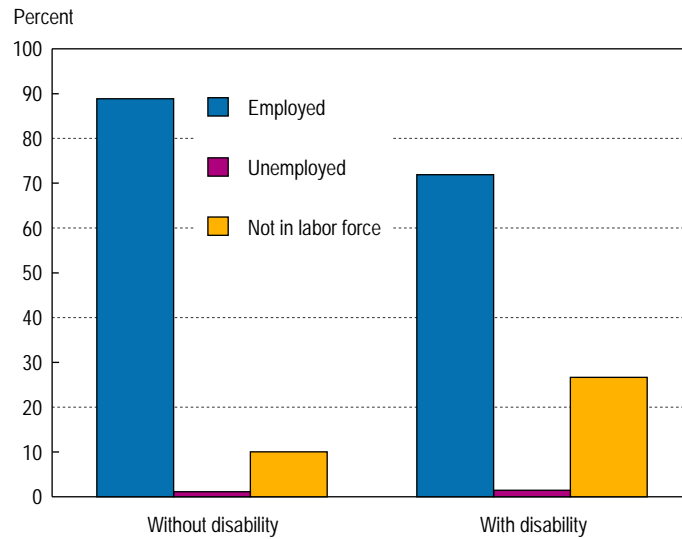


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

The racial/ethnic composition of engineering doctorate holders differs markedly from that of science doctorate holders.

- Asians/Pacific Islanders comprised a far larger share and whites a much smaller share of engineering doctorate holders than of science doctorate holders in 2001.
- Blacks and Hispanics each constituted about 3 percent of science doctorate holders and 2 percent of engineering doctorate holders in 2001.
- American Indians/Alaskan Natives were 0.3 percent of both science and engineering doctorate holders in 2001.

**FIGURE H-3. S&E doctorate holders, by disability and employment status: 2001**

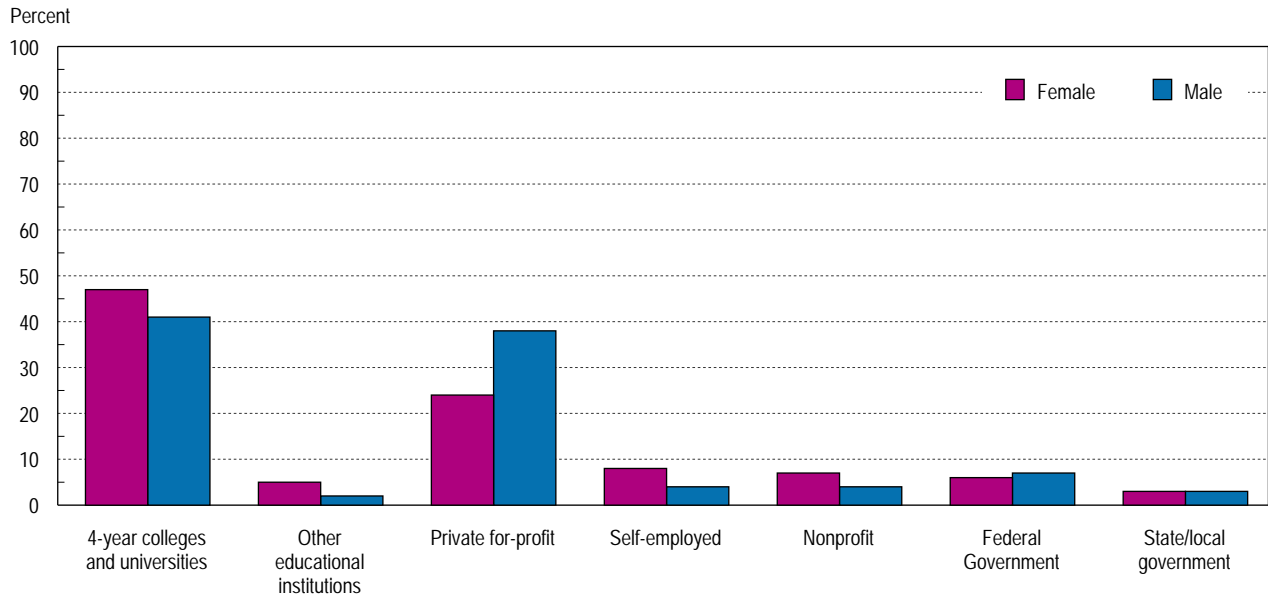


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

The labor force participation rates of S&E doctorate holders with and without disabilities are quite different.

- • About 27 percent of S&E doctorate holders with □ □
- disabilities were out of the labor force in 2001, □ □
- compared with 10 percent of those without □ □
- disabilities.

**FIGURE H-4. Employed S&E doctorate holders, by employment sector and sex: 2001**

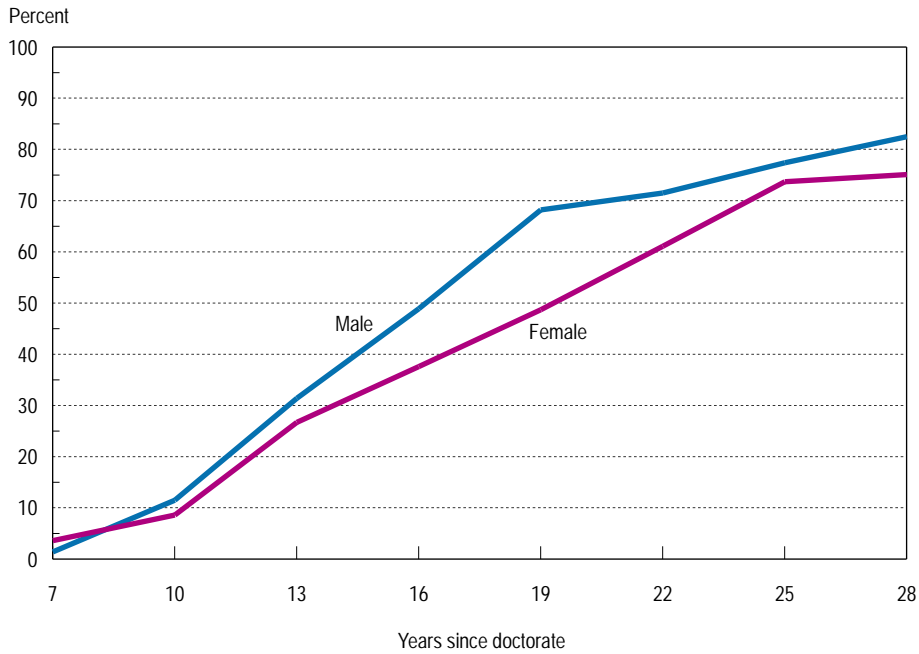


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

Male and female employed doctorate holders differ in the sectors in which they are employed.

- Females were less likely than males to be employed in business or industry
- and more likely to be employed in educational institutions in 2001.
- Variations by sector primarily stem from differences in occupation. Females
- were less likely than males to be engineers or physical scientists, occupations
- that tend to be employed in business or industry.

**FIGURE H-5. Full professors as a percentage of full-time ranked S&E doctorate holders in 4-year colleges and universities, by sex and years since doctorate: 2001**



NOTES: Base of percentage is full, associate, and assistant professors. Because of small sample sizes, a 3-year average is used for years since doctorate.

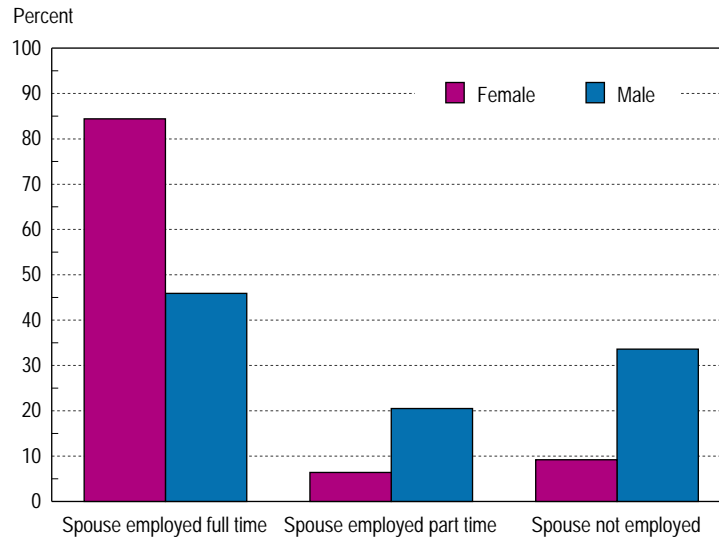
SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

Among S&E doctorate holders who hold academic faculty positions in 4-year colleges and universities, females are less likely than their male colleagues to be found in the highest faculty ranks.

- Females are less likely than males to be full professors and more likely  to be assistant professors.
- The differences in rank vary by time since earning the doctorate. Few  differences in rank exist between males and females in their early  careers and greater differences exist between 15 and 20 years after  receipt of the doctorate.



**FIGURE H-6. Employment status of spouses of employed S&E doctorate holders, by sex: 2001**

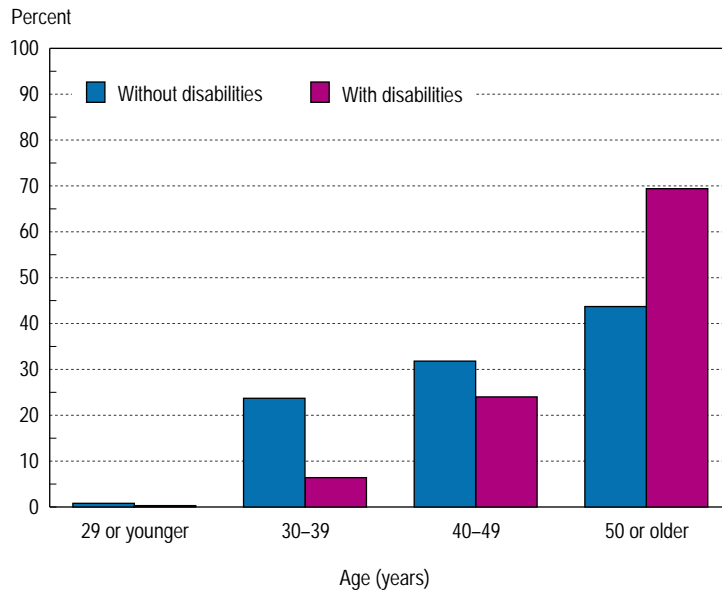


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

Married female S&E doctorate holders are more likely than their male counterparts to face the challenges of a dual-career household.

- Female S&E doctorate holders are almost twice as likely as males to have spouses employed full time: 82 percent of the married females and 42 percent of the married males had spouses employed full time in 2001.
- Only 13 percent of the married females but 38 percent of the married males had spouses who were not employed.

**FIGURE H-7. Age distribution of S&E doctorate holders, by disability status: 2001**



SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

Scientists and engineers with disabilities are older, on average, than those without disabilities.

- Only 7 percent of employed S&E doctorate holders with disabilities were younger than 40 years in 2001, compared with 25 percent of those without disabilities.
- Conversely, 69 percent of those with disabilities and 44 percent of those without were 50 or older.

TABLE A-1. Resident population of United States, by age and sex: 2001

Age (years)	All residents	Female		Male	
		Number	Percent	Number	Percent
All ages	284,796,887	144,983,779	50.9	139,813,108	49.1
Younger than 5	19,369,341	9,464,059	48.9	9,905,282	51.1
5-9	20,184,052	9,847,436	48.8	10,336,616	51.2
10-14	20,881,442	10,185,198	48.8	10,696,244	51.2
15-19	20,267,154	9,843,981	48.6	10,423,173	51.4
20-24	19,681,213	9,619,230	48.9	10,061,983	51.1
25-29	18,926,104	9,333,209	49.3	9,592,895	50.7
30-34	20,681,202	10,260,525	49.6	10,420,677	50.4
35-39	22,243,146	11,138,324	50.1	11,104,822	49.9
40-44	22,775,521	11,477,432	50.4	11,298,089	49.6
45-49	20,768,983	10,544,119	50.8	10,224,864	49.2
50-54	18,419,209	9,407,988	51.1	9,011,221	48.9
55-59	14,190,116	7,324,677	51.6	6,865,439	48.4
60-64	11,118,462	5,829,935	52.4	5,288,527	47.6
65-69	9,532,702	5,123,044	53.7	4,409,658	46.3
70-74	8,780,521	4,892,728	55.7	3,887,793	44.3
75-79	7,424,947	4,367,545	58.8	3,057,402	41.2
80-84	5,149,013	3,219,698	62.5	1,929,315	37.5
85-89	2,887,943	1,961,289	67.9	926,654	32.1
90-94	1,175,545	871,618	74.1	303,927	25.9
95-99	291,844	233,177	79.9	58,667	20.1
100 and older	48,427	38,567	79.6	9,860	20.4
Age groups					
5-13	37,001,745	18,050,206	48.8	18,951,539	51.2
14-17	16,181,075	7,874,918	48.7	8,306,157	51.3
18-24	27,831,041	13,570,721	48.8	14,260,320	51.2
16 and older	220,309,468	113,513,384	51.5	106,796,084	48.5
18 and older	212,244,726	109,594,596	51.6	102,650,130	48.4
15-44	124,574,340	61,672,701	49.5	62,901,639	50.5
65 and older	35,290,942	20,707,666	58.7	14,583,276	41.3
85 and older	4,403,759	3,104,651	70.5	1,299,108	29.5

SOURCE: U.S. Census Bureau, Population Division, Table US-EST2001=ASRO-01: National Population Estimates—Characteristics, January 21, 2003.

TABLE A-2. Resident population of United States, by race/ethnicity and age: 2001

Race/ethnicity	All residents	Age (years)							
		5-13	14-17	18-24	16 and older	18 and older	15-44	65 and older	85 and older
Number									
All races/ethnicities	284,796,887	37,001,745	16,181,075	27,831,041	220,309,468	212,244,726	124,574,340	35,290,942	4,403,759
One race, non-Hispanic									
White	196,218,522	22,465,893	10,299,598	17,240,903	157,266,923	152,124,525	81,251,865	29,385,873	3,822,867
Asian	10,739,665	1,264,201	572,658	1,154,614	8,496,663	8,205,223	5,437,303	867,893	71,068
Native Hawaiian/Pacific Islander	376,434	58,576	26,274	49,932	275,417	262,077	193,702	21,071	1,824
Black/African American	34,798,650	5,627,363	2,361,989	3,883,787	25,212,828	24,045,992	16,233,103	2,849,809	317,218
American Indian/Alaska Native	2,134,297	355,415	161,343	248,235	1,524,999	1,444,574	1,008,866	135,450	12,366
Two or more races, non-Hispanic	3,557,100	801,853	286,180	409,395	2,047,719	1,908,912	1,444,695	180,574	18,482
Hispanic/Latino	36,972,219	6,428,444	2,473,033	4,844,175	25,484,919	24,253,423	19,004,806	1,850,272	159,934
Race alone or in combination with one or more races <sup>a</sup>									
White	199,254,640	23,181,253	10,549,418	17,583,868	158,948,286	153,685,282	82,444,628	29,536,212	3,838,395
Asian	12,075,466	1,567,140	685,592	1,329,435	9,265,408	8,918,580	6,037,641	917,130	75,551
Native Hawaiian/Pacific Islander	773,169	131,978	56,612	103,351	541,247	512,764	384,154	42,559	4,019
Black/African American	36,065,198	5,994,937	2,467,403	4,020,908	25,761,750	24,545,519	16,664,614	2,888,671	321,685
American Indian/Alaska Native	3,515,308	567,170	260,323	395,270	2,533,170	2,403,314	1,608,998	252,604	24,515
Percent									
All races/ethnicities	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All races									
White, non-Hispanic	68.9	60.7	63.7	61.9	71.4	71.7	65.2	83.3	86.8
Asian	3.8	3.4	3.5	4.1	3.9	3.9	4.4	2.5	1.6
Native Hawaiian/Pacific Islander	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0
Black/African American	12.2	15.2	14.6	14.0	11.4	11.3	13.0	8.1	7.2
American Indian/Alaska Native	0.7	1.0	1.0	0.9	0.7	0.7	0.8	0.4	0.3
Two or more races	1.2	2.2	1.8	1.5	0.9	0.9	1.2	0.5	0.4
Hispanic/Latino	13.0	17.4	15.3	17.4	11.6	11.4	15.3	5.2	3.6
Race alone or in combination with one or more races <sup>a</sup>									
White	70.0	62.6	65.2	63.2	72.1	72.4	66.2	83.7	87.2
Asian	4.2	4.2	4.2	4.8	4.2	4.2	4.8	2.6	1.7
Native Hawaiian/Pacific Islander	0.3	0.4	0.3	0.4	0.2	0.2	0.3	0.1	0.1
Black/African American	12.7	16.2	15.2	14.4	11.7	11.6	13.4	8.2	7.3
American Indian/Alaska Native	1.2	1.5	1.6	1.4	1.1	1.1	1.3	0.7	0.6

<sup>a</sup>In combination with one or more other races listed. Individuals may report more than one race.

SOURCE: U.S. Census Bureau, Population Division, Table US-EST2001=ASRO-03: National Population Estimates—Characteristics, January 21, 2003.

TABLE A-3. Disability status of U.S. civilian noninstitutionalized population, by disability type and age: 2000

Disability type and age (years)	Number	Percent
5 and older	257,167,527	100.0
Any disability <sup>1</sup>	49,746,248	19.3
5-15	45,133,667	100.0
Any disability <sup>1</sup>	2,614,919	5.8
Long-lasting conditions		
Physical	455,461	1.0
Sensory	442,894	1.0
Difficulty in activity		
Learning, remembering, concentrating	2,078,502	4.6
Self-care	419,018	0.9
16-64	178,687,234	100.0
Any disability <sup>1</sup>	33,153,211	18.6
Long-lasting conditions		
Physical	11,150,365	6.2
Sensory	4,123,902	2.3
Difficulty in activity		
Learning, remembering, concentrating	6,764,439	3.8
Self-care	3,149,875	1.8
Difficulty going outside home	11,414,508	6.4
Employment	21,287,570	11.9
65 and older	33,346,626	100.0
Any disability <sup>1</sup>	13,978,118	41.9
Long-lasting conditions		
Physical	9,545,680	28.6
Sensory	4,738,479	14.2
Difficulty in activity		
Learning, remembering, concentrating	3,592,912	10.8
Self-care	3,183,840	9.5
Difficulty going outside home	6,795,517	20.4

<sup>1</sup>Individuals were classified by Census as having a disability if any of the following three conditions were true: (1) they were ages 5 or older and responded yes to sensory, physical, mental or self-care disability; (2) they were ages 16 or older and responded yes to going outside the home disability; or (3) they were ages 16-64 and responded yes to employment disability.

NOTES: Data on disability status were derived from answers to two items in the census long-form questionnaire. One asked about the existence of the following long-lasting conditions: blindness, deafness, or a severe vision or hearing impairment (sensory disability), and a condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting, or carrying (physical disability). The second question asked if the individual had a physical, mental, or emotional condition lasting 6 months or more that made it difficult to perform certain activities: (a) learning, remembering, or concentrating (mental disability); (b) dressing, bathing, or getting around inside the home (self-care disability); (c) going outside the home alone to shop or visit a doctor's office (going outside the home disability); and (d) working at a job or business (employment disability).

SOURCE: U.S. Bureau of the Census, *Disability Status: 2000: Census 2000 Brief* (Washington, DC, 2003).

TABLE B-1. Undergraduate enrollment at all institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1994–2000

Race/ethnicity, citizenship, sex, and status	1994	1995	1996	1997	1998	2000
All enrolled	12,417,701	12,399,826	12,424,570	12,458,456	12,750,061	13,435,923
White	8,916,770	8,806,202	8,731,457	8,684,498	8,691,039	8,659,934
Asian/Pacific Islander	683,508	700,828	721,773	745,299	833,842	791,431
Black	1,319,684	1,336,052	1,354,910	1,382,028	1,463,163	1,505,216
Hispanic	1,109,931	1,167,472	1,218,711	1,253,807	1,341,568	1,418,154
American Indian/Alaskan Native	117,434	120,728	122,943	127,191	181,529	128,716
Other or unknown race/ethnicity	0	0	0	0	0	649,391
Temporary resident	270,374	268,544	274,776	265,633	238,920	283,081
Female	6,933,359	6,932,456	6,948,950	6,990,620	7,191,871	7,418,668
White	4,953,370	4,887,860	4,840,551	4,825,977	4,841,635	4,707,602
Asian/Pacific Islander	347,548	358,744	371,033	385,372	439,484	414,678
Black	816,172	828,672	841,234	860,908	917,878	928,866
Hispanic	624,149	662,310	694,994	718,065	773,438	808,648
American Indian/Alaskan Native	68,784	70,505	71,935	74,540	107,691	75,652
Other or unknown race/ethnicity	0	0	0	0	0	347,413
Temporary resident	123,336	124,365	129,203	125,758	111,745	135,809
Male	5,484,342	5,467,370	5,475,620	5,467,836	5,558,190	6,017,255
White	3,963,400	3,918,342	3,890,906	3,858,521	3,849,404	3,952,332
Asian/Pacific Islander	335,960	342,084	350,740	359,927	394,358	376,753
Black	503,512	507,380	513,676	521,120	545,285	576,350
Hispanic	485,782	505,162	523,717	535,742	568,130	609,506
American Indian/Alaskan Native	48,650	50,223	51,008	52,651	73,838	53,064
Other or unknown race/ethnicity	0	0	0	0	0	301,978
Temporary resident	147,038	144,179	145,573	139,875	127,175	147,272
Full time	7,287,543	7,275,785	7,340,530	7,433,839	7,563,837	7,868,117
White	5,220,478	5,163,690	5,173,725	5,215,055	5,288,147	5,218,794
Asian/Pacific Islander	416,347	428,108	439,215	452,629	478,700	467,236
Black	777,098	778,659	795,368	812,110	832,645	840,272
Hispanic	604,721	636,116	657,342	673,976	697,636	722,012
American Indian/Alaskan Native	65,909	67,369	69,178	72,563	74,120	70,723
Other or unknown race/ethnicity	0	0	0	0	0	324,727
Temporary resident	202,990	201,843	205,702	207,506	192,589	224,353
Female	3,899,481	3,928,344	3,986,969	4,054,682	4,136,520	4,323,326
White	2,756,539	2,748,730	2,767,814	2,802,244	2,846,852	2,824,564
Asian/Pacific Islander	207,695	215,553	222,620	231,388	247,221	244,411
Black	468,089	472,825	485,722	495,764	509,099	514,856
Hispanic	341,016	362,999	378,227	389,448	403,127	421,963
American Indian/Alaskan Native	37,291	38,291	39,615	41,460	42,735	41,289
Other or unknown race/ethnicity	0	0	0	0	0	171,822
Temporary resident	88,851	89,946	92,971	94,378	87,486	104,421
Male	3,388,062	3,347,441	3,353,561	3,379,157	3,427,317	3,544,791
White	2,463,939	2,414,960	2,405,911	2,412,811	2,441,295	2,394,230
Asian/Pacific Islander	208,652	212,555	216,595	221,241	231,479	222,825
Black	309,009	305,834	309,646	316,346	323,546	325,416
Hispanic	263,705	273,117	279,115	284,528	294,509	300,049
American Indian/Alaskan Native	28,618	29,078	29,563	31,103	31,385	29,434
Other or unknown race/ethnicity	0	0	0	0	0	152,905
Temporary resident	114,139	111,897	112,731	113,128	105,103	119,932

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Until 1998, data on "other or unknown race/ethnicity" were distributed across the other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1994–2000.

TABLE B-2. Enrollment of first-time, first-year undergraduate students at all institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1994–2000

Race/ethnicity, citizenship, sex, and status	1994	1995	1996	1997	1998	2000
All enrolled	2,163,778	2,207,545	2,230,357	2,182,788	2,194,148	2,376,968
White	1,519,331	1,541,430	1,548,087	1,535,230	1,532,914	1,565,273
Asian/Pacific Islander	122,070	122,882	123,997	119,048	123,022	125,198
Black	252,881	252,464	260,483	257,224	264,909	280,122
Hispanic	205,597	226,463	231,806	208,962	216,521	235,138
American Indian/Alaskan Native	22,817	23,198	23,896	22,546	22,208	22,394
Other or unknown race/ethnicity	0	0	0	0	0	106,116
Temporary resident	41,082	41,108	42,088	39,778	34,574	42,727
Female	1,166,415	1,190,773	1,201,597	1,176,020	1,184,620	1,275,694
White	813,494	824,497	825,270	818,916	816,606	829,549
Asian/Pacific Islander	61,716	62,262	62,981	60,661	63,448	64,422
Black	147,018	146,559	151,885	149,418	155,749	163,443
Hispanic	112,734	125,488	128,582	115,998	120,567	131,604
American Indian/Alaskan Native	12,579	12,809	13,200	12,498	12,361	12,683
Other or unknown race/ethnicity	0	0	0	0	0	54,397
Temporary resident	18,874	19,158	19,679	18,529	15,889	19,596
Male	997,363	1,016,772	1,028,760	1,006,768	1,009,528	1,101,274
White	705,837	716,933	722,817	716,314	716,308	735,724
Asian/Pacific Islander	60,354	60,620	61,016	58,387	59,574	60,776
Black	105,863	105,905	108,598	107,806	109,160	116,679
Hispanic	92,863	100,975	103,224	92,964	95,954	103,534
American Indian/Alaskan Native	10,238	10,389	10,696	10,048	9,847	9,711
Other or unknown race/ethnicity	0	0	0	0	0	51,719
Temporary resident	22,208	21,950	22,409	21,249	18,685	23,131
Full time	1,630,719	1,682,207	1,708,213	1,714,251	1,759,875	1,850,185
White	1,163,754	1,194,415	1,208,127	1,218,565	1,248,333	1,245,642
Asian/Pacific Islander	90,095	91,361	93,351	94,526	99,288	99,737
Black	189,054	190,853	196,937	196,631	204,255	208,355
Hispanic	139,256	156,582	159,434	153,383	160,328	167,164
American Indian/Alaskan Native	15,637	15,935	16,471	16,522	16,767	16,596
Other or unknown race/ethnicity	0	0	0	0	0	75,678
Temporary resident	32,923	33,061	33,893	34,624	30,904	37,013
Female	868,377	900,718	914,989	919,858	946,154	995,634
White	612,067	631,296	638,032	645,870	661,334	661,923
Asian/Pacific Islander	45,643	46,539	47,594	48,627	51,577	51,857
Black	109,596	110,738	115,177	114,102	119,632	122,133
Hispanic	77,878	88,411	89,731	86,437	90,374	95,219
American Indian/Alaskan Native	8,514	8,686	9,088	9,012	9,290	9,281
Other or unknown race/ethnicity	0	0	0	0	0	38,516
Temporary resident	14,679	15,048	15,367	15,810	13,947	16,705
Male	762,342	781,489	793,224	794,393	813,721	854,551
White	551,687	563,119	570,095	572,695	586,999	583,719
Asian/Pacific Islander	44,452	44,822	45,757	45,899	47,711	47,880
Black	79,458	80,115	81,760	82,529	84,623	86,222
Hispanic	61,378	68,171	69,703	66,946	69,954	71,945
American Indian/Alaskan Native	7,123	7,249	7,383	7,510	7,477	7,315
Other or unknown race/ethnicity	0	0	0	0	0	37,162
Temporary resident	18,244	18,013	18,526	18,814	16,957	20,308

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Until 1998, data on "other or unknown race/ethnicity" were distributed across the other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1994–2000.

TABLE B-3. Undergraduate enrollment at 2-year institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1994–2000

Race/ethnicity, citizenship, sex, and status	1994	1995	1996	1997	1998	2000
All enrolled	5,499,378	5,459,520	5,476,207	5,467,043	5,660,726	6,155,335
White	3,820,766	3,752,368	3,709,054	3,661,025	3,626,533	3,783,564
Asian/Pacific Islander	318,042	319,542	327,999	340,358	414,967	382,683
Black	609,499	615,301	626,426	638,096	696,898	738,669
Hispanic	595,490	619,649	655,955	680,791	748,375	808,209
American Indian/Alaskan Native	63,361	63,363	64,373	65,469	118,237	68,212
Other or unknown race/ethnicity	0	0	0	0	0	284,683
Temporary resident	92,220	89,297	92,400	81,304	55,716	89,315
Female	3,180,990	3,135,856	3,127,029	3,125,466	3,256,443	3,363,260
White	2,212,780	2,150,761	2,107,152	2,079,042	2,064,169	2,025,831
Asian/Pacific Islander	163,251	164,442	169,229	176,758	222,019	200,015
Black	385,409	387,084	392,171	399,051	440,596	448,863
Hispanic	335,020	350,076	372,396	388,636	430,151	453,694
American Indian/Alaskan Native	37,669	37,380	37,868	38,564	70,671	39,795
Other or unknown race/ethnicity	0	0	0	0	0	148,193
Temporary resident	46,861	46,113	48,213	43,415	28,837	46,869
Male	2,318,388	2,323,664	2,349,178	2,341,577	2,404,283	2,792,075
White	1,607,986	1,601,607	1,601,902	1,581,983	1,562,364	1,757,733
Asian/Pacific Islander	154,791	155,100	158,770	163,600	192,948	182,668
Black	224,090	228,217	234,255	239,045	256,302	289,806
Hispanic	260,470	269,573	283,559	292,155	318,224	354,515
American Indian/Alaskan Native	25,692	25,983	26,505	26,905	47,566	28,417
Other or unknown race/ethnicity	0	0	0	0	0	136,490
Temporary resident	45,359	43,184	44,187	37,889	26,879	42,446
Full time	2,041,011	1,993,537	2,009,906	2,027,351	2,041,036	2,140,533
White	1,382,761	1,337,624	1,334,522	1,339,137	1,341,910	1,317,544
Asian/Pacific Islander	117,904	117,434	117,865	120,433	134,202	128,731
Black	244,657	239,700	247,673	251,566	255,414	260,166
Hispanic	218,992	224,517	234,178	241,164	247,668	265,709
American Indian/Alaskan Native	26,828	26,194	26,740	27,339	27,398	26,473
Other or unknown race/ethnicity	0	0	0	0	0	84,094
Temporary resident	49,869	48,068	48,928	47,712	34,444	57,816
Female	1,120,930	1,102,327	1,112,078	1,119,383	1,120,304	1,175,434
White	746,728	726,198	723,438	723,727	720,060	706,713
Asian/Pacific Islander	57,715	57,771	58,250	60,215	67,936	66,147
Black	152,126	150,091	154,832	154,850	156,706	159,683
Hispanic	124,547	129,270	135,619	140,878	142,773	156,060
American Indian/Alaskan Native	15,500	15,240	15,573	15,757	16,001	15,674
Other or unknown race/ethnicity	0	0	0	0	0	42,137
Temporary resident	24,314	23,757	24,366	23,956	16,828	29,020
Male	920,081	891,210	897,828	907,968	920,732	965,099
White	636,033	611,426	611,084	615,410	621,850	610,831
Asian/Pacific Islander	60,189	59,663	59,615	60,218	66,266	62,584
Black	92,531	89,609	92,841	96,716	98,708	100,483
Hispanic	94,445	95,247	98,559	100,286	104,895	109,649
American Indian/Alaskan Native	11,328	10,954	11,167	11,582	11,397	10,799
Other or unknown race/ethnicity	0	0	0	0	0	41,957
Temporary resident	25,555	24,311	24,562	23,756	17,616	28,796

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Until 1998, data on "other or unknown race/ethnicity" were distributed across other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1994–2000.



TABLE B-4. Undergraduate enrollment at 4-year institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1994–2000

Race/ethnicity, citizenship, sex, and status	1994	1995	1996	1997	1998	2000
All enrolled	6,918,323	6,940,306	6,948,363	6,991,413	7,089,335	7,280,588
White	5,096,004	5,053,834	5,022,403	5,023,473	5,064,506	4,876,370
Asian/Pacific Islander	365,466	381,286	393,774	404,941	418,875	408,748
Black	710,185	720,751	728,484	743,932	766,265	766,547
Hispanic	514,441	547,823	562,756	573,016	593,193	609,945
American Indian/Alaskan Native	54,073	57,365	58,570	61,722	63,292	60,504
Other or unknown race/ethnicity	0	0	0	0	0	364,708
Temporary resident	178,154	179,247	182,376	184,329	183,204	193,766
Female	3,752,369	3,796,600	3,821,921	3,865,154	3,935,428	4,055,408
White	2,740,590	2,737,099	2,733,399	2,746,935	2,777,466	2,681,771
Asian/Pacific Islander	184,297	194,302	201,804	208,614	217,465	214,663
Black	430,763	441,588	449,063	461,857	477,282	480,003
Hispanic	289,129	312,234	322,598	329,429	343,287	354,954
American Indian/Alaskan Native	31,115	33,125	34,067	35,976	37,020	35,857
Other or unknown race/ethnicity	0	0	0	0	0	199,220
Temporary resident	76,475	78,252	80,990	82,343	82,908	88,940
Male	3,165,954	3,143,706	3,126,442	3,126,259	3,153,907	3,225,180
White	2,355,414	2,316,735	2,289,004	2,276,538	2,287,040	2,194,599
Asian/Pacific Islander	181,169	186,984	191,970	196,327	201,410	194,085
Black	279,422	279,163	279,421	282,075	288,983	286,544
Hispanic	225,312	235,589	240,158	243,587	249,906	254,991
American Indian/Alaskan Native	22,958	24,240	24,503	25,746	26,272	24,647
Other or unknown race/ethnicity	0	0	0	0	0	165,488
Temporary resident	101,679	100,995	101,386	101,986	100,296	104,826
Full time	5,246,532	5,282,248	5,330,624	5,406,488	5,522,801	5,727,584
White	3,837,717	3,826,066	3,839,203	3,875,918	3,946,237	3,901,250
Asian/Pacific Islander	298,443	310,674	321,350	332,196	344,498	338,505
Black	532,441	538,959	547,695	560,544	577,231	580,106
Hispanic	385,729	411,599	423,164	432,812	449,968	456,303
American Indian/Alaskan Native	39,081	41,175	42,438	45,224	46,722	44,250
Other or unknown race/ethnicity	0	0	0	0	0	240,633
Temporary resident	153,121	153,775	156,774	159,794	158,145	166,537
Female	2,778,551	2,826,017	2,874,891	2,935,299	3,016,216	3,147,892
White	2,009,811	2,022,532	2,044,376	2,078,517	2,126,792	2,117,851
Asian/Pacific Islander	149,980	157,782	164,370	171,173	179,285	178,264
Black	315,963	322,734	330,890	340,914	352,393	355,173
Hispanic	216,469	233,729	242,608	248,570	260,354	265,903
American Indian/Alaskan Native	21,791	23,051	24,042	25,703	26,734	25,615
Other or unknown race/ethnicity	0	0	0	0	0	129,685
Temporary resident	64,537	66,189	68,605	70,422	70,658	75,401
Male	2,467,981	2,456,231	2,455,733	2,471,189	2,506,585	2,579,692
White	1,827,906	1,803,534	1,794,827	1,797,401	1,819,445	1,783,399
Asian/Pacific Islander	148,463	152,892	156,980	161,023	165,213	160,241
Black	216,478	216,225	216,805	219,630	224,838	224,933
Hispanic	169,260	177,870	180,556	184,242	189,614	190,400
American Indian/Alaskan Native	17,290	18,124	18,396	19,521	19,988	18,635
Other or unknown race/ethnicity	0	0	0	0	0	110,948
Temporary resident	88,584	87,586	88,169	89,372	87,487	91,136

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Until 1998, data on "other or unknown race/ethnicity" were distributed across other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1994–2001.

TABLE B-5. Undergraduate enrollment status, by sex, race/ethnicity, citizenship, institution control, and enrollment status: 2000

Sex, race/ethnicity, and citizenship	All institutions			Public			Private		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
All undergraduates	13,435,923	7,868,117	5,567,806	10,858,076	5,807,210	5,050,866	2,577,847	2,060,907	516,940
Female	7,418,668	4,323,326	3,095,342	5,964,599	3,179,920	2,784,679	1,454,069	1,143,406	310,663
Male	6,017,255	3,544,791	2,472,464	4,893,477	2,627,290	2,266,187	1,123,778	917,501	206,277
White	8,659,934	5,218,794	3,441,140	7,013,170	3,876,818	3,136,352	1,646,764	1,341,976	304,788
Female	4,707,602	2,824,564	1,883,038	3,786,014	2,086,322	1,699,692	921,588	738,242	183,346
Male	3,952,332	2,394,230	1,558,102	3,227,156	1,790,496	1,436,660	725,176	603,734	121,442
Asian/Pacific Islander	791,431	467,236	324,195	673,806	365,783	308,023	117,625	101,453	16,172
Female	414,678	244,411	170,267	351,183	189,549	161,634	63,495	54,862	8,633
Male	376,753	222,825	153,928	322,623	176,234	146,389	54,130	46,591	7,539
Black	1,505,216	840,272	664,944	1,224,235	625,433	598,802	280,981	214,839	66,142
Female	928,866	514,856	414,010	753,497	384,181	369,316	175,369	130,675	44,694
Male	576,350	325,416	250,934	470,738	241,252	229,486	105,612	84,164	21,448
Hispanic	1,418,154	722,012	696,142	1,169,016	530,373	638,643	249,138	191,639	57,499
Female	808,648	421,963	386,685	665,145	311,155	353,990	143,503	110,808	32,695
Male	609,506	300,049	309,457	503,871	219,218	284,653	105,635	80,831	24,804
American Indian/Alaskan Native	128,716	70,723	57,993	111,760	58,404	53,356	16,956	12,319	4,637
Female	75,652	41,289	34,363	65,730	34,208	31,522	9,922	7,081	2,841
Male	53,064	29,434	23,630	46,030	24,196	21,834	7,034	5,238	1,796
Other or unknown race/ethnicity	649,391	324,727	324,664	468,725	202,846	265,879	180,666	121,881	58,785
Female	347,413	171,822	175,591	247,156	105,360	141,796	100,257	66,462	33,795
Male	301,978	152,905	149,073	221,569	97,486	124,083	80,409	55,419	24,990
Temporary resident	283,081	224,353	58,728	197,364	147,553	49,811	85,717	76,800	8,917
Female	135,809	104,421	31,388	95,874	69,145	26,729	39,935	35,276	4,659
Male	147,272	119,932	27,340	101,490	78,408	23,082	45,782	41,524	4,258

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 2000.

TABLE B-6. Disability status of undergraduate students, by age, institution type, financial aid, and enrollment status: 2000

(Percent)

Age, institution type, financial aid, and status	All		
	undergraduates	No disability	With disability
All undergraduates	100.0	89.4	10.6
Age (years)			
18 and younger	9.5	9.8	6.8
19–23	47.6	48.8	37.6
24–29	16.9	17.1	16.1
30–39	13.8	13.3	17.7
40 and older	12.2	11.0	21.7
Institution type			
4-year	46.5	47.2	40.1
2-year	44.6	43.9	50.7
Less than 2-year	2.7	2.6	3.3
More than one institution	6.2	6.2	5.9
Financial aid	57.9	57.4	62.1
Grants only	41.7	42.2	37.7
Loans only	12.5	12.6	11.5
Work study only	0.4	0.4	0.1
Grants and loans	24.7	24.8	24.1
Grants and work study	2.1	2.1	2.2
Loans and work study	0.5	0.5	0.4
Grants, loans, and work study	5.4	5.5	4.5
Other only	3.4	3.0	6.6
Other combination	9.3	8.9	12.8
Enrollment status			
Full time			
Full year			
One institution	37.4	38.0	32.3
More than one institution	2.9	3.0	2.6
Part year	13.3	13.1	15.5
Part time			
Full year			
One institution	20.9	20.7	22.5
More than one institution	1.5	1.5	1.3
Part year	24.0	23.8	25.8

NOTES: For disability status, those who reported any type of disability related to blindness, deafness, severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more were classified as "with disability." Financial aid data sum to more than 100 percent because respondents could select more than one response.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

TABLE B-7. Major field of study of undergraduates, by disability status: 2000  
(Percent)

Major field of study	All		
	undergraduates	No disability	With disability
All fields	100.0	100.0	100.0
Business/management	19.3	19.5	17.3
Education	8.7	8.7	8.2
Health	10.4	10.5	9.1
Humanities	15.7	15.6	17.1
S&E	30.8	30.6	32.2
Computer/information sciences	8.6	8.4	10.5
Engineering	6.0	6.1	5.0
Life sciences	5.1	5.2	4.5
Mathematics	0.7	0.7	0.6
Physical sciences	1.2	1.2	1.0
Social/behavioral sciences	9.2	9.0	10.6
Vocational/technical <sup>1</sup>	5.7	5.7	5.4
Other technical/professional <sup>2</sup>	9.6	9.5	10.7

<sup>1</sup>Includes industrial arts, mechanics technology, precision production, protective services, and transportation.

<sup>2</sup>Includes agriculture, agricultural science, architecture, basic/personal skills, city planning, communications, communications technology, cosmetology, dental/medical technology, home economics, journalism, law, and military science.

NOTE: For disability status, those who reported any type of disability related to blindness, deafness, severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more were classified as "with disability."

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

TABLE B-8. Intentions of freshmen to major in S&E fields, by race/ethnicity and sex: 2002  
(Percent)

Race/ethnicity and sex	All S&E majors	Biological/ agricultural sciences	Computer sciences	Engineering	Mathematics/ statistics	Physical sciences	Social/ behavioral sciences
White	30.5	7.0	2.0	9.2	0.8	2.1	9.4
Female	23.8	7.6	0.4	2.5	0.7	1.5	11.1
Male	37.9	6.2	3.8	17.0	0.9	2.8	7.2
Asian/Pacific Islander	42.1	11.9	3.5	15.9	0.8	1.9	8.1
Female	33.1	13.5	1.2	6.1	0.8	1.6	9.9
Male	53.0	10.2	6.1	27.5	0.9	2.2	6.1
Black	34.2	8.4	3.5	8.6	0.5	1.2	12.0
Female	31.9	10.0	1.9	3.7	0.5	1.3	14.5
Male	38.0	5.8	6.0	16.5	0.4	1.3	8.0
Chicano/Puerto Rican	34.1	8.2	1.8	8.6	0.7	1.6	13.2
Female	30.6	9.2	0.5	2.2	0.5	1.5	16.7
Male	39.4	6.8	3.8	18.1	1.0	1.8	7.9
Other Hispanic	34.7	7.8	1.8	8.9	0.7	1.6	13.9
Female	30.9	8.3	0.7	3.2	0.6	1.5	16.6
Male	40.8	6.9	3.4	17.6	0.9	2.0	10.0
American Indian/Alaskan Native	31.0	7.9	1.8	7.5	0.6	1.7	11.5
Female	27.2	8.8	0.5	2.8	0.4	1.4	13.3
Male	37.6	6.1	4.0	15.9	0.8	2.2	8.6

NOTE: Includes first-year students at all 4-year colleges.

SOURCE: Higher Education Research Institute, University of California at Los Angeles, Survey of the American Freshman, special tabulations (Los Angeles, CA, 2002).

TABLE B-9. Undergraduate enrollment in engineering programs, by sex, race/ethnicity, and citizenship: 1994–2002

Year and status	All undergraduates	Female	Male	U.S. citizen/permanent resident					
				White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Temporary resident
Number									
All enrolled									
1994	367,298	66,655	300,643	256,287	37,009	24,994	25,216	2,028	21,764
1995	363,315	67,286	296,029	249,896	38,329	25,569	25,998	2,103	21,420
1996	356,177	67,618	288,559	243,270	37,873	24,922	26,483	2,396	21,233
1997	365,358	70,765	294,593	246,950	39,475	24,809	30,580	2,422	21,122
1998	366,991	72,383	294,598	248,439	40,523	25,699	28,802	2,418	21,110
1999	361,395	71,376	290,019	243,560	39,891	25,419	29,111	2,396	21,018
2000	390,803	76,027	314,776	263,931	44,652	26,096	31,107	2,385	22,632
2001	409,557	78,468	331,089	275,248	47,937	27,442	31,482	2,458	24,990
2002	421,178	77,952	343,226	286,246	49,696	26,433	33,311	2,362	23,130
Full-time, first-year undergraduate									
1994	85,047	16,502	68,545	59,455	7,673	7,372	6,157	617	3,773
1995	86,299	17,197	69,102	59,864	7,767	7,890	6,500	601	3,677
1996	85,375	17,000	68,375	58,929	7,997	7,482	6,602	656	3,709
1997	90,882	17,943	72,943	61,882	9,125	7,403	7,757	688	4,027
1998	94,909	18,628	76,281	65,578	9,509	8,028	7,018	719	4,057
1999	93,951	18,032	75,919	64,472	9,570	7,989	7,070	676	4,174
2000	101,773	19,257	82,516	69,566	11,091	8,192	7,571	629	4,724
2001	106,825	19,509	87,316	72,848	11,446	8,552	7,715	663	5,601
2002	107,086	18,447	88,639	74,710	11,157	8,108	7,991	656	4,464
Percent									
All enrolled									
1994	100	18.1	81.9	69.8	10.1	6.8	6.9	0.6	5.9
1995	100	18.5	81.5	68.8	10.5	7.0	7.2	0.6	5.9
1996	100	19.0	81.0	68.3	10.6	7.0	7.4	0.7	6.0
1997	100	19.4	80.6	67.6	10.8	6.8	8.4	0.7	5.8
1998	100	19.7	80.3	67.7	11.0	7.0	7.8	0.7	5.8
1999	100	19.8	80.2	67.4	11.0	7.0	8.1	0.7	5.8
2000	100	19.5	80.5	67.5	11.4	6.7	8.0	0.6	5.8
2001	100	19.2	80.8	67.2	11.7	6.7	7.7	0.6	6.1
2002	100	18.5	81.5	68.0	11.8	6.3	7.9	0.6	5.5
Full-time, first-year undergraduate									
1994	100	19.4	80.6	69.9	9.0	8.7	7.2	0.7	4.4
1995	100	19.9	80.1	69.4	9.0	9.1	7.5	0.7	4.3
1996	100	19.9	80.1	69.0	9.4	8.8	7.7	0.8	4.3
1997	100	19.7	80.3	68.1	10.0	8.1	8.5	0.8	4.4
1998	100	19.6	80.4	69.1	10.0	8.5	7.4	0.8	4.3
1999	100	19.2	80.8	68.6	10.2	8.5	7.5	0.7	4.4
2000	100	18.9	81.1	68.4	10.9	8.0	7.4	0.6	4.6
2001	100	18.3	81.7	68.2	10.7	8.0	7.2	0.6	5.2
2002	100	17.2	82.8	69.8	10.4	7.6	7.5	0.6	4.2

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2002* (Washington, DC, 2003).

TABLE B-10. Undergraduate enrollment in engineering programs, by sex, race/ethnicity, and citizenship: 2002

Sex and status	U.S. citizen/permanent resident							
	All undergraduates	Total	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Temporary resident
	Number							
All enrolled	421,178	398,048	286,246	49,696	26,433	33,311	2,362	23,130
Male	343,226	324,757	240,397	38,223	18,427	25,854	1,856	18,469
Female	77,952	73,291	45,849	11,473	8,006	7,457	506	4,661
Full time, first year	107,086	102,622	74,710	11,157	8,108	7,991	656	4,464
Male	88,639	85,092	63,559	8,879	5,770	6,368	516	3,547
Female	18,447	17,530	11,151	2,278	2,338	1,623	140	917
	Percent distribution							
All enrolled	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	81.5	81.6	84.0	76.9	69.7	77.6	78.6	79.8
Female	18.5	18.4	16.0	23.1	30.3	22.4	21.4	20.2
Full time, first year	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	82.8	82.9	85.1	79.6	71.2	79.7	78.7	79.5
Female	17.2	17.1	14.9	20.4	28.8	20.3	21.3	20.5

NOTE: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2002* (Washington, DC, 2003).

TABLE C-1. Associate's degrees, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	2000	2001
All fields	546,574	544,094	540,644	546,031	549,191	543,876	552,046
S&E	75,132	70,590	67,820	68,328	71,006	78,224	82,102
Sciences	22,737	21,943	22,552	23,883	26,539	31,921	36,272
Agricultural sciences	1,938	1,910	1,895	1,865	2,007	1,943	2,083
Biological sciences	1,907	1,901	2,074	2,181	2,176	1,468	1,519
Computer sciences	9,868	9,627	9,401	10,632	12,899	18,928	23,106
Earth, atmospheric, and ocean sciences	226	186	189	191	180	174	181
Atmospheric	119	107	97	95	105	92	103
Earth	44	28	47	51	38	28	35
Ocean	63	51	45	45	37	54	43
Mathematics/statistics	766	783	759	793	843	670	692
Physical sciences	1,413	1,459	1,560	1,540	1,518	1,271	1,136
Astronomy	0	0	0	1	0	1	1
Chemistry	336	293	306	314	299	301	183
Physics	88	98	102	92	111	106	118
Other	989	1,068	1,152	1,133	1,108	863	834
Psychology	1,756	1,600	1,584	1,606	1,760	1,445	1,538
Social sciences	4,863	4,477	5,090	5,075	5,156	6,022	6,017
Anthropology	75	66	70	77	132	51	77
Area and ethnic studies	91	63	100	87	104	244	297
Economics	196	142	194	188	219	210	209
Political science/public administration	1,158	1,132	1,355	1,344	1,217	1,023	911
Sociology	317	364	494	504	573	365	370
Other	3,026	2,710	2,877	2,875	2,911	4,129	4,153
Engineering	2,844	2,285	2,048	1,888	2,107	1,730	1,791
Aerospace	6	2	2	1	0	1	0
Chemical	16	16	13	7	8	13	18
Civil	85	80	126	110	130	58	53
Electrical	410	257	190	179	382	239	224
Industrial	136	103	99	81	77	67	132
Materials	29	8	5	5	13	11	14
Mechanical	86	104	73	58	82	77	67
Other	2,076	1,715	1,540	1,447	1,415	1,264	1,283
Technologies	43,829	40,524	37,503	36,670	36,597	37,491	37,586
Engineering	42,414	39,190	35,982	35,221	35,163	35,544	35,413
Science	1,150	970	965	893	800	1,241	1,233
Other	265	364	556	556	634	706	940
Interdisciplinary/other sciences	5,722	5,838	5,717	5,887	5,763	7,082	6,453
Non-S&E	471,442	473,504	472,824	477,703	478,185	465,652	469,944
Female							
All fields	324,327	324,390	327,554	333,333	333,303	327,720	332,035
S&E	21,718	20,352	21,070	22,173	22,931	26,670	27,991
Sciences	10,912	10,344	10,989	11,685	12,644	15,138	16,515
Agricultural sciences	705	610	645	669	740	784	781
Biological sciences	1,137	1,144	1,244	1,392	1,383	974	1,022
Computer sciences	4,921	4,631	4,539	4,912	5,762	8,201	9,565
Earth, atmospheric, and ocean sciences	64	38	58	65	52	58	58
Atmospheric	23	16	17	21	28	21	26
Earth	12	7	21	21	15	16	10
Ocean	29	15	20	23	9	21	22
Mathematics/statistics	329	345	295	349	353	263	243
Physical sciences	630	686	730	807	811	671	552
Chemistry	145	154	156	159	182	175	84
Physics	20	11	18	18	24	30	25
Other	465	521	556	630	605	466	443



TABLE C-1. Associate's degrees, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	2000	2001
Psychology	1,323	1,154	1,179	1,230	1,157	1,119	1,183
Social sciences	3,079	2,852	3,434	3,440	3,460	4,157	4,247
Anthropology	47	38	44	51	83	30	47
Area and ethnic studies	57	46	75	56	77	191	254
Economics	85	59	89	84	100	94	95
Political science/public administration	735	767	978	1,009	888	773	707
Sociology	238	264	368	353	424	276	266
Other	1,917	1,678	1,880	1,887	1,888	2,793	2,878
Engineering	370	307	269	271	323	238	297
Aerospace	1	0	1	0	0	0	0
Chemical	8	3	0	3	2	3	2
Civil	14	23	32	28	41	20	19
Electrical	35	19	19	19	33	24	24
Industrial	31	16	16	6	13	15	17
Materials	1	2	0	1	1	1	3
Mechanical	7	6	5	4	9	8	7
Other	273	238	196	210	224	167	225
Technologies	5,982	5,374	5,455	5,660	5,632	6,009	6,275
Science	447	347	378	394	374	472	499
Engineering	5,515	4,994	5,035	5,231	5,214	5,465	5,666
Other	20	33	42	35	44	72	110
Interdisciplinary/other sciences	3,178	3,211	3,222	3,378	3,258	4,196	3,768
Non-S&E	302,609	304,038	306,484	311,160	310,372	301,050	304,044
<b>Male</b>							
All fields	222,247	219,704	213,090	212,698	215,888	216,156	220,011
S&E	53,414	50,238	46,750	46,155	48,075	51,554	54,111
Sciences	10,549	10,483	10,428	11,019	12,821	15,694	18,621
Agricultural sciences	1,233	1,300	1,250	1,196	1,267	1,159	1,302
Biological sciences	770	757	830	789	793	494	497
Computer sciences	4,947	4,996	4,862	5,720	7,137	10,727	13,541
Earth, atmospheric, and ocean sciences	162	148	131	126	128	116	123
Atmospheric	96	91	80	74	77	71	77
Earth	32	21	26	30	23	12	25
Ocean	34	36	25	22	28	33	21
Mathematics/statistics	437	438	464	444	490	407	449
Physical sciences	783	773	830	733	707	600	584
Astronomy	0	0	0	1	0	1	1
Chemistry	191	139	150	155	117	126	99
Physics	68	87	84	74	87	76	93
Other	524	547	596	503	503	397	391
Psychology	433	446	405	376	603	326	355
Social sciences	1,784	1,625	1,656	1,635	1,696	1,865	1,770
Anthropology	28	28	26	26	49	21	30
Area/ethnic studies	34	17	25	31	27	53	43
Economics	111	83	105	104	119	116	114
Political science/public administration	423	365	377	335	329	250	204
Sociology	79	100	126	151	149	89	104
Other	1,109	1,032	997	988	1,023	1,336	1,275
Engineering	2,474	1,978	1,779	1,617	1,784	1,492	1,494
Aerospace	5	2	1	1	0	1	0
Chemical	8	13	13	4	6	10	16
Civil	71	57	94	82	89	38	34
Electrical	375	238	171	160	349	215	200
Industrial	105	87	83	75	64	52	115
Materials	28	6	5	4	12	10	11

TABLE C-1. Associate's degrees, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	2000	2001
Mechanical	79	98	68	54	73	69	60
Other	1,803	1,477	1,344	1,237	1,191	1,097	1,058
Technologies	37,847	35,150	32,048	31,010	30,965	31,482	31,311
Engineering	36,899	34,196	30,947	29,990	29,949	30,079	29,747
Science	703	623	587	499	426	769	734
Other	245	331	514	521	590	634	830
Interdisciplinary/other sciences	2,544	2,627	2,495	2,509	2,505	2,886	2,685
Non-S&E	168,833	169,466	166,340	166,543	167,813	164,602	165,900

NOTES: Unlike other degrees tables, S&E total here includes degrees in S&E technologies. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
All fields	546,574	544,094	540,644	546,031	549,191	543,876	552,046
S&E	74,832	70,590	67,820	68,328	71,006	78,224	82,102
Sciences	22,344	21,943	22,552	23,883	26,539	31,921	36,272
Agricultural sciences	2,247	1,910	1,895	1,865	2,007	1,943	2,083
Biological sciences	1,907	1,901	2,074	2,181	2,176	1,468	1,519
Computer sciences	9,767	9,627	9,401	10,632	12,899	18,928	23,106
Mathematics	765	783	759	793	843	670	692
Physical sciences	1,639	1,645	1,749	1,731	1,698	1,445	1,317
Psychology	1,756	1,600	1,584	1,606	1,760	1,445	1,538
Social sciences	4,263	4,477	5,090	5,075	5,156	6,022	6,017
Engineering	2,828	2,285	2,048	1,888	2,107	1,730	1,791
Technologies	41,194	40,524	37,503	36,670	36,597	37,491	37,586
Engineering	39,889	39,190	35,982	35,221	35,163	35,544	35,413
Science	1,040	970	965	893	800	1,241	1,233
Other	265	364	556	556	634	706	940
Interdisciplinary/other sciences	8,466	5,838	5,717	5,887	5,763	7,082	6,453
Non-S&E	471,742	473,504	472,824	477,703	478,185	465,652	469,944
U.S. citizen/permanent resident							
All fields	536,405	534,183	530,622	535,432	537,146	533,982	540,911
S&E	73,653	69,395	66,665	67,041	69,255	76,993	80,232
Sciences	21,726	21,316	21,884	23,191	25,719	31,165	35,285
Agricultural sciences	2,202	1,892	1,877	1,846	1,956	1,920	2,037
Biological sciences	1,851	1,824	2,014	2,103	2,094	1,441	1,484
Computer sciences	9,524	9,367	9,157	10,370	12,564	18,462	22,460
Mathematics	726	744	711	749	794	637	650
Physical sciences	1,583	1,566	1,663	1,637	1,623	1,389	1,280
Psychology	1,732	1,581	1,552	1,567	1,702	1,423	1,513
Social sciences	4,108	4,342	4,910	4,919	4,986	5,893	5,861
Engineering	2,739	2,208	1,978	1,821	1,974	1,662	1,695
Technologies	40,776	40,079	37,143	36,202	35,855	37,154	36,895
Engineering	39,475	38,764	35,631	34,761	34,435	35,215	34,742
Science	1,036	956	956	885	786	1,233	1,213
Other	265	359	556	556	634	706	940
Interdisciplinary/other sciences	8,412	5,792	5,660	5,827	5,707	7,012	6,357
Non-S&E	462,752	464,788	463,957	468,391	467,891	456,989	460,679
White							
All fields	419,962	408,126	403,072	400,307	396,735	380,777	378,041
S&E	25,598	22,216	22,122	22,630	24,384	27,871	55,470
Sciences	15,676	14,734	14,831	15,472	16,977	19,856	22,768
Agricultural sciences	1,959	1,633	1,696	1,680	1,768	1,718	1,824
Biological sciences	1,304	1,197	1,356	1,310	1,304	930	979
Computer sciences	6,636	6,471	6,270	7,052	8,473	11,821	14,438
Mathematics	497	479	439	492	501	379	358
Physical sciences	1,230	1,180	1,183	1,159	1,107	949	909
Psychology	1,321	1,146	1,094	1,087	1,068	952	1,005
Social sciences	2,729	2,628	2,793	2,692	2,756	3,107	3,255
Engineering	2,133	1,658	1,502	1,363	1,438	1,126	1,202
Technologies	1,005	958	1,166	1,095	1,100	1,479	1,616
Engineering	31,457	29,646	27,506	26,522	26,208	25,643	24,999
Science	794	683	709	648	577	908	871
Other	211	275	457	447	523	571	745
Interdisciplinary/other sciences	6,784	4,866	4,623	4,700	4,869	5,410	4,885
Non-S&E	394,364	385,910	380,950	377,677	372,351	352,906	322,571
Asian/Pacific Islander							
All fields	18,555	20,976	22,630	23,882	23,909	25,654	25,780
S&E	1,665	1,728	1,928	2,153	2,189	2,856	4,683

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Sciences	1,099	1,240	1,379	1,552	1,718	2,224	2,372
Agricultural sciences	10	10	4	4	8	19	9
Biological sciences	172	190	216	264	248	109	94
Computer sciences	489	513	516	661	820	1,381	1,651
Mathematics	77	93	104	87	100	90	106
Physical sciences	122	129	165	180	173	146	81
Psychology	37	57	57	63	53	51	53
Social sciences	192	248	317	293	316	428	378
Engineering	184	152	146	148	166	160	130
Technologies	35	69	80	91	37	48	40
Engineering	1,258	1,458	1,464	1,586	1,521	1,752	1,725
Science	35	56	58	67	37	45	35
Other	0	13	22	24	0	3	5
Interdisciplinary/other sciences	347	267	323	362	268	424	416
Non-S&E	16,890	19,248	20,702	21,729	21,720	22,798	21,097
<b>Black</b>							
All fields	45,597	45,923	49,245	51,588	52,957	55,154	57,851
S&E	6,112	5,844	5,997	6,187	6,501	7,852	8,379
Sciences	1,890	2,159	2,277	2,446	2,747	3,733	4,247
Agricultural sciences	20	23	18	11	9	18	3
Biological sciences	96	147	114	140	155	137	127
Computer sciences	1,081	1,046	1,104	1,182	1,531	2,445	3,035
Mathematics	39	45	36	37	33	36	50
Physical sciences	90	103	112	105	126	98	89
Psychology	149	126	147	125	111	135	142
Social sciences	415	669	746	846	782	864	801
Engineering	179	148	134	131	109	123	104
Technologies	3,325	3,122	3,167	3,156	3,325	3,566	3,652
Engineering	3,197	3,015	2,989	2,982	3,156	3,321	3,372
Science	91	72	103	91	83	146	155
Other	37	35	75	83	86	99	125
Interdisciplinary or other sciences	718	415	419	454	320	430	376
Non-S&E	39,485	40,079	43,248	45,401	46,456	47,302	49,472
<b>Hispanic</b>							
All fields	35,557	38,499	39,115	42,784	45,452	50,488	54,333
S&E	5,293	5,593	5,581	5,818	6,001	7,869	8,109
Sciences	2,181	2,337	2,410	2,661	2,907	3,690	3,945
Agricultural sciences	109	136	89	75	85	77	109
Biological sciences	203	208	221	276	289	183	220
Computer sciences	989	1,035	928	1,065	1,299	2,033	2,154
Mathematics	85	99	108	110	120	97	99
Physical sciences	92	80	109	110	122	107	114
Psychology	154	193	179	209	180	192	218
Social sciences	549	586	776	816	812	1,001	1,031
Engineering	148	161	132	112	196	178	186
Technologies	2,569	2,896	2,800	2,789	2,683	3,403	3,510
Science	87	91	57	59	61	107	125
Engineering	2,478	2,777	2,742	2,728	2,621	3,283	3,369
Other	4	28	1	2	1	13	16
Interdisciplinary/other sciences	395	199	239	256	215	598	468
Non-S&E	30,264	32,906	33,534	36,966	39,451	42,619	46,224
<b>American Indian/Alaskan Native</b>							
All fields	4,879	5,352	5,221	5,520	6,161	5,697	5,758
S&E	735	741	765	716	840	845	807
Sciences	401	397	455	430	478	508	485
Agricultural sciences	69	54	42	54	64	67	48

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Biological sciences	36	40	42	46	37	37	32
Computer sciences	105	111	129	120	148	188	208
Mathematics	11	13	9	2	13	7	12
Physical sciences	20	23	26	21	33	13	17
Psychology	38	35	42	38	37	38	34
Social sciences	122	121	165	149	146	158	134
Engineering	18	22	11	25	22	17	16
Technologies	269	299	272	239	324	283	265
Engineering	263	286	269	236	286	273	253
Science	6	10	2	3	14	9	9
Other	0	3	1	0	24	1	3
Interdisciplinary or other sciences	47	23	27	22	16	37	41
Non-S&E	4,144	4,611	4,456	4,804	5,321	4,852	4,951
Other or unknown race/ethnicity							
All fields	11,855	15,307	11,339	11,351	11,932	16,212	19,148
S&E	713	587	641	722	968	1,362	2,784
Sciences	479	449	532	630	892	1,154	1,468
Agricultural sciences	35	36	28	22	22	21	44
Biological sciences	40	42	65	67	61	45	32
Computer sciences	224	191	210	290	293	594	974
Mathematics	17	15	15	21	27	28	25
Physical sciences	29	51	68	62	62	76	70
Psychology	33	24	33	45	253	55	61
Social sciences	101	90	113	123	174	335	262
Engineering	77	67	53	42	43	58	57
Technologies	36	49	27	17	14	37	64
Engineering	822	1,582	661	707	643	943	1,024
Science	23	44	27	17	14	18	18
Other	13	5	0	0	0	19	46
Interdisciplinary/other sciences	121	22	29	33	19	113	171
Non-S&E	11,142	14,720	10,698	10,629	10,964	14,850	16,364
Temporary resident							
All fields	10,169	9,911	10,022	10,599	12,045	9,894	11,135
S&E	1,179	1,195	1,155	1,287	1,751	1,231	1,870
Sciences	618	627	668	692	820	756	987
Agricultural sciences	45	18	18	19	51	23	46
Biological sciences	56	77	60	78	82	27	35
Computer sciences	243	260	244	262	335	466	646
Mathematics	39	39	48	44	49	33	42
Physical sciences	56	79	86	94	75	56	37
Psychology	24	19	32	39	58	22	25
Social sciences	155	135	180	156	170	129	156
Engineering	89	77	70	67	133	68	96
Technologies	418	445	360	468	742	337	691
Engineering	414	426	351	460	728	329	671
Science	4	14	9	8	14	8	20
Other	0	5	0	0	0	0	0
Interdisciplinary/other sciences	54	46	57	60	56	70	96
Non-S&E	8,990	8,716	8,867	9,312	10,294	8,663	9,265

NOTES: Unlike other degree tables, S&E total here includes degrees in S&E technologies. Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, the 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in the social sciences in 1994 but is included in non-S&E from 1995 on. Temporary resident includes all racial/ethnic groups. Data were not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-3. S&amp;E associate's degrees, by sex, citizenship, race/ethnicity, and field: 2001

Sex, citizenship, and race/ethnicity	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering	Technologies			Inter-disciplinary/ other sciences
											Engineering	Science	Other	
All degrees	82,102	36,272	2,083	1,519	23,106	692	1,317	1,538	6,017	1,791	35,413	1,233	940	6,453
Female	27,991	17,651	781	1,022	9,565	243	610	1,183	4,247	297	5,666	499	110	3,768
Male	54,111	18,621	1,302	497	13,541	449	707	355	1,770	1,494	29,747	734	830	2,685
U.S. citizen/permanent resident	80,232	35,285	2,037	1,484	22,460	650	1,280	1,513	5,861	1,695	34,742	1,213	940	6,357
Female	27,257	17,139	760	999	9,246	229	595	1,166	4,144	273	5,523	490	110	3,722
Male	52,975	18,146	1,277	485	13,214	421	685	347	1,717	1,422	29,219	723	830	2,635
White	55,470	22,768	1,824	979	14,438	358	909	1,005	3,255	1,202	24,999	871	745	4,885
Female	17,718	10,456	685	664	5,480	127	418	781	2,301	182	3,826	341	81	2,832
Male	37,752	12,312	1,139	315	8,958	231	491	224	954	1,020	21,173	530	664	2,053
Asian/Pacific Islander	4,683	2,372	9	94	1,651	106	81	53	378	130	1,725	35	5	416
Female	1,669	1,124	5	60	698	35	45	36	245	25	256	20	2	242
Male	3,014	1,248	4	34	953	71	36	17	133	105	1,469	15	3	174
Black	8,379	4,247	3	127	3,035	50	89	142	801	104	3,372	155	125	376
Female	3,520	2,465	2	82	1,605	19	48	109	600	15	712	75	16	237
Male	4,859	1,782	1	45	1,430	31	41	33	201	89	2,660	80	109	139
Hispanic	8,109	3,945	109	220	2,154	99	114	218	1,031	186	3,369	125	16	468
Female	3,005	2,164	39	146	996	34	47	164	738	32	491	42	4	272
Male	5,104	1,781	70	74	1,158	65	67	54	293	154	2,878	83	12	196
American Indian/Alaskan Native	807	485	48	32	208	12	17	34	134	16	253	9	3	41
Female	378	290	11	25	114	4	7	27	102	3	52	4	1	28
Male	429	195	37	7	94	8	10	7	32	13	201	5	2	13
Other or unknown race/ethnicity	2,784	1,468	44	32	974	25	70	61	262	57	1,024	18	46	171
Female	967	640	18	22	353	10	30	49	158	16	186	8	6	111
Male	1,817	828	26	10	621	15	40	12	104	41	838	10	40	60
Temporary resident	1,870	987	46	35	646	42	37	25	156	96	671	20	0	96
Female	734	512	21	23	319	14	15	17	103	24	143	9	0	46
Male	1,136	475	25	12	327	28	22	8	53	72	528	11	0	50

NOTES: Unlike other degree tables, S&E total here includes degrees in S&E technologies. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2001.

TABLE C-4. Bachelor's degrees, by sex and field: 1994–2001

Sex and year	All fields	S&E	Sciences	Biological/ agricultural sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics/ statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
Both sexes												
1994	1,183,141	373,261	310,249	65,268	24,553	3,868	14,632	14,655	69,768	117,505	63,012	809,880
1995	1,174,436	378,148	314,777	71,470	24,769	4,478	13,851	14,897	72,601	112,711	63,371	796,288
1996	1,179,815	384,674	321,560	78,469	24,545	4,457	13,076	15,396	73,828	111,789	63,114	795,141
1997	1,186,589	388,482	326,130	82,500	25,393	4,466	12,723	15,264	74,734	111,050	62,352	798,107
1998	1,199,579	390,618	329,704	85,079	27,674	4,321	12,094	15,273	74,457	110,806	60,914	808,961
2000	1,253,121	398,622	339,086	83,148	37,388	4,047	11,735	14,580	74,654	113,534	59,536	854,499
2001	1,257,648	400,206	340,948	79,556	43,184	3,968	11,455	14,163	74,168	114,454	59,258	857,442
Female												
1994	646,080	170,977	160,574	31,921	7,020	1,203	6,768	5,067	51,019	57,576	10,403	475,103
1995	643,290	175,931	164,981	35,555	7,063	1,524	6,491	5,292	52,963	56,093	10,950	467,359
1996	651,815	181,333	170,017	39,369	6,772	1,485	5,992	5,702	53,863	56,834	11,316	470,482
1997	661,307	187,011	175,541	42,533	6,903	1,542	5,889	5,882	55,243	57,549	11,470	474,296
1998	673,865	190,397	179,058	44,844	7,439	1,599	5,659	5,994	55,400	58,123	11,339	483,468
2000	716,963	200,953	188,737	46,422	10,474	1,617	5,604	5,990	57,114	61,516	12,216	516,010
2001	721,625	202,583	190,669	45,575	11,900	1,622	5,497	5,911	57,467	62,697	11,914	519,042
Male												
1994	537,061	202,284	149,675	33,347	17,533	2,665	7,864	9,588	18,749	59,929	52,609	334,777
1995	531,146	202,217	149,796	35,915	17,706	2,954	7,360	9,605	19,638	56,618	52,421	328,929
1996	528,000	203,341	151,543	39,100	17,773	2,972	7,084	9,694	19,965	54,955	51,798	324,659
1997	525,282	201,471	150,589	39,967	18,490	2,924	6,834	9,382	19,491	53,501	50,882	323,811
1998	525,714	200,221	150,646	40,235	20,235	2,722	6,435	9,279	19,057	52,683	49,575	325,493
2000	536,158	197,669	150,349	36,726	26,914	2,430	6,131	8,590	17,540	52,018	47,320	338,489
2001	536,023	197,623	150,279	33,981	31,284	2,346	5,958	8,252	16,701	51,757	47,344	338,400
Percent												
Female												
1994	54.6	45.8	51.8	48.9	28.6	31.1	46.3	34.6	73.1	49.0	16.5	58.7
1995	54.8	46.5	52.4	49.7	28.5	34.0	46.9	35.5	73.0	49.8	17.3	58.7
1996	55.2	47.1	52.9	50.2	27.6	33.3	45.8	37.0	73.0	50.8	17.9	59.2
1997	55.7	48.1	53.8	51.6	27.2	34.5	46.3	38.5	73.9	51.8	18.4	59.4
1998	56.2	48.7	54.3	52.7	26.9	37.0	46.8	39.2	74.4	52.5	18.6	59.8
2000	57.2	50.4	55.7	55.8	28.0	40.0	47.8	41.1	76.5	54.2	20.5	60.4
2001	57.4	50.6	55.9	57.3	27.6	40.9	48.0	41.7	77.5	54.8	20.1	60.5

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-5. Bachelor's degrees, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	2000	2001
All fields	1,183,141	1,174,436	1,179,815	1,186,589	1,199,579	1,253,121	1,257,648
S&E	373,261	378,148	384,674	388,482	390,618	398,622	400,206
Sciences	310,249	314,777	321,560	326,130	329,704	339,086	340,948
Agricultural sciences	12,947	14,580	16,388	17,361	17,967	18,244	17,467
Biological sciences	52,321	56,890	62,081	65,139	67,112	64,904	62,089
Computer sciences	24,553	24,769	24,545	25,393	27,674	37,388	43,184
Earth, atmospheric, and ocean sciences	3,868	4,478	4,457	4,466	4,321	4,047	3,968
Atmospheric	405	444	434	431	443	490	456
Earth	3,266	3,820	3,838	3,830	3,665	3,359	3,334
Ocean	197	214	185	205	213	198	178
Mathematics/statistics	14,632	13,851	13,076	12,723	12,094	11,735	11,455
Physical sciences	14,655	14,897	15,396	15,264	15,273	14,580	14,163
Astronomy	163	169	148	140	168	160	240
Chemistry	9,641	10,016	10,713	10,926	10,873	10,390	9,822
Physics	4,005	3,836	3,703	3,393	3,455	3,362	3,457
Other	846	876	832	805	777	668	644
Psychology	69,768	72,601	73,828	74,734	74,457	74,654	74,168
Social sciences	117,505	112,711	111,789	111,050	110,806	113,534	114,454
Anthropology	5,632	5,806	6,389	6,759	6,894	7,057	6,898
Area/ethnic studies	5,098	5,176	5,197	5,257	5,441	5,617	5,561
Economics	20,945	19,083	17,896	17,701	18,244	19,400	20,377
History of science	22	29	21	31	39	92	101
Linguistics	611	564	619	577	680	727	757
Political science and public administration	45,610	41,978	39,928	37,807	36,654	36,439	36,651
Sociology	22,468	22,974	24,169	24,750	24,884	25,685	25,363
Other	17,119	17,101	17,570	18,168	17,970	18,517	18,746
Engineering	63,012	63,371	63,114	62,352	60,914	59,536	59,258
Aerospace	2,330	1,771	1,642	1,290	1,247	1,267	1,498
Chemical	5,636	6,391	6,708	6,977	6,721	6,219	6,088
Civil	10,603	11,329	12,053	12,010	11,522	9,596	8,949
Electrical	18,241	17,579	16,667	16,434	16,322	17,672	18,371
Industrial	3,453	3,519	3,727	3,997	3,988	3,937	3,818
Materials	1,106	1,046	1,004	1,063	1,007	972	930
Mechanical	15,297	15,141	14,509	13,806	13,363	13,109	13,160
Other	6,346	6,595	6,804	6,775	6,744	6,764	6,444
Female							
All fields	646,080	643,290	651,815	661,307	673,865	716,963	721,625
S&E	170,977	175,931	181,333	187,011	190,397	200,953	202,583
Sciences	160,574	164,981	170,017	175,541	179,058	188,737	190,669
Agricultural sciences	4,941	5,637	6,504	7,267	7,743	8,464	8,491
Biological sciences	26,980	29,918	32,865	35,266	37,101	37,958	37,084
Computer sciences	7,020	7,063	6,772	6,903	7,439	10,474	11,900
Earth, atmospheric, and ocean sciences	1,203	1,524	1,485	1,542	1,599	1,617	1,622
Atmospheric	76	82	86	83	104	114	132
Earth	1,072	1,364	1,334	1,385	1,403	1,409	1,400
Ocean	55	78	65	74	92	94	90
Mathematics/statistics	6,768	6,491	5,992	5,889	5,659	5,604	5,497
Physical sciences	5,067	5,292	5,702	5,882	5,994	5,990	5,911
Astronomy	46	52	55	46	58	54	95
Chemistry	3,969	4,233	4,622	4,883	4,973	4,907	4,775
Physics	710	675	684	652	666	724	756
Other	342	332	341	301	297	305	285
Psychology	51,019	52,963	53,863	55,243	55,400	57,114	57,467
Social sciences	57,576	56,093	56,834	57,549	58,123	61,516	62,697
Anthropology	3,576	3,689	4,058	4,313	4,480	4,742	4,706
Area/ethnic studies	3,151	3,094	3,217	3,256	3,441	3,572	3,657



TABLE C-5. Bachelor's degrees, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	2000	2001
Economics	6,135	5,848	5,372	5,448	5,791	6,384	6,924
History of science	6	15	9	17	18	52	56
Linguistics	438	411	438	393	483	498	512
Political science and public administration	20,474	18,968	18,350	17,854	17,320	18,347	18,637
Sociology	15,313	15,539	16,375	16,904	17,122	18,028	17,923
Other	8,483	8,529	9,015	9,364	9,468	9,893	10,282
Engineering	10,403	10,950	11,316	11,470	11,339	12,216	11,914
Aerospace	295	230	247	202	197	238	304
Chemical	1,683	2,024	2,171	2,276	2,196	2,203	2,055
Civil	1,984	2,298	2,424	2,569	2,576	2,333	2,041
Electrical	2,251	2,170	1,972	2,018	2,012	2,350	2,542
Industrial	1,014	1,026	1,097	1,079	1,020	1,307	1,224
Materials	240	247	223	259	235	268	263
Mechanical	1,743	1,700	1,736	1,635	1,636	1,784	1,739
Other	1,193	1,255	1,446	1,432	1,467	1,733	1,746
Male							
All fields	537,061	531,146	528,000	525,282	525,714	536,158	536,023
S&E	202,284	202,217	203,341	201,471	200,221	197,669	197,623
Sciences	149,675	149,796	151,543	150,589	150,646	150,349	150,279
Agricultural sciences	8,006	8,943	9,884	10,094	10,224	9,780	8,976
Biological sciences	25,341	26,972	29,216	29,873	30,011	26,946	25,005
Computer sciences	17,533	17,706	17,773	18,490	20,235	26,914	31,284
Earth, atmospheric, and ocean sciences	2,665	2,954	2,972	2,924	2,722	2,430	2,346
Atmospheric	329	362	348	348	339	376	324
Earth	2,194	2,456	2,504	2,445	2,262	1,950	1,934
Ocean	142	136	120	131	121	104	88
Mathematics/statistics	7,864	7,360	7,084	6,834	6,435	6,131	5,958
Physical sciences	9,588	9,605	9,694	9,382	9,279	8,590	8,252
Astronomy	117	117	93	94	110	106	145
Chemistry	5,672	5,783	6,091	6,043	5,900	5,483	5,047
Physics	3,295	3,161	3,019	2,741	2,789	2,638	2,701
Other	504	544	491	504	480	363	359
Psychology	18,749	19,638	19,965	19,491	19,057	17,540	16,701
Social sciences	59,929	56,618	54,955	53,501	52,683	52,018	51,757
Anthropology	2,056	2,117	2,331	2,446	2,414	2,315	2,192
Area/ethnic studies	1,947	2,082	1,980	2,001	2,000	2,045	1,904
Economics	14,810	13,235	12,524	12,253	12,453	13,016	13,453
History of science	16	14	12	14	21	40	45
Linguistics	173	153	181	184	197	229	245
Political science and public administration	25,136	23,010	21,578	19,953	19,334	18,092	18,014
Sociology	7,155	7,435	7,794	7,846	7,762	7,657	7,440
Other	8,636	8,572	8,555	8,804	8,502	8,624	8,464
Engineering	52,609	52,421	51,798	50,882	49,575	47,320	47,344
Aerospace	2,035	1,541	1,395	1,088	1,050	1,029	1,194
Chemical	3,953	4,367	4,537	4,701	4,525	4,016	4,033
Civil	8,619	9,031	9,629	9,441	8,946	7,263	6,908
Electrical	15,990	15,409	14,695	14,416	14,310	15,322	15,829
Industrial	2,439	2,493	2,630	2,918	2,968	2,630	2,594
Materials	866	799	781	804	772	704	667
Mechanical	13,554	13,441	12,773	12,171	11,727	11,325	11,421
Other	5,153	5,340	5,358	5,343	5,277	5,031	4,698

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
All recipients	1,183,141	1,174,436	1,179,815	1,186,589	1,199,579	1,253,121	1,257,648
S&E	395,380	378,148	384,674	388,482	390,618	398,622	400,206
Sciences	332,418	314,777	321,560	326,130	329,704	339,086	340,948
Agricultural sciences	13,165	14,580	16,388	17,361	17,967	18,244	17,467
Biological sciences	52,213	56,890	62,081	65,139	67,112	64,904	62,089
Computer sciences	24,458	24,769	24,545	25,393	27,674	37,388	43,184
Mathematics	14,431	13,851	13,076	12,723	12,094	11,735	11,455
Physical sciences	18,525	19,375	19,853	19,730	19,594	18,627	18,131
Psychology	69,768	72,601	73,828	74,734	74,457	74,654	74,168
Social sciences	139,858	112,711	111,789	111,050	110,806	113,534	114,454
Engineering	62,962	63,371	63,114	62,352	60,914	59,536	59,258
Non-S&E	787,761	796,288	795,141	798,107	808,961	854,499	857,442
U.S. citizen/permanent resident							
All fields	1,148,914	1,137,424	1,142,028	1,147,815	1,160,692	1,214,326	1,218,169
S&E	381,451	363,463	369,927	373,745	375,909	383,438	384,492
Sciences	323,029	304,902	311,576	316,190	319,638	328,435	329,653
Agricultural sciences	12,919	14,322	16,118	17,108	17,674	17,986	17,219
Biological sciences	51,058	55,607	60,714	63,677	65,689	63,528	60,652
Computer sciences	22,185	22,472	22,359	23,378	25,537	34,502	39,792
Mathematics	13,869	13,258	12,525	12,190	11,641	11,256	11,029
Physical sciences	17,812	18,652	19,167	19,059	18,919	18,049	17,524
Psychology	68,913	71,659	72,812	73,685	73,287	73,390	72,885
Social sciences	136,273	108,932	107,881	107,093	106,891	109,724	110,552
Engineering	58,422	58,561	58,351	57,555	56,271	55,003	54,839
Non-S&E	767,463	773,961	772,101	774,070	784,783	830,888	833,677
White							
All fields	918,124	892,785	884,128	877,759	878,018	895,129	888,412
S&E	297,616	275,819	276,786	274,800	272,561	270,416	267,848
Sciences	252,929	232,053	233,643	233,134	231,987	231,349	229,081
Agricultural sciences	11,733	12,873	14,399	15,246	15,616	15,655	14,950
Biological sciences	37,942	40,697	43,739	45,387	45,912	43,907	41,325
Computer sciences	15,816	15,601	15,577	15,846	17,069	21,719	24,491
Mathematics	11,089	10,486	9,799	9,432	8,903	8,395	8,173
Physical sciences	14,616	14,952	15,088	14,920	14,566	13,657	13,248
Psychology	54,870	55,914	55,905	55,346	54,225	52,397	51,562
Social sciences	106,863	81,530	79,136	76,957	75,696	75,619	75,332
Engineering	44,687	43,766	43,143	41,666	40,574	39,067	38,767
Non-S&E	620,508	616,966	607,342	602,959	605,457	624,713	620,564
Asian/Pacific Islander							
All fields	54,675	59,295	63,117	67,358	69,988	75,265	75,496
S&E	26,420	28,604	30,419	32,568	34,004	35,553	36,398
Sciences	19,904	21,819	23,619	25,483	27,002	28,699	29,373
Agricultural sciences	173	282	307	396	439	454	399
Biological sciences	5,959	7,045	7,967	8,541	8,869	8,025	7,493
Computer sciences	2,247	2,371	2,454	2,803	3,220	5,401	6,326
Mathematics	926	964	910	852	834	891	916
Physical sciences	1,096	1,347	1,559	1,620	1,676	1,560	1,430
Psychology	2,777	3,331	3,666	4,067	4,267	4,188	4,150
Social sciences	6,726	6,479	6,756	7,204	7,697	8,180	8,659
Engineering	6,516	6,785	6,800	7,085	7,002	6,854	7,025
Non-S&E	28,255	30,691	32,698	34,790	35,984	39,712	39,098
Black							
All fields	82,316	85,287	89,554	92,067	95,878	104,212	106,648
S&E	26,289	26,911	28,397	29,825	30,751	32,924	33,290
Sciences	23,630	24,066	25,397	26,748	27,732	29,861	30,406
Agricultural sciences	268	253	341	367	409	450	428

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Biological sciences	2,980	3,232	3,812	4,124	4,553	4,739	4,693
Computer sciences	2,398	2,517	2,427	2,432	2,666	3,497	4,291
Mathematics	992	958	942	1,016	966	905	808
Physical sciences	921	1,034	1,100	1,110	1,127	1,141	1,052
Psychology	5,236	5,741	6,028	6,647	6,852	7,572	7,562
Social sciences	10,835	10,331	10,747	11,052	11,159	11,557	11,572
Engineering	2,659	2,845	3,000	3,077	3,019	3,063	2,884
Non-S&E	56,027	58,376	61,157	62,242	65,127	71,288	73,358
Hispanic							
All fields	62,683	66,691	71,015	74,938	78,125	88,324	89,972
S&E	20,529	21,359	22,886	24,445	25,712	27,984	28,321
Sciences	17,386	17,708	19,155	20,320	21,587	23,909	24,305
Agricultural sciences	336	383	504	559	631	634	607
Biological sciences	2,901	3,101	3,531	3,795	4,283	4,446	4,547
Computer sciences	1,135	1,314	1,284	1,327	1,473	2,155	2,354
Mathematics	543	522	556	560	604	599	625
Physical sciences	733	800	872	853	914	1,010	1,027
Psychology	3,990	4,543	5,036	5,282	5,509	6,127	6,178
Social sciences	7,748	7,045	7,372	7,944	8,173	8,938	8,967
Engineering	3,143	3,651	3,731	4,125	4,125	4,075	4,016
Non-S&E	42,154	45,332	48,129	50,493	52,413	60,340	61,651
American Indian/Alaskan Native							
All fields	6,064	6,454	6,813	7,238	7,706	8,431	8,664
S&E	2,004	1,995	2,149	2,298	2,392	2,611	2,796
Sciences	1,786	1,774	1,906	2,035	2,138	2,283	2,540
Agricultural sciences	109	124	139	146	151	190	215
Biological sciences	246	285	317	341	399	379	431
Computer sciences	78	110	89	99	112	172	271
Mathematics	59	58	53	57	65	69	51
Physical sciences	83	98	104	100	106	108	108
Psychology	394	407	470	496	515	518	561
Social sciences	817	692	734	796	790	847	903
Engineering	218	221	243	263	254	328	256
Non-S&E	4,060	4,459	4,664	4,940	5,314	5,820	5,868
Unknown race/ethnicity							
All fields	25,052	26,912	27,401	28,455	30,977	42,965	48,977
S&E	8,593	8,775	9,290	9,809	10,489	13,950	15,839
Sciences	7,394	7,482	7,856	8,470	9,192	12,334	13,948
Agricultural sciences	300	407	428	394	428	603	620
Biological sciences	1,030	1,247	1,348	1,489	1,673	2,032	2,163
Computer sciences	511	559	528	871	997	1,558	2,059
Mathematics	260	270	265	273	269	397	456
Physical sciences	363	421	444	456	530	573	659
Psychology	1,646	1,723	1,707	1,847	1,919	2,588	2,872
Social sciences	3,284	2,855	3,136	3,140	3,376	4,583	5,119
Engineering	1,199	1,293	1,434	1,339	1,297	1,616	1,891
Non-S&E	16,459	18,137	18,111	18,646	20,488	29,015	33,138
Temporary resident							
All fields	34,227	37,012	37,787	38,774	38,887	38,795	39,479
S&E	13,929	14,685	14,747	14,737	14,709	15,184	15,714
Sciences	9,389	9,875	9,984	9,940	10,066	10,651	11,295
Agricultural sciences	246	258	270	253	293	258	248
Biological sciences	1,155	1,283	1,367	1,462	1,423	1,376	1,437
Computer sciences	2,273	2,297	2,186	2,015	2,137	2,886	3,392
Mathematics	562	593	551	533	453	479	426
Physical sciences	713	723	686	671	675	578	607

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Psychology	855	942	1,016	1,049	1,170	1,264	1,283
Social sciences	3,585	3,779	3,908	3,957	3,915	3,810	3,902
Engineering	4,540	4,810	4,763	4,797	4,643	4,533	4,419
Non-S&E	20,298	22,327	23,040	24,037	24,178	23,611	23,765

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-7. Field distribution of U.S.-citizen and permanent-resident bachelor's degree recipients, by race/ethnicity: 1994–2001

(Percent) Page 1 of 2

Race/ethnicity	1994	1995	1996	1997	1998	2000	2001
<b>White</b>							
All fields	79.9	78.5	77.4	76.5	75.6	73.7	72.9
S&E	78.0	75.9	74.8	73.5	72.5	70.5	69.7
Sciences	78.3	76.1	75.0	73.7	72.6	70.4	69.5
Agricultural sciences	90.8	89.9	89.3	89.1	88.4	87.0	86.8
Biological sciences	74.3	73.2	72.0	71.3	69.9	69.1	68.1
Computer sciences	71.3	69.4	69.7	67.8	66.8	62.9	61.5
Mathematics	80.0	79.1	78.2	77.4	76.5	74.6	74.1
Physical sciences	82.1	80.2	78.7	78.3	77.0	75.7	75.6
Psychology	79.6	78.0	76.8	75.1	74.0	71.4	70.7
Social sciences	78.4	74.8	73.4	71.9	70.8	68.9	68.1
Engineering	76.5	74.7	73.9	72.4	72.1	71.0	70.7
Non-S&E	80.9	79.7	78.7	77.9	77.1	75.2	74.4
<b>Asian/Pacific Islander</b>							
All fields	4.8	5.2	5.5	5.9	6.0	6.2	6.2
S&E	6.9	7.9	8.2	8.7	9.0	9.3	9.5
Sciences	6.2	7.2	7.6	8.1	8.4	8.7	8.9
Agricultural sciences	1.3	2.0	1.9	2.3	2.5	2.5	2.3
Biological sciences	11.7	12.7	13.1	13.4	13.5	12.6	12.4
Computer sciences	10.1	10.6	11.0	12.0	12.6	15.7	15.9
Mathematics	6.7	7.3	7.3	7.0	7.2	7.9	8.3
Physical sciences	6.2	7.2	8.1	8.5	8.9	8.6	8.2
Psychology	4.0	4.6	5.0	5.5	5.8	5.7	5.7
Social sciences	4.9	5.9	6.3	6.7	7.2	7.5	7.8
Engineering	11.2	11.6	11.7	12.3	12.4	12.5	12.8
Non-S&E	3.7	4.0	4.2	4.5	4.6	4.8	4.7
<b>Black</b>							
All fields	7.2	7.5	7.8	8.0	8.3	8.6	8.8
S&E	6.9	7.4	7.7	8.0	8.2	8.6	8.7
Sciences	7.3	7.9	8.2	8.5	8.7	9.1	9.2
Agricultural sciences	2.1	1.8	2.1	2.1	2.3	2.5	2.5
Biological sciences	5.8	5.8	6.3	6.5	6.9	7.5	7.7
Computer sciences	10.8	11.2	10.9	10.4	10.4	10.1	10.8
Mathematics	7.2	7.2	7.5	8.3	8.3	8.0	7.3
Physical sciences	5.2	5.5	5.7	5.8	6.0	6.3	6.0
Psychology	7.6	8.0	8.3	9.0	9.3	10.3	10.4
Social sciences	8.0	9.5	10.0	10.3	10.4	10.5	10.5
Engineering	4.6	4.9	5.1	5.3	5.4	5.6	5.3
Non-S&E	7.3	7.5	7.9	8.0	8.3	8.6	8.8
<b>Hispanic</b>							
All fields	5.5	5.9	6.2	6.5	6.7	7.3	7.4
S&E	5.4	5.9	6.2	6.5	6.8	7.3	7.4
Sciences	5.4	5.8	6.1	6.4	6.8	7.3	7.4
Agricultural sciences	2.6	2.7	3.1	3.3	3.6	3.5	3.5
Biological sciences	5.7	5.6	5.8	6.0	6.5	7.0	7.5
Computer sciences	5.1	5.8	5.7	5.7	5.8	6.2	5.9
Mathematics	3.9	3.9	4.4	4.6	5.2	5.3	5.7
Physical sciences	4.1	4.3	4.5	4.5	4.8	5.6	5.9
Psychology	5.8	6.3	6.9	7.2	7.5	8.3	8.5
Social sciences	5.7	6.5	6.8	7.4	7.6	8.1	8.1
Engineering	5.4	6.2	6.4	7.2	7.3	7.4	7.3
Non-S&E	5.5	5.9	6.2	6.5	6.7	7.3	7.4

TABLE C-7. Field distribution of U.S.-citizen and permanent-resident bachelor's degree recipients, by race/ethnicity: 1994–2001

(Percent) Page 2 of 2

Race/ethnicity	1994	1995	1996	1997	1998	2000	2001
<b>American Indian/Alaskan Native</b>							
All fields	0.5	0.6	0.6	0.6	0.7	0.7	0.7
S&E	0.5	0.5	0.6	0.6	0.6	0.7	0.7
Sciences	0.6	0.6	0.6	0.6	0.7	0.7	0.8
Agricultural sciences	0.8	0.9	0.9	0.9	0.9	1.1	1.2
Biological sciences	0.5	0.5	0.5	0.5	0.6	0.6	0.7
Computer sciences	0.4	0.5	0.4	0.4	0.4	0.5	0.7
Mathematics	0.4	0.4	0.4	0.5	0.6	0.6	0.5
Physical sciences	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Psychology	0.6	0.6	0.6	0.7	0.7	0.7	0.8
Social sciences	0.6	0.6	0.7	0.7	0.7	0.8	0.8
Engineering	0.4	0.4	0.4	0.5	0.5	0.6	0.5
Non-S&E	0.5	0.6	0.6	0.6	0.7	0.7	0.7
<b>Unknown race/ethnicity</b>							
All fields	2.2	2.4	2.4	2.5	2.7	3.5	4.0
S&E	2.3	2.4	2.5	2.6	2.8	3.6	4.1
Sciences	2.3	2.5	2.5	2.7	2.9	3.8	4.2
Agricultural sciences	2.3	2.8	2.7	2.3	2.4	3.4	3.6
Biological sciences	2.0	2.2	2.2	2.3	2.5	3.2	3.6
Computer sciences	2.3	2.5	2.4	3.7	3.9	4.5	5.2
Mathematics	1.9	2.0	2.1	2.2	2.3	3.5	4.1
Physical sciences	2.0	2.3	2.3	2.4	2.8	3.2	3.8
Psychology	2.4	2.4	2.3	2.5	2.6	3.5	3.9
Social sciences	2.4	2.6	2.9	2.9	3.2	4.2	4.6
Engineering	2.1	2.2	2.5	2.3	2.3	2.9	3.4
Non-S&E	2.1	2.3	2.3	2.4	2.6	3.5	4.0

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-8. Bachelor's degrees awarded in engineering, by sex, race/ethnicity, and citizenship: 1990–2002

Year	Total	Female	Male	U.S. citizen/permanent resident					
				White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Temporary resident
1990	65,967	10,130	55,837	50,099	5,989	2,173	2,473	112	5,121
1991	63,986	10,016	53,970	48,028	6,305	2,304	2,663	146	4,540
1992	63,653	9,972	53,681	47,540	6,479	2,374	2,708	163	4,389
1993	65,001	10,453	54,548	47,976	6,764	2,637	2,845	175	4,604
1994	64,946	10,800	54,146	47,136	6,881	2,769	3,045	207	4,908
1995	64,749	11,303	53,446	46,264	7,056	2,897	3,409	230	4,893
1996	65,267	11,737	53,530	45,952	7,333	3,120	3,557	263	5,042
1997	65,091	12,160	52,931	44,976	7,625	3,203	4,005	265	5,017
1998	63,271	11,797	51,474	43,623	7,131	3,144	3,939	351	5,083
1999	62,500	12,360	50,140	42,650	7,226	3,171	4,073	328	5,052
2000	63,635	13,140	50,495	43,437	7,529	3,150	4,124	347	5,048
2001	65,195	13,195	52,000	44,407	8,340	3,182	4,152	275	4,839
2002	68,648	14,102	54,546	47,149	8,669	3,358	4,298	315	4,859

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: Engineering Workforce Commission, *Engineering and Technology Degrees, 2002* (Washington, DC, 2002).

TABLE C-9. Bachelor's degrees, by field, citizenship, and race/ethnicity: 2001

Field	All recipients	U.S. citizen/permanent resident							
		All U.S. citizens/permanent residents	White	Asian/Pacific Islander	Black	Hispanic	American Indian/Alaskan Native	Unknown	Temporary resident
All fields	1,257,648	1,218,169	888,412	75,496	106,648	89,972	8,664	48,977	39,479
S&E	400,206	384,492	267,848	36,398	33,290	28,321	2,796	15,839	15,714
Sciences	340,948	329,653	229,081	29,373	30,406	24,305	2,540	13,948	11,295
Agricultural sciences	17,467	17,219	14,950	399	428	607	215	620	248
Biological sciences	62,089	60,652	41,325	7,493	4,693	4,547	431	2,163	1,437
Computer sciences	43,184	39,792	24,491	6,326	4,291	2,354	271	2,059	3,392
Earth, atmospheric, and ocean sciences	3,968	3,919	3,436	86	56	157	35	149	49
Atmospheric	456	454	395	14	2	15	5	23	2
Earth	3,334	3,288	2,888	64	52	130	29	125	46
Ocean	178	177	153	8	2	12	1	1	1
Mathematics	11,455	11,029	8,173	916	808	625	51	456	426
Physical sciences	14,163	13,605	9,812	1,344	996	870	73	510	558
Astronomy	240	227	185	12	2	16	2	10	13
Chemistry	9,822	9,487	6,505	1,126	827	669	47	313	335
Physics	3,457	3,275	2,625	184	133	151	19	163	182
Other	644	616	497	22	34	34	5	24	28
Psychology	74,168	72,885	51,562	4,150	7,562	6,178	561	2,872	1,283
Social sciences	114,454	110,552	75,332	8,659	11,572	8,967	903	5,119	3,902
Anthropology	6,898	6,778	5,222	332	242	465	93	424	120
Area and ethnic studies	5,561	5,394	2,938	714	691	648	106	297	167
Economics	20,377	18,553	12,419	3,082	1,089	1,030	68	865	1,824
History of science	101	98	57	15	6	5	0	15	3
Linguistics	757	680	499	69	24	45	2	41	77
Political science and public administration	36,651	35,504	24,963	2,228	3,554	2,925	234	1,600	1,147
Sociology	25,363	25,105	16,105	1,300	4,200	2,291	225	984	258
Other	18,746	18,440	13,129	919	1,766	1,558	175	893	306
Engineering	59,258	54,839	38,767	7,025	2,884	4,016	256	1,891	4,419
Aerospace	1,498	1,350	1,058	103	39	92	8	50	148
Chemical	6,088	5,664	4,061	702	373	341	31	156	424
Civil	8,949	8,537	6,615	521	329	742	65	265	412
Electrical	18,371	16,529	9,891	3,522	1,082	1,302	56	676	1,842
Industrial	3,818	3,343	2,330	319	237	356	17	84	475
Materials	930	888	708	88	27	34	4	27	42
Mechanical	13,160	12,416	9,541	998	515	880	51	431	744
Other	6,444	6,112	4,563	772	282	269	24	202	332
Non-S&E	857,442	833,677	620,564	39,098	73,358	61,651	5,868	33,138	23,765

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2001.



TABLE C-10. Bachelor's degrees awarded to U.S.-citizen and permanent-resident blacks, by institution type and field: 1994–2001

Institution type and field	1994	1995	1996	1997	1998	2000	2001
	Number of recipients						
All institutions							
All fields	82,316	85,287	89,554	92,067	95,878	104,212	106,648
S&E	26,289	27,528	29,055	30,444	31,398	33,462	33,290
Sciences	23,630	24,683	26,055	27,368	28,380	30,400	30,406
Agricultural sciences	268	263	363	387	426	458	428
Biological sciences	2,980	3,231	3,811	4,123	4,550	4,734	4,693
Computer sciences	2,398	2,498	2,415	2,370	2,580	3,330	4,291
Mathematical sciences	992	995	981	1,071	1,030	971	808
Physical sciences	921	1,034	1,100	1,110	1,127	1,141	1,052
Psychology	5,236	5,741	6,028	6,647	6,852	7,572	7,562
Social sciences	10,835	10,921	11,357	11,660	11,815	12,194	11,572
Engineering	2,659	2,845	3,000	3,076	3,018	3,062	2,884
Non-S&E	56,027	57,759	60,499	61,623	64,480	70,750	73,358
Historically black colleges and universities							
All fields	23,426	23,989	25,425	25,215	25,546	25,558	25,142
S&E	7,804	8,361	8,980	9,071	9,151	8,773	8,682
Sciences	7,114	7,563	8,086	8,166	8,308	8,079	8,013
Agricultural sciences	134	123	197	216	220	218	198
Biological sciences	1,197	1,357	1,628	1,841	1,920	1,884	1,943
Computer sciences	904	967	979	834	904	987	1,220
Mathematical sciences	449	466	443	478	442	427	345
Physical sciences	421	471	547	503	485	496	471
Psychology	1,308	1,432	1,512	1,653	1,636	1,682	1,677
Social sciences	2,701	2,747	2,780	2,641	2,701	2,385	2,159
Engineering	690	798	894	905	843	694	669
Non-S&E	15,622	15,628	16,445	16,144	16,395	16,785	16,460
	Percent						
Historically black colleges and universities							
All fields	28.5	28.1	28.4	27.4	26.6	24.5	23.6
S&E	29.7	30.4	30.9	29.8	29.1	26.2	26.1
Sciences	30.1	30.6	31.0	29.8	29.3	26.6	26.4
Agricultural sciences	50.0	46.8	54.3	55.8	51.6	47.6	46.3
Biological sciences	40.2	42.0	42.7	44.7	42.2	39.8	41.4
Computer sciences	37.7	38.7	40.5	35.2	35.0	29.6	28.4
Mathematical sciences	45.3	46.8	45.2	44.6	42.9	44.0	42.7
Physical sciences	45.7	45.6	49.7	45.3	43.0	43.5	44.8
Psychology	25.0	24.9	25.1	24.9	23.9	22.2	22.2
Social sciences	24.9	25.2	24.5	22.7	22.9	19.6	18.7
Engineering	25.9	28.0	29.8	29.4	27.9	22.7	23.2
Non-S&E	27.9	27.1	27.2	26.2	25.4	23.7	22.4

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-11. Bachelor's degrees awarded to U.S.-citizen and permanent-resident Hispanics, by institution type and field: 1994–2001

Institution type and field	1994	1995	1996	1997	1998	2000	2001
	Number of recipients						
All institutions							
All fields	62,683	66,691	71,015	74,938	78,125	88,324	89,972
S&E	20,529	21,359	22,886	24,445	25,712	27,984	28,321
Sciences	17,386	17,708	19,155	20,320	21,587	23,909	24,305
Agricultural sciences	336	383	504	559	631	634	607
Biological sciences	2,901	3,101	3,531	3,795	4,283	4,446	4,547
Computer sciences	1,135	1,314	1,284	1,327	1,473	2,155	2,354
Mathematical sciences	543	522	556	560	604	599	625
Physical sciences	733	800	872	853	914	1,010	1,027
Psychology	3,990	4,543	5,036	5,282	5,509	6,127	6,178
Social sciences	7,748	7,045	7,372	7,944	8,173	8,938	8,967
Engineering	3,143	3,651	3,731	4,125	4,125	4,075	4,016
Non-S&E	42,154	45,332	48,129	50,493	52,413	60,340	61,651
Hispanic-serving institutions							
All fields	25,568	26,924	28,439	29,407	29,555	33,847	34,062
S&E	6,758	7,309	7,793	8,399	8,624	9,383	9,494
Sciences	5,585	5,744	6,291	6,695	7,035	7,822	7,897
Agricultural sciences	97	119	155	188	190	202	214
Biological sciences	1,296	1,298	1,512	1,607	1,826	1,986	2,027
Computer sciences	473	512	518	485	544	696	726
Mathematical sciences	168	182	199	216	202	218	202
Physical sciences	324	398	423	401	428	518	472
Psychology	1,363	1,485	1,633	1,707	1,774	2,006	2,047
Social sciences	1,864	1,750	1,851	2,091	2,071	2,196	2,209
Engineering	1,173	1,565	1,502	1,704	1,589	1,561	1,597
Non-S&E	18,810	19,615	20,646	21,008	20,931	24,464	24,568
	Percent						
Hispanic-serving institutions							
All fields	40.8	40.4	40.0	39.2	37.8	38.3	37.9
S&E	32.9	34.2	34.1	34.4	33.5	33.5	33.5
Sciences	32.1	32.4	32.8	32.9	32.6	32.7	32.5
Agricultural sciences	28.9	31.1	30.8	33.6	30.1	31.9	35.3
Biological sciences	44.7	41.9	42.8	42.3	42.6	44.7	44.6
Computer sciences	41.7	39.0	40.3	36.5	36.9	32.3	30.8
Mathematical sciences	30.9	34.9	35.8	38.6	33.4	36.4	32.3
Physical sciences	44.2	49.8	48.5	47.0	46.8	51.3	46.0
Psychology	34.2	32.7	32.4	32.3	32.2	32.7	33.1
Social sciences	24.1	24.8	25.1	26.3	25.3	24.6	24.6
Engineering	37.3	42.9	40.3	41.3	38.5	38.3	39.8
Non-S&E	44.6	43.3	42.9	41.6	39.9	40.5	39.9

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-12. Bachelor's degrees awarded to U.S.-citizen and permanent-resident American Indians/Alaskan Natives, by institution type and field: 1994–2001

Institution type and field	1994	1995	1996	1997	1998	2000	2001
	Number of recipients						
All institutions							
All fields	6,064	6,454	6,813	7,238	7,706	8,431	8,664
S&E	2,004	1,995	2,149	2,298	2,392	2,611	2,796
Sciences	1,786	1,774	1,906	2,035	2,138	2,283	2,540
Agricultural sciences	109	124	139	146	151	190	215
Biological sciences	246	285	317	341	399	379	431
Computer sciences	78	110	89	99	112	172	271
Mathematical sciences	59	58	53	57	65	69	51
Physical sciences	83	98	104	100	106	108	108
Psychology	394	407	470	496	515	518	561
Social sciences	817	692	734	796	790	847	903
Engineering	218	221	243	263	254	328	256
Non-S&E	4,060	4,459	4,664	4,940	5,314	5,820	5,868
Tribal colleges and universities							
All fields	55	43	57	67	48	98	112
S&E	7	7	14	24	15	28	44
Sciences	7	7	14	24	15	28	44
Agricultural sciences	0	0	2	7	3	5	8
Biological sciences	0	0	0	0	0	0	0
Computer sciences	0	0	0	0	0	0	2
Mathematical sciences	0	0	0	0	0	0	0
Physical sciences	0	0	0	0	0	0	0
Psychology	0	0	0	0	0	0	0
Social sciences	7	7	12	17	12	23	34
Engineering	0	0	0	0	0	0	0
Non-S&E	48	36	43	43	33	70	68
	Percent						
Tribal colleges and universities							
All fields	0.9	0.7	0.8	0.9	0.6	1.2	1.3
S&E	0.3	0.4	0.7	1.0	0.6	1.1	1.6
Sciences	0.4	0.4	0.7	1.2	0.7	1.2	1.7
Agricultural sciences	0.0	0.0	1.4	4.8	2.0	2.6	3.7
Biological sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Computer sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Mathematical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Psychology	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social sciences	0.9	1.0	1.6	2.1	1.5	2.7	3.8
Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-S&E	1.2	0.8	0.9	0.9	0.6	1.2	1.2

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-13. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
All fields	646,080	643,290	651,815	661,307	673,865	716,963	721,625
S&E	178,888	175,931	181,333	187,011	190,397	200,953	202,583
Sciences	168,495	164,981	170,017	175,541	179,058	188,737	190,669
Agricultural sciences	4,996	5,637	6,504	7,267	7,743	8,464	8,491
Biological sciences	26,899	29,918	32,865	35,266	37,101	37,958	37,084
Computer sciences	6,992	7,063	6,772	6,903	7,439	10,474	11,900
Mathematics	6,677	6,491	5,992	5,889	5,659	5,604	5,497
Physical sciences	6,272	6,816	7,187	7,424	7,593	7,607	7,533
Psychology	51,019	52,963	53,863	55,243	55,400	57,114	57,467
Social sciences	65,640	56,093	56,834	57,549	58,123	61,516	62,697
Engineering	10,393	10,950	11,316	11,470	11,339	12,216	11,914
Non-S&E	467,192	467,359	470,482	474,296	483,468	516,010	519,042
U.S. citizen/permanent resident							
All fields	631,596	627,394	635,459	644,156	656,430	698,782	702,996
S&E	174,421	171,106	176,284	181,754	185,125	194,917	196,328
Sciences	164,576	160,722	165,588	170,960	174,414	183,507	185,191
Agricultural sciences	4,907	5,549	6,393	7,176	7,619	8,339	8,362
Biological sciences	26,319	29,257	32,111	34,473	36,358	37,129	36,227
Computer science	6,386	6,435	6,164	6,330	6,815	9,569	10,844
Mathematics	6,479	6,256	5,820	5,676	5,492	5,429	5,337
Physical science	6,026	6,566	6,938	7,184	7,347	7,382	7,285
Psychology	50,371	52,253	53,122	54,449	54,526	56,124	56,454
Social sciences	64,088	54,406	55,040	55,672	56,257	59,535	60,682
Engineering	9,845	10,384	10,696	10,794	10,711	11,410	11,137
Non-S&E	457,175	456,288	459,175	462,402	471,305	503,865	506,668
White							
All fields	497,913	485,630	484,996	485,218	489,011	506,958	504,580
S&E	132,371	126,169	128,224	129,706	130,189	133,128	132,664
Sciences	125,514	119,219	121,088	122,651	123,267	125,846	125,607
Agricultural sciences	4,400	4,899	5,600	6,236	6,554	7,101	7,121
Biological sciences	19,060	20,892	22,652	23,970	24,977	25,228	24,286
Computer sciences	3,794	3,756	3,568	3,599	3,795	4,971	5,448
Mathematics	5,169	4,954	4,584	4,387	4,164	4,049	3,928
Physical sciences	4,658	4,946	5,122	5,225	5,276	5,218	5,202
Psychology	39,979	40,673	40,735	40,826	40,307	40,003	39,977
Social sciences	48,454	39,099	38,827	38,408	38,194	39,276	39,645
Engineering	6,857	6,950	7,136	7,055	6,922	7,282	7,057
Non-S&E	365,542	359,461	356,772	355,512	358,822	373,830	371,916
Asian/Pacific Islander							
All fields	28,255	30,947	33,163	35,626	37,400	40,697	41,291
S&E	11,453	12,866	13,743	14,942	15,828	16,981	17,423
Sciences	10,172	11,421	12,307	13,468	14,261	15,317	15,739
Agricultural sciences	91	156	171	229	251	274	256
Biological sciences	2,967	3,578	4,087	4,533	4,688	4,460	4,280
Computer sciences	771	782	751	849	892	1,741	2,046
Mathematics	403	451	390	380	390	444	434
Physical sciences	448	563	651	739	773	724	700
Psychology	1,970	2,362	2,541	2,862	3,044	3,150	3,106
Social sciences	3,522	3,529	3,716	3,876	4,223	4,524	4,917
Engineering	1,281	1,445	1,436	1,474	1,567	1,664	1,684
Non-S&E	16,802	18,081	19,420	20,684	21,572	23,716	23,868
Black							
All fields	52,210	54,289	57,331	59,341	62,225	68,564	70,270
S&E	15,483	16,199	17,167	18,330	19,053	20,948	21,327
Sciences	14,608	15,200	16,131	17,273	18,011	19,858	20,301

TABLE C-13. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Agricultural sciences	131	138	171	196	230	267	261
Biological sciences	2,053	2,251	2,576	2,820	3,105	3,359	3,367
Computer sciences	1,237	1,264	1,204	1,179	1,294	1,670	1,989
Mathematics	535	500	493	533	504	471	451
Physical sciences	457	539	618	644	606	669	604
Psychology	4,004	4,339	4,610	5,056	5,308	5,926	6,005
Social sciences	6,191	6,169	6,459	6,845	6,964	7,496	7,624
Engineering	875	999	1,036	1,057	1,042	1,090	1,026
Non-S&E	36,727	38,090	40,164	41,011	43,172	47,616	48,943
Hispanic							
All fields	36,823	38,816	41,680	44,388	46,409	53,667	54,667
S&E	10,339	10,890	11,887	12,945	13,744	15,460	15,580
Sciences	9,691	10,134	11,053	12,016	12,798	14,472	14,618
Agricultural sciences	143	156	222	264	313	319	310
Biological sciences	1,603	1,761	1,969	2,196	2,460	2,710	2,791
Computer sciences	416	434	457	437	512	695	726
Mathematics	243	217	224	234	286	273	295
Physical sciences	318	363	384	385	440	505	497
Psychology	2,994	3,377	3,710	3,997	4,127	4,699	4,782
Social sciences	3,974	3,826	4,087	4,503	4,660	5,271	5,217
Engineering	648	756	834	929	946	988	962
Non-S&E	26,484	27,926	29,793	31,443	32,665	38,207	39,087
American Indian/Alaskan Native							
All fields	3,502	3,785	4,002	4,323	4,627	5,074	5,141
S&E	999	1,005	1,127	1,255	1,270	1,445	1,478
Sciences	960	960	1,079	1,188	1,223	1,356	1,414
Agricultural sciences	43	42	58	70	68	90	97
Biological sciences	134	157	174	184	208	223	237
Computer sciences	19	37	39	28	36	59	78
Mathematics	30	30	23	28	27	38	23
Physical sciences	31	32	30	43	41	53	49
Psychology	281	287	338	372	368	390	405
Social sciences	422	375	417	463	475	503	525
Engineering	39	45	48	67	47	89	64
Non-S&E	2,503	2,780	2,875	3,068	3,357	3,629	3,663
Other or unknown race/ethnicity							
All fields	12,893	13,927	14,287	15,260	16,758	23,822	27,047
S&E	3,776	3,977	4,136	4,576	5,041	6,955	7,856
Sciences	3,631	3,788	3,930	4,364	4,854	6,658	7,512
Agricultural sciences	99	158	171	181	203	288	317
Biological sciences	502	618	653	770	920	1,149	1,266
Computer sciences	149	162	145	238	286	433	557
Mathematics	99	104	106	114	121	154	206
Physical sciences	114	123	133	148	211	213	233
Psychology	1,143	1,215	1,188	1,336	1,372	1,956	2,179
Social sciences	1,525	1,408	1,534	1,577	1,741	2,465	2,754
Engineering	145	189	206	212	187	297	344
Non-S&E	9,117	9,950	10,151	10,684	11,717	16,867	19,191
Temporary resident							
All fields	14,484	15,896	16,356	17,151	17,435	18,181	18,629
S&E	4,467	4,825	5,049	5,257	5,272	6,036	6,255
Sciences	3,919	4,259	4,429	4,581	4,644	5,230	5,478
Agricultural sciences	89	88	111	91	124	125	129
Biological sciences	580	661	754	793	743	829	857
Computer sciences	606	628	608	573	624	905	1,056
Mathematics	198	235	172	213	167	175	160

TABLE C-13. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Physical sciences	246	250	249	240	246	225	248
Psychology	648	710	741	794	874	990	1,013
Social sciences	1,552	1,687	1,794	1,877	1,866	1,981	2,015
Engineering	548	566	620	676	628	806	777
Non-S&E	10,017	11,071	11,307	11,894	12,163	12,145	12,374

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-14. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
All fields	537,061	531,146	528,000	525,282	525,714	536,158	536,023
S&E	216,492	202,217	203,341	201,471	200,221	197,669	197,623
Sciences	163,923	149,796	151,543	150,589	150,646	150,349	150,279
Agricultural sciences	8,169	8,943	9,884	10,094	10,224	9,780	8,976
Biological sciences	25,314	26,972	29,216	29,873	30,011	26,946	25,005
Computer sciences	17,466	17,706	17,773	18,490	20,235	26,914	31,284
Mathematics	7,754	7,360	7,084	6,834	6,435	6,131	5,958
Physical sciences	12,253	12,559	12,666	12,306	12,001	11,020	10,598
Psychology	18,749	19,638	19,965	19,491	19,057	17,540	16,701
Social sciences	74,218	56,618	54,955	53,501	52,683	52,018	51,757
Engineering	52,569	52,421	51,798	50,882	49,575	47,320	47,344
Non-S&E	320,569	328,929	324,659	323,811	325,493	338,489	338,400
U.S. citizen/permanent resident							
All fields	517,318	510,030	506,569	503,659	504,262	515,544	515,173
S&E	207,030	192,357	193,643	191,991	190,784	188,521	188,164
Sciences	158,453	144,180	145,988	145,230	145,224	144,928	144,462
Agricultural sciences	8,012	8,773	9,725	9,932	10,055	9,647	8,857
Biological sciences	24,739	26,350	28,603	29,204	29,331	26,399	24,425
Computer sciences	15,799	16,037	16,195	17,048	18,722	24,933	28,948
Mathematics	7,390	7,002	6,705	6,514	6,149	5,827	5,692
Physical sciences	11,786	12,086	12,229	11,875	11,572	10,667	10,239
Psychology	18,542	19,406	19,690	19,236	18,761	17,266	16,431
Social sciences	72,185	54,526	52,841	51,421	50,634	50,189	49,870
Engineering	48,577	48,177	47,655	46,761	45,560	43,593	43,702
Non-S&E	310,288	317,673	312,926	311,668	313,478	327,023	327,009
White							
All fields	420,211	407,155	399,132	392,541	389,007	388,171	383,832
S&E	165,245	149,650	148,562	145,094	142,372	137,288	135,184
Sciences	127,415	112,834	112,555	110,483	108,720	105,503	103,474
Agricultural sciences	7,333	7,974	8,799	9,010	9,062	8,554	7,829
Biological sciences	18,882	19,805	21,087	21,417	20,935	18,679	17,039
Computer sciences	12,022	11,845	12,009	12,247	13,274	16,748	19,043
Mathematics	5,920	5,532	5,215	5,045	4,739	4,346	4,245
Physical sciences	9,958	10,006	9,966	9,695	9,290	8,439	8,046
Psychology	14,891	15,241	15,170	14,520	13,918	12,394	11,585
Social sciences	58,409	42,431	40,309	38,549	37,502	36,343	35,687
Engineering	37,830	36,816	36,007	34,611	33,652	31,785	31,710
Non-S&E	254,966	257,505	250,570	247,447	246,635	250,883	248,648
Asian/Pacific Islander							
All fields	26,420	28,348	29,954	31,732	32,588	34,568	34,205
S&E	14,967	15,738	16,676	17,626	18,176	18,572	18,975
Sciences							
Agricultural sciences	82	126	136	167	188	180	143
Biological sciences	2,992	3,467	3,880	4,008	4,181	3,565	3,213
Computer sciences	1,476	1,589	1,703	1,954	2,328	3,660	4,280
Mathematics	523	513	520	472	444	447	482
Physical sciences	648	784	908	881	903	836	730
Psychology	807	969	1,125	1,205	1,223	1,038	1,044
Social sciences	3,204	2,950	3,040	3,328	3,474	3,656	3,742
Engineering	5,235	5,340	5,364	5,611	5,435	5,190	5,341
Non-S&E	11,453	12,610	13,278	14,106	14,412	15,996	15,230

TABLE C-14. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
<b>Black</b>							
All fields	30,106	30,998	32,223	32,726	33,653	35,648	36,378
S&E	10,806	10,712	11,230	11,495	11,698	11,976	11,963
Sciences	9,022	8,866	9,266	9,475	9,721	10,003	10,105
Agricultural sciences	137	115	170	171	179	183	167
Biological sciences	927	981	1,236	1,304	1,448	1,380	1,326
Computer sciences	1,161	1,253	1,223	1,253	1,372	1,827	2,302
Mathematics	457	458	449	483	462	434	357
Physical sciences	464	495	482	466	521	472	448
Psychology	1,232	1,402	1,418	1,591	1,544	1,646	1,557
Social sciences	4,644	4,162	4,288	4,207	4,195	4,061	3,948
Engineering	1,784	1,846	1,964	2,020	1,977	1,973	1,858
Non-S&E	19,300	20,286	20,993	21,231	21,955	23,672	24,415
<b>Hispanic</b>							
All fields	25,860	27,875	29,335	30,550	31,716	34,657	35,305
S&E	10,190	10,469	10,999	11,500	11,968	12,524	12,741
Sciences	7,695	7,574	8,102	8,304	8,789	9,437	9,687
Agricultural sciences	193	227	282	295	318	315	297
Biological sciences	1,298	1,340	1,562	1,599	1,823	1,736	1,756
Computer sciences	719	880	827	890	961	1,460	1,628
Mathematics	300	305	332	326	318	326	330
Physical sciences	415	437	488	468	474	505	530
Psychology	996	1,166	1,326	1,285	1,382	1,428	1,396
Social sciences	3,774	3,219	3,285	3,441	3,513	3,667	3,750
Engineering	2,495	2,895	2,897	3,196	3,179	3,087	3,054
Non-S&E	15,670	17,406	18,336	19,050	19,748	22,133	22,564
<b>American Indian/Alaskan Native</b>							
All fields	2,562	2,669	2,811	2,915	3,079	3,357	3,523
S&E	1,005	990	1,022	1,043	1,122	1,166	1,318
Sciences	826	814	827	847	915	927	1,126
Agricultural sciences	66	82	81	76	83	100	118
Biological sciences	112	128	143	157	191	156	194
Computer sciences	59	73	50	71	76	113	193
Mathematics	29	28	30	29	38	31	28
Physical sciences	52	66	74	57	65	55	59
Psychology	113	120	132	124	147	128	156
Social sciences	395	317	317	333	315	344	378
Engineering	179	176	195	196	207	239	192
Non-S&E	1,557	1,679	1,789	1,872	1,957	2,191	2,205
<b>Other or unknown race/ethnicity</b>							
All fields	12,159	12,985	13,114	13,195	14,219	19,143	21,930
S&E	4,817	4,798	5,154	5,233	5,448	6,995	7,983
Sciences	3,763	3,694	3,926	4,106	4,338	5,676	6,436
Agricultural sciences	201	249	257	213	225	315	303
Biological sciences	528	629	695	719	753	883	897
Computer sciences	362	397	383	633	711	1,125	1,502
Mathematics	161	166	159	159	148	243	250
Physical sciences	249	298	311	308	319	360	426
Psychology	503	508	519	511	547	632	693
Social sciences	1,759	1,447	1,602	1,563	1,635	2,118	2,365
Engineering	1,054	1,104	1,228	1,127	1,110	1,319	1,547
Non-S&E	7,342	8,187	7,960	7,962	8,771	12,148	13,947



TABLE C-14. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Temporary resident							
All fields	19,743	21,116	21,431	21,623	21,452	20,614	20,850
S&E	9,462	9,860	9,698	9,480	9,437	9,148	9,459
Sciences	5,470	5,616	5,555	5,359	5,422	5,421	5,817
Agricultural sciences	157	170	159	162	169	133	119
Biological sciences	575	622	613	669	680	547	580
Computer sciences	1,667	1,669	1,578	1,442	1,513	1,981	2,336
Mathematics	364	358	379	320	286	304	266
Physical sciences	467	473	437	431	429	353	359
Psychology	207	232	275	255	296	274	270
Social sciences	2,033	2,092	2,114	2,080	2,049	1,829	1,887
Engineering	3,992	4,244	4,143	4,121	4,015	3,727	3,642
Non-S&E	10,281	11,256	11,733	12,143	12,015	11,466	11,391

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-15. Bachelor's degrees, by race/ethnicity, citizenship, sex, and field: 2001

Race/ethnicity, citizenship, and sex	All fields	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
All recipients	1,257,648	400,206	340,948	17,467	62,089	43,184	3,968	11,455	14,163	74,168	114,454	59,258	857,442
White	888,412	267,848	229,081	14,950	41,325	24,491	3,436	8,173	9,812	51,562	75,332	38,767	620,564
Asian/Pacific Islander	75,496	36,398	29,373	399	7,493	6,326	86	916	1,344	4,150	8,659	7,025	39,098
Black	106,648	33,290	30,406	428	4,693	4,291	56	808	996	7,562	11,572	2,884	73,358
Hispanic	89,972	28,321	24,305	607	4,547	2,354	157	625	870	6,178	8,967	4,016	61,651
American Indian/Alaskan Native	8,664	2,796	2,540	215	431	271	35	51	73	561	903	256	5,868
Other or unknown race/ethnicity	48,977	15,839	13,948	620	2,163	2,059	149	456	510	2,872	5,119	1,891	33,138
Temporary resident	39,479	15,714	11,295	248	1,437	3,392	49	426	558	1,283	3,902	4,419	23,765
Female	721,625	202,583	190,669	8,491	37,084	11,900	1,622	5,497	5,911	57,467	62,697	11,914	519,042
White	504,580	132,664	125,607	7,121	24,286	5,448	1,383	3,928	3,819	39,977	39,645	7,057	371,916
Asian/Pacific Islander	41,291	17,423	15,739	256	4,280	2,046	43	434	657	3,106	4,917	1,684	23,868
Black	70,270	21,327	20,301	261	3,367	1,989	24	451	580	6,005	7,624	1,026	48,943
Hispanic	54,667	15,580	14,618	310	2,791	726	83	295	414	4,782	5,217	962	39,087
American Indian/Alaskan Native	5,141	1,478	1,414	97	237	78	16	23	33	405	525	64	3,663
Other or unknown race/ethnicity	27,047	7,856	7,512	317	1,266	557	60	206	173	2,179	2,754	344	19,191
Temporary resident	18,629	6,255	5,478	129	857	1,056	13	160	235	1,013	2,015	777	12,374
Male	536,023	197,623	150,279	8,976	25,005	31,284	2,346	5,958	8,252	16,701	51,757	47,344	338,400
White	383,832	135,184	103,474	7,829	17,039	19,043	2,053	4,245	5,993	11,585	35,687	31,710	248,648
Asian/Pacific Islander	34,205	18,975	13,634	143	3,213	4,280	43	482	687	1,044	3,742	5,341	15,230
Black	35,305	12,741	9,687	297	1,756	1,628	74	330	456	1,396	3,750	3,054	22,564
Hispanic	36,378	11,963	10,105	167	1,326	2,302	32	357	416	1,557	3,948	1,858	24,415
American Indian/Alaskan Native	3,523	1,318	1,126	118	194	193	19	28	40	156	378	192	2,205
Other or unknown race/ethnicity	21,930	7,983	6,436	303	897	1,502	89	250	337	693	2,365	1,547	13,947
Temporary resident	20,850	9,459	5,817	119	580	2,336	36	266	323	270	1,887	3,642	11,391
	Percent												
Female	57.4	50.6	55.9	48.6	59.7	27.6	40.9	48.0	41.7	77.5	54.8	20.1	60.5
White	56.8	49.5	54.8	47.6	58.8	22.2	40.3	48.1	38.9	77.5	52.6	18.2	59.9
Asian/Pacific Islander	54.7	47.9	53.6	64.2	57.1	32.3	50.0	47.4	48.9	74.8	56.8	24.0	61.0
Black	65.9	64.1	66.8	61.0	71.7	46.4	42.9	55.8	58.2	79.4	65.9	35.6	66.7
Hispanic	60.8	55.0	60.1	51.1	61.4	30.8	52.9	47.2	47.6	77.4	58.2	24.0	63.4
American Indian/Alaskan Native	59.3	52.9	55.7	45.1	55.0	28.8	45.7	45.1	45.2	72.2	58.1	25.0	62.4
Other or unknown race/ethnicity	55.2	49.6	53.9	51.1	58.5	27.1	40.3	45.2	33.9	75.9	53.8	18.2	57.9
Temporary resident	47.2	39.8	48.5	52.0	59.6	31.1	26.5	37.6	42.1	79.0	51.6	17.6	52.1

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2001.

TABLE C-16. First university degree in selected countries, by sex and field: 2000

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Country and sex	All fields	All S&E	Sciences	Agricultural sciences	Computer sciences	Life sciences	Mathematics/statistics	Physical sciences	Social/behavioral sciences	Engineering	Non-S&E
Number of degrees											
Australia	106,985	24,654	19,693	1,069	4,896	7,435	537	1,019	4,737	4,961	82,331
Austria	1,662	618	46	0	46	0	0	0	0	572	1,044
Canada	116,160	50,901	43,673	1,236	3,657	8,188	1,767	2,165	26,660	7,228	65,259
Czech Republic	10,010	3,212	2,704	129	408	120	81	138	1,828	508	6,798
Denmark	6,735	2,339	2,323	171	161	237	48	222	1,484	16	4,396
Finland	13,441	3,905	982	391	332	10	24	27	198	2,923	9,536
France	226,314	87,894	78,573	95	5,300	19,019	8,610	14,492	31,057	9,321	138,420
Germany	56,681	16,845	4,068	960	2,421	231	140	256	60	12,777	39,836
Hungary	30,320	3,260	1,205	1,024	181	0	0	0	0	2,055	27,060
Iceland	1,318	317	261	9	51	44	7	28	122	56	1,001
Ireland	18,669	5,700	4,622	196	1,257	1,456	148	775	790	1,078	12,969
Israel	30,267	14,259	11,497	171	0	566	2,054	379	8,327	2,762	16,008
Italy	11,568	3,284	1,048	102	226	67	514	80	59	2,236	8,284
Mexico	287,019	65,864	46,016	3,475	18,236	2,066	1,115	4,128	16,996	19,848	221,155
Netherlands	66,932	14,810	10,260	1,336	1,108	822	170	1,363	5,461	4,550	52,122
New Zealand	17,177	3,218	3,214	156	358	0	0	2,292	408	4	13,959
Norway	17,959	2,963	2,457	52	609	24	0	8	1,764	506	14,996
Slovak Republic	5,226	809	376	29	211	26	31	3	76	433	4,417
South Korea	209,747	84,606	40,351	5,859	4,630	4,400	4,669	9,027	11,766	44,255	125,141
Spain	87,464	18,130	7,842	3,236	3,638	0	968	0	0	10,288	69,334
Sweden	32,573	10,141	4,589	178	1,114	677	149	579	1,892	5,552	22,432
Switzerland	7,648	1,739	228	84	15	0	0	6	123	1,511	5,909
Turkey	118,882	40,580	33,476	4,913	773	2,438	3,503	6,306	15,543	7,104	78,302
United States	1,237,874	437,548	364,993	33,650	36,195	63,532	12,070	18,385	201,161	72,555	800,326
Female											
Australia	62,115	10,073	9,402	449	1,243	4,164	215	384	2,947	671	52,042
Austria	435	64	2	0	2	0	0	0	0	62	371
Canada	68,450	27,114	25,736	592	760	5,007	778	876	17,723	1,378	41,336
Czech Republic	5,924	1,453	1,362	53	30	73	52	58	1,096	91	4,471
Denmark	3,458	1,056	1,055	86	45	137	19	84	684	1	2,402
Finland	8,300	842	444	164	129	7	13	9	122	398	7,458
France	138,219	44,186	42,452	44	1,055	11,402	3,828	5,493	20,630	1,734	94,033
Germany	21,151	1,538	770	235	223	127	55	87	43	768	19,613
Hungary	19,227	679	530	481	49	0	0	0	0	149	18,548
Iceland	907	148	141	0	11	31	2	13	84	7	759
Ireland	10,377	2,590	2,437	66	459	915	59	361	577	153	7,787
Israel	18,642	7,273	6,621	86	0	402	710	130	5,293	652	11,369
Italy	6,783	651	415	18	54	39	244	18	42	236	6,132
Mexico	148,149	26,627	23,236	769	7,800	1,088	512	2,393	10,674	3,391	121,522
Netherlands	36,302	4,415	4,173	423	151	449	49	332	2,769	242	31,887
New Zealand	11,237	1,525	1,525	50	119	0	0	1,058	298	0	9,712
Norway	12,268	1,041	933	16	103	13	0	2	799	108	11,227
Slovak Republic	3,205	181	115	12	25	22	23	1	32	66	3,024
South Korea	99,759	25,621	18,685	2,054	2,233	2,601	2,777	3,983	5,037	6,936	74,138
Spain	53,448	4,957	2,776	1,394	854	0	528	0	0	2,181	48,491
Sweden	19,694	3,799	2,571	99	469	431	54	312	1,206	1,228	15,895
Switzerland	2,870	134	94	7	0	0	0	0	87	40	2,736
Turkey	49,107	15,172	14,302	1,867	171	1,497	1,636	2,850	6,281	870	33,935
United States	707,507	211,621	198,211	16,260	10,153	37,028	5,688	7,413	121,669	13,410	495,886
Male											
Australia	44,870	14,581	10,291	620	3,653	3,271	322	635	1,790	4,290	30,289
Austria	1,227	554	44	0	44	0	0	0	0	510	673

TABLE C-16. First university degree in selected countries, by sex and field: 2000

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Country and sex	All fields	All S&E	Sciences	Agricultural sciences	Computer sciences	Life sciences	Mathematics/statistics	Physical sciences	Social/behavioral sciences	Engineering	Non-S&E
Number of degrees											
Canada	47,710	23,787	17,937	644	2,897	3,181	989	1,289	8,937	5,850	23,923
Czech Republic	4,086	1,759	1,342	76	378	47	29	80	732	417	2,327
Denmark	3,277	1,283	1,268	85	116	100	29	138	800	15	1,994
Finland	5,141	3,063	538	227	203	3	11	18	76	2,525	2,078
France	88,095	43,708	36,121	51	4,245	7,617	4,782	8,999	10,427	7,587	44,387
Germany	35,530	15,307	3,298	725	2,198	104	85	169	17	12,009	20,223
Hungary	11,093	2,581	675	543	132	0	0	0	0	1,906	8,512
Iceland	411	169	120	9	40	13	5	15	38	49	242
Ireland	8,292	3,110	2,185	130	798	541	89	414	213	925	5,182
Israel	11,625	6,986	4,876	85	0	164	1,344	249	3,034	2,110	4,639
Italy	4,785	2,633	633	84	172	28	270	62	17	2,000	2,152
Mexico	138,870	39,237	22,780	2,706	10,436	978	603	1,735	6,322	16,457	99,633
Netherlands	30,630	10,395	6,087	913	957	373	121	1,031	2,692	4,308	20,235
New Zealand	5,940	1,693	1,689	106	239	0	0	1,234	110	4	4,247
Norway	5,691	1,922	1,524	36	506	11	0	6	965	398	3,769
Slovak Republic	2,021	628	261	17	186	4	8	2	44	367	1,393
South Korea	109,988	58,985	21,666	3,805	2,397	1,799	1,892	5,044	6,729	37,319	51,003
Spain	34,016	13,173	5,066	1,842	2,784	0	440	0	0	8,107	20,843
Sweden	12,879	6,342	2,018	79	645	246	95	267	686	4,324	6,537
Switzerland	4,778	1,605	134	77	15	0	0	6	36	1,471	3,173
Turkey	69,775	25,408	19,174	3,046	602	941	1,867	3,456	9,262	6,234	44,367
United States	530,367	225,927	166,782	17,390	26,042	26,504	6,382	10,972	79,492	59,145	304,440
Percent											
Female											
Australia	58.1	40.9	47.7	42.0	25.4	56.0	40.0	37.7	62.2	13.5	63.2
Austria	26.2	10.4	04.3	na	4.3	na	na	na	na	10.8	35.5
Canada	58.9	53.3	58.9	47.9	20.8	61.2	44.0	40.5	66.5	19.1	63.3
Czech Republic	59.2	45.2	50.4	41.1	7.4	60.8	64.2	42.0	60.0	17.9	65.8
Denmark	51.3	45.1	45.4	50.3	28.0	57.8	39.6	37.8	46.1	6.3	54.6
Finland	61.8	21.6	45.2	41.9	38.9	70.0	54.2	33.3	61.6	13.6	78.2
France	61.1	50.3	54.0	46.3	19.9	60.0	44.5	37.9	66.4	18.6	67.9
Germany	37.3	09.1	18.9	24.5	9.2	55.0	39.3	34.0	71.7	6.0	49.2
Hungary	63.4	20.8	44.0	47.0	27.1	na	na	na	na	7.3	68.5
Iceland	68.8	46.7	54.0	0.0	21.6	70.5	28.6	46.4	68.9	12.5	75.8
Ireland	55.6	45.4	52.7	33.7	36.5	62.8	39.9	46.6	73.0	14.2	60.0
Israel	61.6	51.0	57.6	50.3	na	71.0	34.6	34.3	63.6	23.6	71.0
Italy	58.6	19.8	39.6	17.6	23.9	58.2	47.5	22.5	71.2	10.6	74.0
Mexico	51.6	40.4	50.5	22.1	42.8	52.7	45.9	58.0	62.8	17.1	54.9
Netherlands	54.2	29.8	40.7	31.7	13.6	54.6	28.8	24.4	50.7	5.3	61.2
New Zealand	65.4	47.4	47.4	32.1	33.2	na	na	46.2	73.0	0.0	69.6
Norway	68.3	35.1	38.0	30.8	16.9	54.2	na	25.0	45.3	21.3	74.9
Slovak Republic	61.3	22.4	30.6	41.4	11.8	84.6	74.2	33.3	42.1	15.2	68.5
South Korea	47.6	30.3	46.3	35.1	48.2	59.1	59.5	44.1	42.8	15.7	59.2
Spain	61.1	27.3	35.4	43.1	23.5	na	54.5	na	na	21.2	69.9
Sweden	60.5	37.5	56.0	55.6	42.1	63.7	36.2	53.9	63.7	22.1	70.9
Switzerland	37.5	07.7	41.2	8.3	0.0	na	na	0.0	70.7	2.6	46.3
Turkey	41.3	37.4	42.7	38.0	22.1	61.4	46.7	45.2	40.4	12.2	43.3
United States	57.2	48.4	54.3	48.3	28.1	58.3	47.1	40.3	60.5	18.5	62.0

na not applicable

SOURCE: Organisation for Economic Co-operation and Development, OECD database, 2001.

TABLE C-17. S&amp;E associate's degrees awarded by leading institutions, by sex: 1997–2001

Academic institution	Associate's degrees	Academic institution	Associate's degrees
Female		Male	
All institutions	225,488	All institutions	228,821
Community College of the Air Force	2,306	Community College of the Air Force	11,172
Ivy Tech State College Central Office	2,182	Technical Career Institutes	2,337
Keiser College of Technology	2,136	Texas State Technical College, all campuses	2,233
Baker College of Flint	1,798	DeVry Institute of Technology (NJ)	1,768
CUNY La Guardia Community College	1,544	Purdue University, main campus	1,764
Riverside Community College	1,411	New England Institute of Technology	1,625
San Jacinto College	1,303	ECPI College of Technology	1,553
CUNY New York City Technical College	1,146	Keiser College of Technology	1,502
Sacramento City College	1,116	CUNY New York City Technical College	1,377
Ricks College	1,077	Ivy Tech State College Central Office	1,318
Columbus State Community College	1,053	Southeast Community College, Lincoln campus	1,116
City Colleges of Chicago	1,052	Ricks College	1,055
Madison Area Technical College	934	Macomb Community College	1,019
Cuyahoga Community College	918	ITT Technical Institute (Houston, TX)	1,010
Wallace Community College Hanceville	914	Baker College of Flint	1,005
Sinclair Community College	904	Heald Business College—San Jose	967
Illinois Eastern Community College	893	Pennsylvania College of Technology	966
Moraine Valley Community College	892	DeVry Institute of Technology (Phoenix, AZ)	944
Sanford Brown College	888	Heald Business College—Sacramento	896
Delaware Tech and Community College, all campuses	878	Henry Ford Community College	885
Texas State Tech College, all campuses	876	ITT Technical Institute (Tampa, FL)	873
Henry Ford Community College	873	San Jacinto College	858
Belleville Area College	862	Miami—Dade Community College	842
Robert Morris College (Chicago, IL)	848	Ferris State University	837
Mount San Jacinto College	846	ITT Technical Institute (WI)	834
Community College of Allegheny County, all campuses	825	Riverside Community College	800
Ferris State University	802	Columbus State Community College	785
Macomb Community College	802	Cincinnati State Technical and Community College	777
Tidewater Community College	753	Sinclair Community College	767
Tulsa Community College	742	Illinois Eastern Community College System Office	758
Lewis and Clark Community College	729	Tidewater Community College	729
CUNY Bronx Community College	726	ITT Technical Institute (Buena Park, CA)	728
CUNY Kingsborough Community College	723	Springfield Technical Community College	727
ECPI College of Technology	723	North Dakota State College of Science	725
Milwaukee Area Technical College	714	Grand Rapids Community College	718
Lake Land College	711	SUNY College of Technology at Alfred	718
Miami—Dade Community College	702	Hocking Technical College	712
Huertas Junior College	698	Monroe Community College	706
College of DuPage	694	Salt Lake Community College	705
St. Petersburg Junior College	679	Delaware Technical and Community College, all campuses	703
Bel-Rea Institute of Animal Technology	676	Education America—Tampa Technical Institute	694
Butte College	675	Hudson Valley Community College	689
Parkland College	675	Wentworth Institute of Technology	689
National College of Business and Technology	664	Vincennes University	675
Northwest Technical College—Bemidji	659	Sacramento City College	674
McHenry County College	617	CUNY La Guardia Community College	671
Salt Lake Community College	617	ITT Technical Institute (La Mesa, CA)	664
Waubonsee Community College	616	Heald Business College, San Francisco	659
University of Cincinnati, all campuses	612	Heald Institute of Technology, Martinez	658
Tyler Junior College	602	Heald Business College—Hayward (Hayward, CA)	653

NOTE: Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1997–2001.

TABLE C-18. S&amp;E associate's degrees awarded by leading institutions, by race/ethnicity of minority graduates: 1997–2001

Academic institution	Associate's degrees	Academic institution	Associate's degrees
<b>Asian/Pacific Islander</b>		<b>Black</b>	
All institutions	21,647	All institutions	42,797
Heald Business College–San Jose	505	Community College of the Air Force	1,734
Sacramento City College	387	CUNY New York City Technical College	1,110
CUNY New York City Technical College	375	Keiser College of Technology	943
Honolulu Community College	375	Technical Career Institutes	851
Kapiolani Community College	310	City Colleges of Chicago	628
Heald Business College, San Francisco	279	CUNY La Guardia Community College	611
City Colleges of Chicago	274	ECPI College of Technology	606
Technical Career Institutes	274	CUNY Kingsborough Community College	465
Community College of the Air Force	253	Robert Morris College (Chicago, IL)	457
CUNY La Guardia Community College	226	CUNY Bronx Community College	441
Rancho Santiago College	223	Essex County College	441
CUNY Queensborough Community College	202	DeVry Institute of Technology (NJ)	425
Heald Business College–Hayward (Hayward, CA)	202	CUNY Borough of Manhattan Community College	389
DeVry Institute of Technology (NJ)	201	Miami–Dade Community College	366
Laney College	199	Virginia College (Salem, VA)	353
San Joaquin Delta College	198	Community College of Philadelphia	335
Northern Virginia Community College	196	Strayer College	331
Pasadena City College	193	Merritt College	290
El Camino College	188	Ivy Tech State College Central Office	284
Riverside Community College	186	Sanford Brown College	268
<b>Hispanic</b>		<b>American Indian/Alaskan Native</b>	
All institutions	39,873	All institutions	4,605
Huertas Junior College	1,111	Navajo Community College	211
National College of Business and Technology	796	Oglala Lakota College	109
Texas State Technical College	756	Eastern Oklahoma State College	82
Miami–Dade Community College	749	Community College of the Air Force	78
Technical Career Institutes	749	Northeastern Oklahoma Agricultural and Mechanical College	77
CUNY La Guardia Community College	689	Tulsa Community College	77
El Paso Community College	645	Salish Kootenai College	73
CUNY Bronx Community College	515	Carl Albert State College	70
CUNY New York City Technical College	475	University of New Mexico	69
Riverside Community College	454	Blackfeet Community College	65
Instituto Commercial De PR Junior College	435	Haskell Indian Nations University	58
University of PR Humacao University College	408	Oklahoma State University	57
Colegio Universitario Del Este	405	Robeson Community College	57
South Texas Community College	390	United Tribes Technical College	55
University of PR at Aguadilla	389	Oklahoma City Community College	50
St. Philips College	380	Albuquerque Technical Vocational Institute	48
ITT Technical Institute (West Covina, CA)	379	San Juan College	47
Ramirez College of Business and Technology	379	Connors State College	44
Northern New Mexico Community College	375	Murray State College	42
San Jacinto College	366	DeVry Institute of Technology (Phoenix, AZ)	41
		Fort Belknap College	41

NOTE: Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1997–2001.

TABLE C-19. S&amp;E bachelor's degrees awarded by leading institutions, by sex: 1997–2001

Academic institution	Bachelor's degrees	Academic institution	Bachelor's degrees
Female		Male	
All institutions	780,944	All institutions	796,984
University of California–Los Angeles	8,217	University of Texas at Austin	7,673
University of Washington–Seattle	6,763	Pennsylvania State University, main campus	7,565
University of California–Davis	6,550	University of Illinois at Urbana–Champaign	7,538
University of California–Berkeley	6,483	University of California–Los Angeles	7,444
Rutgers the State Univ of NJ New Brunswick	6,236	University of California–Berkeley	7,393
University of Texas at Austin	5,417	University of Washington–Seattle	6,865
University of Michigan at Ann Arbor	5,373	University of Michigan at Ann Arbor	6,796
University of California–San Diego	5,196	Texas A&M University, main campus	6,642
University of Illinois at Urbana–Champaign	5,039	Ohio State University, main campus	6,376
University of Florida	4,845	Purdue University, main campus	6,281
University of California–Irvine	4,770	University of Florida	6,181
Michigan State University	4,690	Rutgers the State Univ of NJ New Brunswick	5,964
University of California–Santa Barbara	4,668	University of Wisconsin–Madison	5,897
Texas A&M University, main campus	4,595	University of Maryland at College Park	5,762
University of Wisconsin–Madison	4,545	Brigham Young University, main campus	5,749
Ohio State University, main campus	4,518	North Carolina State University at Raleigh	5,715
University of Maryland at College Park	4,460	Virginia Polytechnic Institute and State University	5,405
University of Minnesota–Twin Cities	4,173	Michigan State University	5,362
Pennsylvania State University, main campus	4,163	University of California–Davis	5,301
University of Colorado at Boulder	4,089	University of Minnesota–Twin Cities	5,235
University of Arizona	3,730	University of California–San Diego	5,011
University of South Florida	3,622	Georgia Institute of Technology, main campus	4,695
University of North Carolina at Chapel Hill	3,526	Cornell University, all campuses	4,671
San Diego State University	3,465	University of California–Irvine	4,512
North Carolina State University at Raleigh	3,424	University of Arizona	4,307
University of Virginia, main campus	3,393	University of Colorado at Boulder	4,278
Brigham Young University, main campus	3,369	Iowa State University	4,104
Purdue University, main campus	3,349	Arizona State University Main	3,950
Cornell University, all campuses	3,339	Auburn University, main campus	3,811
Arizona State University, main campus	3,321	California State Polytechnic University–San Luis Obispo	3,769
University of California–Santa Cruz	3,216	University of Utah	3,745
Boston University	3,091	San Diego State University	3,493
Virginia Polytechnic Institute and State University	3,023	University of Virginia, main campus	3,452
University of Massachusetts at Amherst	2,988	University of California–Santa Barbara	3,385
SUNY at Stony Brook, all campuses	2,945	University of Massachusetts at Amherst	3,272
Colorado State University	2,915	Colorado State University	3,263
SUNY at Binghamton	2,913	University of Tennessee at Knoxville	3,136
University of Oregon	2,787	University of Missouri, Columbia	3,131
Indiana University at Bloomington	2,761	University of Pittsburgh, main campus	3,100
Florida State University	2,681	SUNY at Buffalo	3,082
San Francisco State University	2,616	San Jose State University	3,081
University of Central Florida	2,597	Florida State University	3,068
Washington State University	2,591	Louisiana State University and Agricultural and Mechanical College	3,039
New York University	2,579	Kansas State University	2,968
California State University–Northridge	2,557	University of South Florida	2,912
University of Pittsburgh, main campus	2,541	SUNY at Stony Brook, all campuses	2,890
California State University–Long Beach	2,496	Clemson University	2,818
University of Georgia	2,480	Harvard University	2,810
CUNY Hunter College	2,444	Oregon State University	2,809
University of Delaware	2,393	University of Kentucky	2,804

NOTE: Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1997–2001.

TABLE C-20. S&amp;E bachelor's degrees awarded by leading institutions, by race/ethnicity of minority graduates: 1997–2001

Academic institution	Bachelor's degrees	Academic institution	Bachelor's degrees
<b>Asian/Pacific Islander</b>		<b>Black</b>	
All institutions	138,523	All institutions	126,790
University of California–Los Angeles	6,377	Florida Agricultural and Mechanical University	1,611
University of California–Berkeley	6,006	Howard University	1,462
University of California–Irvine	5,292	Southern University A&M College at Baton Rouge	1,418
University of California–Davis	3,977	North Carolina Agricultural and Technical State University	1,392
University of California–San Diego	3,598	Xavier University of Louisiana	1,272
University of Washington–Seattle	2,970	University of Maryland at College Park	1,203
University of Hawaii at Manoa	2,470	Morgan State University	1,200
Rutgers the State Univ of NJ New Brunswick	2,289	Hampton University	1,163
University of Texas at Austin	2,063	Spelman College	1,090
San Jose State University	1,966	CUNY John Jay College Criminal Justice	1,075
University of Illinois at Urbana–Champaign	1,945	Morehouse College	967
University of Michigan at Ann Arbor	1,681	Tennessee State University	955
University of Maryland at College Park	1,637	Tuskegee University	954
Cornell University, all campuses	1,576	CUNY City College	928
California State Polytechnic University Pomona	1,494	Grambling State University	909
Stanford University	1,339	Prarie View A&M University	899
SUNY at Stony Brook, all campuses	1,273	Georgia State University	852
University of California–Santa Barbara	1,269	Rutgers the State Univ of NJ New Brunswick	848
University of California–Riverside	1,255	North Carolina Central University	811
Massachusetts Institute of Technology	1,234	CUNY Herbert H. Lehman College	809
<b>Hispanic</b>		<b>American Indian/Alaskan Native</b>	
All institutions	106,462	All institutions	10,097
University of PR Mayaguez Campus	4,674	Oklahoma State University	280
University of PR Rio Piedras Campus	2,813	University of Oklahoma, Norman campus	232
Florida International University	2,610	Northeastern State University	210
University of California–Los Angeles	2,232	University of Washington–Seattle	183
University of Texas at Austin	1,786	Southeastern Oklahoma State University	169
University of California–Berkeley	1,405	University of Arizona	152
University of Texas–Pan American	1,314	University of North Carolina at Pembroke	148
San Diego State University	1,286	Northern Arizona University	141
Universidad Politecnica de Puerto Rico	1,212	University of New Mexico	131
University of Texas at San Antonio	1,188	University of California–Los Angeles	122
University of Florida	1,146	DePaul University	120
The Pontifical Catholic University of Puerto Rico	1,135	Fort Lewis College	118
University of Texas at El Paso	1,102	University of California–Davis	114
University of California–Davis	1,078	University of California–Berkeley	110
California State University–Los Angeles	1,076	Arizona State University, main campus	103
University of California–Santa Barbara	1,075	New Mexico State University	92
Texas A&M University main campus	1,067	University of California–San Diego	84
California State University–Northridge	1,049	Washington State University	82
Inter American U of PR, San German campus	1,040	California State Polytechnic University–San Luis Obispo	79
University of Arizona	1,023	East Central University	78

NOTE: Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1997–2001.



TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
All S&E graduate students	431,114	422,438	415,148	407,597	404,809	411,257	414,683	429,492
Sciences	318,090	315,237	311,924	306,449	304,771	309,566	309,999	319,986
Agricultural sciences	12,242	12,422	11,974	11,852	11,844	11,988	11,684	11,911
Biological sciences	58,033	58,680	58,060	57,044	56,994	57,115	56,494	57,826
Anatomy	1,018	982	1,019	1,003	922	886	924	867
Biochemistry	5,615	5,562	5,275	5,102	5,148	5,101	4,963	4,917
Biology	14,208	14,280	14,611	14,646	14,277	13,989	13,410	13,355
Biometry and epidemiology	2,710	2,812	3,001	2,900	3,511	3,529	3,471	3,629
Biophysics	794	845	833	748	737	710	745	893
Botany	2,748	2,609	2,504	2,402	2,328	2,261	2,176	2,182
Cell and molecular biology	3,829	3,994	4,022	4,111	4,206	4,465	4,647	4,768
Ecology	1,566	1,680	1,615	1,619	1,655	1,687	1,744	1,848
Entomology and parasitology	1,263	1,241	1,234	1,161	1,168	1,145	1,104	1,170
Genetics	1,699	1,700	1,729	1,760	1,705	1,767	1,705	1,833
Microbiology, immunology, and virology	5,094	5,026	4,912	4,805	4,773	4,815	4,815	4,798
Nutrition	4,791	5,071	4,918	4,604	4,486	4,508	4,430	4,429
Pathology	1,707	1,670	1,656	1,674	1,580	1,580	1,529	1,649
Pharmacology	2,839	2,710	2,663	2,597	2,730	2,757	2,959	3,052
Physiology	2,378	2,540	2,377	2,298	2,151	2,083	2,007	1,967
Zoology	2,028	2,006	1,852	1,669	1,622	1,558	1,481	1,448
Other	3,746	3,952	3,839	3,945	3,995	4,274	4,384	5,021
Computer sciences	34,158	33,458	34,626	35,991	38,027	42,560	47,594	52,196
Earth, atmospheric, and ocean sciences	15,957	15,716	15,183	14,548	14,258	14,083	13,940	13,841
Atmospheric sciences	1,109	1,072	1,086	1,092	965	913	963	924
Earth	7,713	7,582	7,304	6,959	6,687	6,637	6,595	6,544
Ocean sciences	2,870	2,723	2,615	2,479	2,562	2,624	2,668	2,585
Other	4,265	4,339	4,178	4,018	4,044	3,909	3,714	3,788
Mathematics and statistics	19,573	18,504	18,008	16,719	16,485	16,257	15,646	16,663
Mathematics and applied mathematics	16,457	15,386	14,948	14,027	13,827	13,521	12,819	13,594
Statistics	3,116	3,118	3,060	2,692	2,658	2,736	2,827	3,069
Physical sciences	34,466	33,399	32,333	31,105	30,575	30,691	30,463	30,988
Astronomy	973	912	874	778	820	832	888	916
Chemistry	19,803	19,570	19,334	18,774	18,482	18,416	18,188	18,300
Physics	13,162	12,425	11,728	11,147	10,809	10,869	10,836	11,264
Other	528	492	397	406	464	574	551	508
Psychology	54,554	53,641	53,122	53,126	52,557	51,864	50,704	50,798
Clinical	12,684	12,519	12,787	13,098	12,733	12,798	12,488	12,473
General	18,356	17,636	16,832	17,246	17,095	16,235	15,725	16,022
Nonclinical	23,514	23,486	23,503	22,782	22,729	22,831	22,491	22,303
Social sciences	89,107	89,417	88,618	86,064	84,031	85,008	83,474	85,763
Agricultural economics	2,289	2,338	2,117	2,043	1,995	2,014	2,079	2,161
Anthropology (cultural and social)	7,665	7,693	7,773	7,560	7,577	7,633	7,633	7,491
Economics	12,913	12,673	12,080	11,097	10,701	10,562	10,778	11,340
Geography	4,502	4,371	4,331	4,287	4,326	4,250	4,044	4,276
History and philosophy of science	387	401	409	443	508	557	532	571
Linguistics	3,279	3,194	3,156	3,068	2,935	2,799	2,674	2,744
Political science and public administration	34,317	34,298	33,252	32,083	30,828	31,381	31,179	31,850
Sociology	9,498	9,564	9,425	9,413	9,058	8,966	8,689	8,775
Other	14,257	14,885	16,075	16,070	16,103	16,846	15,866	16,555
Engineering	113,024	107,201	103,224	101,148	100,038	101,691	104,684	109,506
Aerospace	3,715	3,343	3,208	3,083	3,137	3,349	3,407	3,485
Agricultural	1,061	1,037	1,012	941	925	934	899	907
Biomedical	2,750	2,732	2,732	2,847	2,905	3,121	3,241	3,593
Chemical	7,639	7,452	7,408	7,288	7,093	6,883	7,093	6,913
Civil	19,925	19,218	18,528	17,193	16,517	16,226	16,494	16,604
Electrical	33,020	30,721	29,702	30,548	31,129	31,382	33,318	35,745

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	2,089	1,955	1,751	1,647	1,701	1,627	1,632	1,798
Industrial/manufacturing	13,992	13,475	12,675	11,957	11,221	11,803	12,253	12,940
Mechanical	17,761	16,363	15,509	15,045	14,696	14,956	15,457	15,831
Metallurgical and materials	5,228	4,956	4,747	4,688	4,680	4,481	4,377	4,721
Mining	424	373	371	348	304	328	287	240
Nuclear	1,246	1,154	980	868	821	830	792	801
Petroleum	624	610	562	561	571	642	627	680
Other	3,550	3,812	4,039	4,134	4,338	5,129	4,807	5,248
U.S. citizen/permanent resident								
S&E	328,998	323,935	317,043	308,636	302,837	301,367	292,845	296,194
Sciences	252,980	252,218	248,875	243,994	240,588	241,179	234,917	238,598
Agricultural sciences	9,121	9,343	9,044	9,146	9,261	9,514	9,324	9,408
Biological sciences	45,244	46,490	46,600	45,898	45,591	45,897	44,730	45,441
Anatomy	789	738	807	792	732	692	714	658
Biochemistry	3,796	3,860	3,750	3,691	3,695	3,646	3,368	3,338
Biology	12,225	12,303	12,641	12,609	12,197	11,997	11,385	11,209
Biometry and epidemiology	2,109	2,234	2,438	2,389	2,834	2,819	2,685	2,778
Biophysics	583	637	658	577	571	556	541	632
Botany	1,926	1,827	1,797	1,710	1,655	1,614	1,549	1,570
Cell and molecular biology	2,941	3,148	3,179	3,265	3,344	3,608	3,665	3,691
Ecology	1,392	1,518	1,453	1,450	1,484	1,513	1,560	1,656
Entomology and parasitology	899	868	916	871	877	843	824	895
Genetics	1,337	1,347	1,342	1,342	1,311	1,388	1,329	1,417
Microbiology, immunology, and virology	3,790	3,841	3,849	3,826	3,813	3,872	3,876	3,794
Nutrition	3,539	3,817	3,757	3,495	3,415	3,444	3,319	3,269
Pathology	1,344	1,328	1,326	1,380	1,292	1,285	1,226	1,356
Pharmacology	2,186	2,163	2,090	2,044	2,154	2,188	2,335	2,404
Physiology	1,785	2,012	1,929	1,875	1,713	1,629	1,561	1,536
Zoology	1,727	1,761	1,628	1,478	1,432	1,399	1,287	1,224
Other	2,876	3,088	3,040	3,104	3,072	3,404	3,506	4,014
Computer sciences	23,096	22,663	22,779	23,074	23,605	25,405	25,454	26,447
Earth, atmospheric, and ocean sciences	12,693	12,769	12,417	12,033	11,759	11,563	11,248	11,080
Atmospheric sciences	844	806	803	801	710	639	659	650
Earth	5,964	6,039	5,847	5,666	5,443	5,413	5,293	5,199
Ocean sciences	2,148	2,102	2,058	1,972	2,029	2,108	2,142	2,071
Other	3,737	3,822	3,709	3,594	3,577	3,403	3,154	3,160
Mathematics and statistics	13,510	12,695	12,247	11,175	11,064	10,330	9,612	10,193
Mathematics and applied mathematics	11,501	10,694	10,252	9,521	9,447	8,861	8,165	8,747
Statistics	2,009	2,001	1,995	1,654	1,617	1,469	1,447	1,446
Physical sciences	22,757	21,990	21,155	20,210	19,837	19,559	18,900	18,995
Astronomy	711	680	658	593	607	593	617	633
Chemistry	13,391	13,156	13,059	12,662	12,457	12,331	12,032	11,914
Physics	8,215	7,745	7,098	6,608	6,379	6,140	5,778	6,034
Other	440	409	340	347	394	495	473	414
Psychology	52,211	51,554	51,149	51,118	50,371	49,625	48,444	48,285
Clinical	12,305	12,190	12,483	12,763	12,370	12,402	12,098	12,048
General	17,562	16,906	16,169	16,579	16,400	15,515	14,917	15,094
Nonclinical	22,344	22,458	22,497	21,776	21,601	21,708	21,429	21,143
Social sciences	74,348	74,714	73,484	71,340	69,100	69,286	67,205	68,749
Agricultural economics	1,349	1,339	1,217	1,123	1,091	1,089	1,065	1,109
Anthropology (cultural and social)	6,878	6,999	7,083	6,858	6,838	6,810	6,810	6,722
Economics	7,636	7,285	6,559	5,714	5,461	5,029	4,998	5,093
Geography	4,002	3,873	3,849	3,763	3,767	3,652	3,420	3,554
History and philosophy of science	331	355	359	376	441	498	463	501
Linguistics	2,267	2,197	2,154	2,086	1,912	1,837	1,714	1,782

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	30,904	30,920	29,709	28,657	27,276	27,462	27,027	27,598
Sociology	8,163	8,356	8,294	8,252	7,949	7,790	7,443	7,469
Other	12,818	13,390	14,260	14,511	14,365	15,119	14,265	14,921
Engineering	76,018	71,717	68,168	64,642	62,249	60,188	57,928	57,596
Aerospace	2,476	2,157	1,935	1,765	1,720	1,817	1,894	1,881
Agricultural	567	554	540	521	519	526	513	497
Biomedical	1,928	1,995	2,027	2,137	2,177	2,254	2,281	2,459
Chemical	4,612	4,483	4,521	4,424	4,208	3,869	3,798	3,500
Civil	13,967	13,559	13,263	12,090	11,555	10,801	10,380	10,061
Electrical	21,612	19,504	18,332	17,903	17,328	16,282	15,520	15,772
Engineering science/physics	1,466	1,436	1,258	1,199	1,149	1,093	955	1,054
Industrial/manufacturing	10,404	10,123	9,349	8,616	7,869	8,073	7,815	7,617
Mechanical	11,940	10,905	10,026	9,351	9,046	8,760	8,551	8,290
Metallurgical and materials	3,254	3,029	2,827	2,721	2,670	2,438	2,265	2,385
Mining	232	202	237	223	228	219	155	136
Nuclear	834	774	670	565	527	498	457	445
Petroleum	240	240	201	149	123	148	265	267
Other	2,486	2,756	2,982	2,978	3,130	3,410	3,079	3,232
White								
S&E	255,633	245,831	238,001	227,975	220,631	216,785	206,163	205,757
Sciences	199,645	193,900	188,912	181,882	176,533	174,722	166,850	167,437
Agricultural sciences	8,021	8,040	7,800	7,797	7,892	8,176	7,917	7,894
Biological sciences	36,324	36,463	36,284	34,960	34,507	34,417	33,426	33,311
Anatomy	585	558	617	598	563	529	549	522
Biochemistry	2,963	2,896	2,784	2,669	2,742	2,665	2,530	2,373
Biology	9,598	9,369	9,683	9,463	9,122	8,929	8,454	8,281
Biometry and epidemiology	1,629	1,646	1,740	1,641	1,902	1,917	1,778	1,848
Biophysics	453	475	481	415	377	383	372	430
Botany	1,660	1,602	1,530	1,436	1,381	1,369	1,315	1,288
Cell and molecular biology	2,419	2,522	2,552	2,566	2,526	2,674	2,614	2,558
Ecology	1,255	1,349	1,285	1,259	1,311	1,346	1,344	1,428
Entomology and parasitology	783	771	791	749	778	757	733	764
Genetics	1,139	1,123	1,108	1,092	1,055	1,016	973	1,041
Microbiology, immunology, and virology	3,037	3,009	2,968	2,845	2,849	2,791	2,799	2,658
Nutrition	2,859	3,064	2,958	2,750	2,647	2,667	2,577	2,445
Pathology	1,049	1,071	1,060	1,044	961	926	905	968
Pharmacology	1,687	1,611	1,599	1,543	1,568	1,589	1,730	1,727
Physiology	1,358	1,461	1,390	1,283	1,220	1,119	1,058	1,035
Zoology	1,558	1,585	1,482	1,341	1,237	1,257	1,160	1,100
Other	2,292	2,351	2,256	2,266	2,268	2,483	2,535	2,845
Computer sciences	15,752	14,773	14,479	14,062	13,948	14,423	14,565	15,039
Earth, atmospheric, and ocean sciences	11,282	11,245	10,873	10,402	10,098	10,007	9,811	9,583
Atmospheric sciences	733	691	709	657	601	552	557	547
Earth	5,370	5,388	5,212	4,989	4,776	4,796	4,719	4,613
Ocean sciences	1,880	1,825	1,752	1,699	1,732	1,815	1,872	1,769
Other	3,299	3,341	3,200	3,057	2,989	2,844	2,663	2,654
Mathematics and statistics	10,490	9,654	9,196	8,351	8,097	7,659	6,966	7,386
Mathematics and applied mathematics	8,894	8,064	7,663	7,074	6,899	6,560	5,916	6,322
Statistics	1,596	1,590	1,533	1,277	1,198	1,099	1,050	1,064
Physical sciences	18,437	17,486	16,757	15,767	15,218	15,037	14,386	14,235
Astronomy	624	577	570	514	507	511	523	527
Chemistry	10,662	10,297	10,203	9,712	9,484	9,394	9,069	8,965
Physics	6,771	6,250	5,696	5,268	4,967	4,840	4,516	4,484
Other	380	362	288	273	260	292	278	259

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	42,062	40,146	39,327	38,724	37,622	36,350	33,960	33,558
Clinical	10,014	9,735	9,898	9,848	9,353	9,212	8,662	8,346
General	13,905	13,151	12,376	12,664	12,299	11,545	10,656	10,514
Nonclinical	18,143	17,260	17,053	16,212	15,970	15,593	14,642	14,698
Social sciences	57,277	56,093	54,196	51,819	49,151	48,653	45,819	46,431
Agricultural economics	1,128	1,075	999	906	860	881	866	888
Anthropology (cultural and social)	5,827	5,815	5,867	5,641	5,549	5,440	5,322	5,190
Economics	5,898	5,616	4,935	4,201	3,828	3,595	3,468	3,468
Geography	3,479	3,353	3,321	3,266	3,211	3,131	2,921	3,031
History and philosophy of science	308	317	312	303	380	424	386	414
Linguistics	1,770	1,688	1,689	1,518	1,404	1,375	1,237	1,293
Political science and public administration	23,296	22,413	20,955	19,984	18,526	18,325	17,441	17,728
Sociology	6,026	6,070	5,965	5,840	5,455	5,304	5,008	5,069
Other	9,545	9,746	10,153	10,160	9,938	10,178	9,170	9,350
Engineering	55,988	51,931	49,089	46,093	44,098	42,063	39,313	38,320
Aerospace	2,024	1,774	1,577	1,440	1,391	1,437	1,451	1,447
Agricultural	476	454	427	385	403	423	400	375
Biomedical	1,464	1,507	1,519	1,567	1,623	1,664	1,631	1,608
Chemical	3,532	3,429	3,394	3,365	3,124	2,805	2,649	2,417
Civil	11,029	10,434	9,983	9,208	8,665	8,088	7,799	7,462
Electrical	14,293	12,606	11,733	11,065	10,679	9,827	8,922	8,817
Engineering science/physics	1,172	1,102	942	881	843	787	673	717
Industrial/manufacturing	7,716	7,262	6,864	6,391	5,764	5,761	5,438	5,255
Mechanical	8,893	8,059	7,461	6,979	6,657	6,491	6,063	5,897
Metallurgical and materials	2,578	2,402	2,261	2,019	2,079	1,935	1,751	1,839
Mining	183	151	164	161	151	162	133	115
Nuclear	698	672	571	475	449	424	382	364
Petroleum	175	164	141	105	101	124	110	112
Other	1,755	1,915	2,052	2,052	2,169	2,135	1,911	1,895
Asian/Pacific Islander								
S&E	26,470	25,901	25,928	26,012	26,724	27,575	26,226	27,659
Sciences	16,683	16,883	17,488	17,879	18,712	19,414	18,142	19,057
Agricultural sciences	281	280	283	302	305	306	247	258
Biological sciences	3,949	4,299	4,465	4,486	4,447	4,468	4,238	4,719
Anatomy	104	91	107	103	77	79	85	71
Biochemistry	526	595	611	566	527	541	418	477
Biology	883	833	875	882	817	793	739	762
Biometry and epidemiology	209	254	324	314	357	375	410	419
Biophysics	99	111	109	86	90	100	99	132
Botany	107	91	90	76	92	77	76	99
Cell and molecular biology	296	345	357	353	441	472	491	520
Ecology	30	32	37	47	50	45	42	47
Entomology and parasitology	47	35	40	41	37	19	24	46
Genetics	103	112	119	131	126	161	109	147
Microbiology, immunology, and virology	356	404	428	475	444	412	413	479
Nutrition	246	281	309	285	269	255	230	254
Pathology	157	162	138	171	166	180	153	186
Pharmacology	251	289	256	245	299	288	288	335
Physiology	206	321	318	333	265	276	264	288
Zoology	59	60	59	53	61	49	28	33
Other	270	283	288	325	329	346	369	424
Computer sciences	4,046	4,043	4,266	4,626	5,219	6,156	5,558	5,716
Earth, atmospheric, and ocean sciences	449	419	409	417	424	400	351	352
Atmospheric sciences	66	69	52	56	55	41	41	37
Earth	180	151	145	166	153	144	132	139

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Ocean sciences	74	83	80	60	62	67	64	51
Other	129	116	132	135	154	148	114	125
Mathematics and statistics	1,208	1,121	1,223	1,051	1,174	1,002	963	997
Mathematics and applied mathematics	1,008	904	943	820	939	799	757	825
Statistics	200	217	280	231	235	203	206	172
Physical sciences	1,923	1,780	1,745	1,638	1,760	1,682	1,620	1,612
Astronomy	35	30	38	39	32	31	33	36
Chemistry	1,174	1,122	1,144	1,106	1,179	1,133	1,156	1,104
Physics	681	611	542	467	528	490	412	455
Other	33	17	21	26	21	28	19	17
Psychology	1,583	1,598	1,757	1,909	2,019	2,043	2,076	2,165
Clinical	481	470	494	557	553	579	569	574
General	542	539	585	610	703	675	722	729
Nonclinical	560	589	678	742	763	789	785	862
Social sciences	3,244	3,343	3,340	3,450	3,364	3,357	3,089	3,238
Agricultural economics	51	66	53	49	54	53	30	29
Anthropology (cultural and social)	192	208	242	236	241	256	259	253
Economics	658	580	536	552	611	597	495	502
Geography	108	127	131	119	87	101	81	97
History and philosophy of science	9	14	18	21	22	20	20	21
Linguistics	186	179	181	212	187	148	106	154
Political science and public administration	1,092	1,227	1,155	1,264	1,180	1,163	1,208	1,215
Sociology	412	413	440	399	405	398	355	359
Other	536	529	584	598	577	621	535	608
Engineering	9,787	9,018	8,440	8,133	8,012	8,161	8,084	8,602
Aerospace	223	177	159	153	140	153	206	203
Agricultural	50	43	57	47	43	41	38	44
Biomedical	247	281	284	313	268	308	361	423
Chemical	524	458	482	512	469	486	550	576
Civil	1,339	1,322	1,254	1,050	1,104	931	770	789
Electrical	4,098	3,707	3,543	3,487	3,435	3,488	3,418	3,728
Engineering science/physics	174	185	153	202	187	170	103	123
Industrial/manufacturing	882	855	750	739	643	784	734	696
Mechanical	1,421	1,225	1,073	947	973	1,008	1,121	1,072
Metallurgical and materials	346	311	272	295	272	240	246	244
Mining	30	34	19	46	57	50	11	12
Nuclear	75	49	46	38	36	22	24	27
Petroleum	31	42	44	16	7	11	38	39
Other	347	329	304	288	378	469	464	626
Black								
S&E	17,610	18,285	19,066	19,341	19,649	20,330	20,977	21,773
Sciences	14,826	15,428	16,167	16,462	16,828	17,365	17,975	18,852
Agricultural sciences	240	297	270	230	313	277	266	301
Biological sciences	1,709	1,882	2,008	2,163	2,171	2,244	2,264	2,369
Anatomy	40	39	34	41	38	35	35	26
Biochemistry	113	110	116	126	143	140	144	129
Biology	567	646	733	763	741	744	746	755
Biometry and epidemiology	108	138	145	160	181	185	159	171
Biophysics	17	21	18	17	18	17	16	17
Botany	52	35	64	88	59	55	42	48
Cell and molecular biology	66	74	85	107	116	110	129	137
Ecology	12	15	17	11	17	22	24	26
Entomology and parasitology	16	12	16	14	11	17	14	15
Genetics	45	36	32	37	43	50	55	54
Microbiology, immunology, and virology	129	150	171	194	172	186	192	178
Nutrition	150	192	179	196	213	218	213	231

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Pathology	39	28	30	39	44	49	43	50
Pharmacology	94	101	105	114	136	151	146	166
Physiology	99	99	95	101	95	78	103	98
Zoology	23	24	17	13	16	16	13	10
Other	139	162	151	142	128	171	190	258
Computer sciences	1,182	1,155	1,276	1,300	1,355	1,501	1,533	1,726
Earth, atmospheric, and ocean sciences	202	215	219	203	202	213	220	227
Atmospheric sciences	12	18	15	12	8	7	18	19
Earth	56	67	70	56	59	62	56	57
Ocean sciences	41	34	33	26	25	28	28	31
Other	93	96	101	109	110	116	118	120
Mathematics and statistics	673	689	711	657	613	594	569	591
Mathematics and applied mathematics	611	616	639	607	561	543	506	526
Statistics	62	73	72	50	52	51	63	65
Physical sciences	856	897	986	952	913	903	916	879
Astronomy	8	11	14	11	9	9	9	12
Chemistry	596	624	679	667	635	633	648	631
Physics	242	248	280	245	242	234	235	215
Other	10	14	13	29	27	27	24	21
Psychology	3,529	3,359	3,452	3,644	3,813	3,787	4,265	4,621
Clinical	632	602	652	736	725	710	756	751
General	1,395	1,455	1,443	1,544	1,507	1,405	1,475	1,724
Nonclinical	1,502	1,302	1,357	1,364	1,581	1,672	2,034	2,146
Social sciences	6,435	6,934	7,245	7,313	7,448	7,846	7,942	8,138
Agricultural economics	77	69	62	65	70	84	80	76
Anthropology (cultural and social)	209	215	251	254	266	291	278	274
Economics	370	399	371	324	317	291	323	314
Geography	124	98	109	83	108	92	90	114
History and philosophy of science	7	8	10	8	12	14	14	16
Linguistics	59	51	43	45	46	49	44	47
Political science and public administration	3,228	3,552	3,627	3,699	3,795	4,098	4,088	4,255
Sociology	943	957	1,019	1,053	1,114	1,061	996	999
Other	1,418	1,585	1,753	1,782	1,720	1,866	2,029	2,043
Engineering	2,784	2,857	2,899	2,879	2,821	2,965	3,002	2,921
Aerospace	61	51	47	35	34	52	57	45
Agricultural	16	20	17	21	27	23	23	26
Biomedical	61	72	84	83	86	104	114	121
Chemical	157	175	191	172	185	147	169	167
Civil	424	471	491	443	410	450	450	431
Electrical	861	821	777	871	872	885	831	813
Engineering science/physics	44	37	40	39	39	35	34	33
Industrial/manufacturing	514	541	535	489	465	541	577	591
Mechanical	398	403	417	428	412	375	398	354
Metallurgical and materials	89	88	104	112	75	92	94	107
Mining	2	2	0	0	1	1	5	1
Nuclear	22	23	16	21	13	15	17	13
Petroleum	7	5	2	8	5	5	7	4
Other	128	148	178	157	197	240	226	215
Hispanic								
S&E	13,273	14,112	14,571	14,984	15,485	16,533	17,220	17,983
Sciences	10,410	11,304	11,635	12,172	12,585	13,609	14,200	14,785
Agricultural sciences	268	289	374	408	387	417	433	422
Biological sciences	1,647	1,825	1,851	1,990	2,056	2,186	2,188	2,338
Anatomy	25	27	27	15	15	27	26	22
Biochemistry	115	122	111	148	141	152	143	171
Biology	553	617	621	694	691	676	710	700

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biometry and epidemiology	100	116	123	137	160	161	165	148
Biophysics	10	14	14	17	14	17	13	20
Botany	56	41	55	50	56	49	40	44
Cell and molecular biology	106	113	111	113	122	152	155	180
Ecology	42	43	51	47	43	41	51	58
Entomology and parasitology	27	26	43	42	26	27	31	39
Genetics	34	39	34	42	51	58	57	67
Microbiology, immunology, and virology	150	167	164	170	187	201	196	220
Nutrition	142	144	163	155	172	186	152	162
Pathology	35	39	39	44	42	56	54	67
Pharmacology	80	74	76	85	88	92	112	113
Physiology	51	75	60	65	70	84	65	60
Zoology	43	47	39	30	36	31	28	29
Other	78	121	120	136	142	176	190	238
Computer sciences	631	664	700	723	754	872	872	901
Earth, atmospheric, and ocean sciences	339	365	374	399	370	400	355	397
Atmospheric sciences	14	10	11	12	13	7	12	15
Earth	140	152	141	161	137	154	136	155
Ocean sciences	88	99	106	116	108	132	113	137
Other	97	104	116	110	112	107	94	90
Mathematics and statistics	369	400	425	427	454	447	460	498
Mathematics and applied mathematics	331	369	376	386	404	399	413	458
Statistics	38	31	49	41	50	48	47	40
Physical sciences	675	731	742	782	832	895	846	896
Astronomy	16	16	13	11	12	13	17	17
Chemistry	442	485	504	523	562	618	602	629
Physics	211	219	216	237	226	229	204	239
Other	6	11	9	11	32	35	23	11
Psychology	2,485	2,799	2,937	3,075	3,228	3,575	4,154	4,323
Clinical	644	812	842	925	1,119	1,182	1,403	1,488
General	823	827	890	909	911	931	971	1,017
Nonclinical	1,018	1,160	1,205	1,241	1,198	1,462	1,780	1,818
Social sciences	3,996	4,231	4,232	4,368	4,504	4,817	4,892	5,010
Agricultural economics	52	55	60	53	42	36	39	40
Anthropology (cultural and social)	295	345	336	338	344	327	367	383
Economics	355	364	310	277	276	247	238	306
Geography	118	100	90	91	98	111	98	106
History and philosophy of science	5	4	8	10	12	22	17	18
Linguistics	158	138	131	157	150	135	142	126
Political science and public administration	1,786	1,927	1,895	1,926	1,989	2,166	2,304	2,171
Sociology	473	507	518	581	602	641	607	605
Other	754	791	884	935	991	1,132	1,080	1,255
Engineering	2,863	2,808	2,936	2,812	2,900	2,924	3,020	3,198
Aerospace	75	65	62	71	76	80	80	70
Agricultural	11	18	19	17	15	16	22	27
Biomedical	79	58	60	56	80	86	92	101
Chemical	171	202	200	142	179	182	181	180
Civil	551	593	712	694	723	701	779	746
Electrical	855	784	793	810	812	769	717	825
Engineering science/physics	38	31	55	41	42	44	36	40
Industrial/manufacturing	384	386	421	396	364	426	440	469
Mechanical	453	422	383	360	389	388	365	425
Metallurgical and materials	122	102	89	86	84	75	84	80
Mining	2	3	4	7	4	2	2	3

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	26	21	20	22	22	28	30	34
Petroleum	14	21	13	10	6	5	59	63
Other	82	102	105	100	104	122	133	135
American Indian/Alaskan Native								
S&E	1,382	1,516	1,538	1,599	1,607	1,556	1,604	1,687
Sciences	1,141	1,286	1,304	1,360	1,371	1,314	1,395	1,460
Agricultural sciences	38	60	48	62	70	68	56	57
Biological sciences	183	205	200	197	192	186	188	205
Anatomy	1	1	4	3	3	3	4	4
Biochemistry	13	16	14	15	13	6	8	15
Biology	55	63	62	60	51	59	58	52
Biometry and epidemiology	11	13	9	11	7	6	11	11
Biophysics	1	2	0	1	1	1	1	1
Botany	11	6	4	3	3	4	3	9
Cell and molecular biology	11	12	8	9	11	9	12	10
Ecology	7	7	3	8	5	5	5	8
Entomology and parasitology	0	1	2	1	3	1	1	2
Genetics	0	1	4	6	4	4	6	7
Microbiology, immunology, and virology	19	16	14	10	18	15	21	13
Nutrition	11	17	14	12	16	15	13	15
Pathology	4	3	9	11	10	7	6	11
Pharmacology	11	17	8	5	6	14	8	10
Physiology	10	6	9	7	10	8	3	7
Zoology	7	11	18	12	9	7	7	8
Other	11	13	18	23	22	22	21	22
Computer sciences	44	56	54	60	92	75	81	88
Earth, atmospheric, and ocean sciences	48	52	65	82	84	63	61	70
Atmospheric sciences	3	4	3	2	2	2	3	4
Earth	29	27	31	38	36	26	27	32
Ocean sciences	6	8	12	17	16	12	10	12
Other	10	13	19	25	30	23	21	22
Mathematics and statistics	36	70	41	43	34	30	24	38
Mathematics and applied mathematics	31	57	36	40	30	26	19	34
Statistics	5	13	5	3	4	4	5	4
Physical sciences	67	76	60	70	64	69	75	81
Astronomy	3	3	2	1	2	2	1	0
Chemistry	46	43	45	50	46	53	61	62
Physics	16	30	13	18	14	13	12	19
Other	2	0	0	1	2	1	1	0
Psychology	317	330	359	341	311	303	362	336
Clinical	93	102	117	111	112	93	104	92
General	112	109	118	109	93	96	124	104
Nonclinical	112	119	124	121	106	114	134	140
Social sciences	408	437	477	505	524	520	548	585
Agricultural economics	5	5	5	3	5	7	7	4
Anthropology (cultural and social)	89	103	106	103	119	105	108	102
Economics	19	21	16	16	16	13	19	21
Geography	17	23	18	15	13	14	20	28
History and philosophy of science	1	1	0	1	1	2	2	2
Linguistics	7	9	4	7	9	15	13	13
Political science and public administration	145	140	154	155	172	177	175	190
Sociology	57	49	63	76	68	66	67	66
Other	68	86	111	129	121	121	137	159
Engineering	241	230	234	239	236	242	209	227
Aerospace	6	8	5	3	7	8	8	8
Agricultural	0	1	1	8	4	1	3	3



TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biomedical	15	4	6	6	7	8	5	5
Chemical	18	21	31	18	21	16	20	13
Civil	38	42	48	58	43	56	39	43
Electrical	52	51	50	46	33	47	37	45
Engineering science/physics	4	5	3	4	7	6	8	9
Industrial/manufacturing	24	24	22	23	34	39	41	43
Mechanical	54	44	35	35	25	33	28	32
Metallurgical and materials	6	8	8	11	33	10	5	8
Mining	1	0	1	0	0	0	1	0
Nuclear	4	2	3	3	2	2	1	0
Petroleum	2	2	1	2	2	0	1	1
Other	17	18	20	22	18	16	12	17
Other race/ethnicity								
S&E	14,630	18,290	17,939	18,725	18,741	18,588	20,655	21,335
Sciences	10,275	13,417	13,369	14,239	14,559	14,755	16,355	17,007
Agricultural sciences	273	377	269	347	294	270	405	476
Biological sciences	1,432	1,816	1,792	2,102	2,218	2,396	2,426	2,499
Anatomy	34	22	18	32	36	19	15	13
Biochemistry	66	121	114	167	129	142	125	173
Biology	569	775	667	747	775	796	678	659
Biometry and epidemiology	52	67	97	126	227	175	162	181
Biophysics	3	14	36	41	71	38	40	32
Botany	40	52	54	57	64	60	73	82
Cell and molecular biology	43	82	66	117	128	191	264	286
Ecology	46	72	60	78	58	54	94	89
Entomology and parasitology	26	23	24	24	22	22	21	29
Genetics	16	36	45	34	32	99	129	101
Microbiology, immunology, and virology	99	95	104	132	143	267	255	246
Nutrition	131	119	134	97	98	103	134	162
Pathology	60	25	50	71	69	67	65	74
Pharmacology	63	71	46	52	57	54	51	53
Physiology	61	50	57	86	53	64	68	48
Zoology	37	34	13	29	73	39	51	44
Other	86	158	207	212	183	206	201	227
Computer sciences	1,441	1,972	2,004	2,303	2,237	2,378	2,845	2,977
Earth, atmospheric, and ocean sciences	373	473	477	530	581	480	450	451
Atmospheric sciences	16	14	13	62	31	30	28	28
Earth	189	254	248	256	282	231	223	203
Ocean sciences	59	53	75	54	86	54	55	71
Other	109	152	141	158	182	165	144	149
Mathematics and statistics	734	761	651	646	692	598	630	683
Mathematics and applied mathematics	626	684	595	594	614	534	554	582
Statistics	108	77	56	52	78	64	76	101
Physical sciences	799	1,020	865	1,001	1,050	973	1,057	1,292
Astronomy	25	43	21	17	45	27	34	41
Chemistry	471	585	484	604	551	500	496	523
Physics	294	387	351	373	402	334	399	622
Other	9	5	9	7	52	112	128	106
Psychology	2,235	3,322	3,317	3,425	3,378	3,567	3,627	3,282
Clinical	441	469	480	586	508	626	604	797
General	785	825	757	743	887	863	969	1,006
Nonclinical	1,009	2,028	2,080	2,096	1,983	2,078	2,054	1,479
Social sciences	2,988	3,676	3,994	3,885	4,109	4,093	4,915	5,347
Agricultural economics	36	69	38	47	60	28	43	72
Anthropology (cultural and social)	266	313	281	286	319	391	476	520
Economics	336	305	391	344	413	286	455	482

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Geography	156	172	180	189	250	203	210	178
History and philosophy of science	1	11	11	33	14	16	24	30
Linguistics	87	132	106	147	116	115	172	149
Political science and public administration	1,357	1,661	1,923	1,629	1,614	1,533	1,811	2,039
Sociology	252	360	289	303	305	320	410	371
Other	497	653	775	907	1,018	1,201	1,314	1,506
Engineering	4,355	4,873	4,570	4,486	4,182	3,833	4,300	4,328
Aerospace	87	82	85	63	72	87	92	108
Agricultural	14	18	19	43	27	22	27	22
Biomedical	62	73	74	112	113	84	78	201
Chemical	210	198	223	215	230	233	229	147
Civil	586	697	775	637	610	575	543	590
Electrical	1,453	1,535	1,436	1,624	1,497	1,266	1,595	1,544
Engineering science/physics	34	76	65	32	31	51	101	132
Industrial/manufacturing	884	1,055	757	578	599	522	585	563
Mechanical	721	752	657	602	590	465	576	510
Metallurgical and materials	113	118	93	198	127	86	85	107
Mining	14	12	49	9	15	4	3	5
Nuclear	9	7	14	6	5	7	3	7
Petroleum	11	6	0	8	2	3	50	48
Other	157	244	323	359	264	428	333	344
Temporary resident								
S&E	102,116	98,503	98,105	98,961	101,972	109,890	121,838	133,298
Sciences	65,110	63,019	63,049	62,455	64,183	68,387	75,082	81,388
Agricultural sciences	3,121	3,079	2,930	2,706	2,583	2,474	2,360	2,503
Biological sciences	12,789	12,190	11,460	11,146	11,403	11,218	11,764	12,385
Anatomy	229	244	212	211	190	194	210	209
Biochemistry	1,819	1,702	1,525	1,411	1,453	1,455	1,595	1,579
Biology	1,983	1,977	1,970	2,037	2,080	1,992	2,025	2,146
Biometry and epidemiology	601	578	563	511	677	710	786	851
Biophysics	211	208	175	171	166	154	204	261
Botany	822	782	707	692	673	647	627	612
Cell and molecular biology	888	846	843	846	862	857	982	1,077
Ecology	174	162	162	169	171	174	184	192
Entomology and parasitology	364	373	318	290	291	302	280	275
Genetics	362	353	387	418	394	379	376	416
Microbiology, immunology, and virology	1,304	1,185	1,063	979	960	943	939	1,004
Nutrition	1,252	1,254	1,161	1,109	1,071	1,064	1,111	1,160
Pathology	363	342	330	294	288	295	303	293
Pharmacology	653	547	573	553	576	569	624	648
Physiology	593	528	448	423	438	454	446	431
Zoology	301	245	224	191	190	159	194	224
Other	870	864	799	841	923	870	878	1,007
Computer sciences	11,062	10,795	11,847	12,917	14,422	17,155	22,140	25,749
Earth, atmospheric, and ocean sciences	3,264	2,947	2,766	2,515	2,499	2,520	2,692	2,761
Atmospheric sciences	265	266	283	291	255	274	304	274
Earth	1,749	1,543	1,457	1,293	1,244	1,224	1,302	1,345
Ocean sciences	722	621	557	507	533	516	526	514
Other	528	517	469	424	467	506	560	628
Mathematics and statistics	6,063	5,809	5,761	5,544	5,421	5,927	6,034	6,470
Mathematics and applied mathematics	4,956	4,692	4,696	4,506	4,380	4,660	4,654	4,847
Statistics	1,107	1,117	1,065	1,038	1,041	1,267	1,380	1,623
Physical sciences	11,709	11,409	11,178	10,895	10,738	11,132	11,563	11,993
Astronomy	262	232	216	185	213	239	271	283
Chemistry	6,412	6,414	6,275	6,112	6,025	6,085	6,156	6,386

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Physics	4,947	4,680	4,630	4,539	4,430	4,729	5,058	5,230
Other	88	83	57	59	70	79	78	94
Psychology	2,343	2,087	1,973	2,008	2,186	2,239	2,260	2,513
Clinical	379	329	304	335	363	396	390	425
General	794	730	663	667	695	720	808	928
Nonclinical	1,170	1,028	1,006	1,006	1,128	1,123	1,062	1,160
Social sciences	14,759	14,703	15,134	14,724	14,931	15,722	16,269	17,014
Agricultural economics	940	999	900	920	904	925	1,014	1,052
Anthropology (cultural and social)	787	694	690	702	739	823	823	769
Economics	5,277	5,388	5,521	5,383	5,240	5,533	5,780	6,247
Geography	500	498	482	524	559	598	624	722
History and philosophy of science	56	46	50	67	67	59	69	70
Linguistics	1,012	997	1,002	982	1,023	962	960	962
Political science and public administration	3,413	3,378	3,543	3,426	3,552	3,919	4,152	4,252
Sociology	1,335	1,208	1,131	1,161	1,109	1,176	1,246	1,306
Other	1,439	1,495	1,815	1,559	1,738	1,727	1,601	1,634
Engineering	37,006	35,484	35,056	36,506	37,789	41,503	46,756	51,910
Aerospace	1,239	1,186	1,273	1,318	1,417	1,532	1,513	1,604
Agricultural	494	483	472	420	406	408	386	410
Biomedical	822	737	705	710	728	867	960	1,134
Chemical	3,027	2,969	2,887	2,864	2,885	3,014	3,295	3,413
Civil	5,958	5,659	5,265	5,103	4,962	5,425	6,114	6,543
Electrical	11,408	11,217	11,370	12,645	13,801	15,100	17,798	19,973
Engineering science/physics	623	519	493	448	552	534	677	744
Industrial/manufacturing	3,588	3,352	3,326	3,341	3,352	3,730	4,438	5,323
Mechanical	5,821	5,458	5,483	5,694	5,650	6,196	6,906	7,541
Metallurgical and materials	1,974	1,927	1,920	1,967	2,010	2,043	2,112	2,336
Mining	192	171	134	125	76	109	132	104
Nuclear	412	380	310	303	294	332	335	356
Petroleum	384	370	361	412	448	494	362	413
Other	1,064	1,056	1,057	1,156	1,208	1,719	1,728	2,016

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
All S&E graduate students	159,093	160,190	161,649	161,989	163,403	168,425	170,801	177,644
Sciences	141,043	142,177	143,395	143,269	144,415	148,538	149,989	155,417
Agricultural sciences	4,315	4,459	4,449	4,561	4,719	4,910	4,931	5,202
Biological sciences	28,137	28,851	28,771	28,617	29,079	29,673	29,918	31,096
Anatomy	493	465	467	460	413	416	436	419
Biochemistry	2,377	2,414	2,288	2,176	2,229	2,266	2,224	2,223
Biology	6,748	6,903	7,129	7,287	7,213	7,143	7,009	7,170
Biometry/epidemiology	1,586	1,673	1,774	1,781	2,159	2,242	2,192	2,358
Biophysics	218	241	244	216	209	213	229	265
Botany	1,164	1,144	1,110	1,119	1,118	1,093	1,099	1,084
Cell/molecular biology	1,762	1,848	1,894	1,959	2,052	2,273	2,402	2,446
Ecology	745	774	768	781	823	870	906	960
Entomology/parasitology	417	414	424	410	414	406	442	480
Genetics	912	882	901	959	970	1,007	968	1,041
Microbiology, immunology, and virology	2,490	2,457	2,432	2,396	2,371	2,450	2,434	2,495
Nutrition	3,518	3,775	3,680	3,460	3,413	3,431	3,396	3,436
Pathology	782	780	809	832	804	804	828	901
Pharmacology	1,352	1,311	1,291	1,229	1,325	1,343	1,515	1,606
Physiology	986	1,058	981	934	886	898	877	911
Zoology	844	831	787	722	712	686	660	685
Other	1,743	1,881	1,792	1,896	1,968	2,132	2,301	2,616
Computer sciences	8,087	8,133	8,797	9,881	10,802	12,570	14,163	15,294
Earth, atmospheric, and ocean sciences	5,319	5,434	5,447	5,416	5,568	5,725	5,751	5,892
Atmospheric	242	237	234	263	234	242	268	298
Earth	2,223	2,283	2,320	2,296	2,315	2,400	2,453	2,483
Ocean	1,115	1,107	1,070	1,055	1,162	1,222	1,267	1,255
Other	1,739	1,807	1,823	1,802	1,857	1,861	1,763	1,856
Mathematics/statistics	6,531	6,258	6,219	5,868	5,988	6,043	5,781	6,277
Mathematics/applied mathematics	5,402	5,069	4,986	4,783	4,895	4,862	4,509	4,828
Statistics	1,129	1,189	1,233	1,085	1,093	1,181	1,272	1,449
Physical sciences	9,167	9,085	9,045	8,848	8,753	8,915	9,128	9,332
Astronomy	223	223	227	208	230	225	267	265
Chemistry	6,845	6,828	6,839	6,722	6,564	6,617	6,773	6,848
Physics	1,908	1,835	1,809	1,744	1,780	1,876	1,906	2,045
Other	191	199	170	174	179	197	182	174
Psychology	38,138	37,764	37,747	37,619	37,462	37,370	37,030	37,583
Clinical	8,998	8,932	9,087	9,312	9,173	9,285	9,283	9,389
General	12,369	11,995	11,646	11,874	11,844	11,384	11,087	11,438
Nonclinical	16,771	16,837	17,014	16,433	16,445	16,701	16,660	16,756
Social sciences	41,349	42,193	42,920	42,459	42,044	43,332	43,287	44,741
Agricultural economics	748	783	710	688	680	715	789	835
Anthropology (cultural and social)	4,593	4,553	4,686	4,501	4,556	4,644	4,688	4,562
Economics	3,793	3,876	3,783	3,512	3,464	3,499	3,773	3,982
Geography	1,598	1,585	1,561	1,625	1,663	1,703	1,631	1,786
History and philosophy of science	140	139	152	162	193	212	219	244
Linguistics	2,066	2,000	2,023	2,017	1,953	1,833	1,744	1,793
Political science and public administration	15,584	15,950	15,632	15,404	14,961	15,575	15,944	16,518
Sociology	5,740	5,783	5,785	5,822	5,696	5,739	5,604	5,709
Other	7,087	7,524	8,588	8,728	8,878	9,412	8,895	9,312
Engineering	18,050	18,013	18,254	18,720	18,988	19,887	20,812	22,227
Aerospace	358	351	352	371	382	423	469	485
Agricultural	200	202	210	218	243	251	268	284
Biomedical	697	726	733	826	870	1,004	1,070	1,241
Chemical	1,529	1,567	1,651	1,720	1,727	1,733	1,881	1,829
Civil	4,211	4,232	4,300	4,164	4,102	4,157	4,286	4,479
Electrical	4,102	4,088	4,122	4,438	4,747	4,973	5,351	6,030

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	306	297	295	278	331	319	342	363
Industrial/manufacturing	2,857	2,823	2,769	2,656	2,452	2,659	2,734	2,808
Mechanical	1,823	1,677	1,636	1,779	1,762	1,788	1,853	1,939
Metallurgical/materials	1,083	1,074	1,077	1,117	1,130	1,084	1,041	1,173
Mining	50	42	54	63	55	55	46	36
Nuclear	153	145	153	143	134	144	156	157
Petroleum	59	71	60	77	55	82	87	92
Other	622	718	842	870	998	1,215	1,228	1,311
U.S. citizen/permanent resident								
S&E	133,214	134,028	134,535	133,712	133,366	135,475	134,240	137,236
Sciences	120,008	121,051	121,700	121,181	120,985	123,094	122,008	124,722
Agricultural sciences	3,475	3,599	3,607	3,747	3,896	4,084	4,108	4,258
Biological sciences	22,583	23,389	23,493	23,473	23,606	24,215	24,070	24,749
Anatomy	388	358	381	380	341	332	350	330
Biochemistry	1,623	1,670	1,615	1,581	1,596	1,604	1,507	1,467
Biology	5,850	5,973	6,187	6,312	6,192	6,166	5,994	6,063
Biometry/epidemiology	1,299	1,381	1,495	1,525	1,822	1,877	1,766	1,864
Biophysics	165	183	192	171	164	170	174	190
Botany	851	832	838	833	817	810	812	798
Cell/molecular biology	1,376	1,474	1,496	1,565	1,640	1,817	1,862	1,859
Ecology	672	713	702	719	751	796	821	876
Entomology/parasitology	311	309	326	325	334	322	357	395
Genetics	751	745	748	780	775	837	788	843
Microbiology, immunology, and virology	1,919	1,934	1,945	1,943	1,907	1,968	1,961	1,951
Nutrition	2,789	3,040	2,971	2,764	2,707	2,745	2,668	2,672
Pathology	644	640	674	707	671	678	696	765
Pharmacology	1,052	1,059	1,012	960	1,043	1,064	1,196	1,256
Physiology	765	843	797	765	702	710	687	698
Zoology	733	738	693	647	634	618	566	586
Other	1,395	1,497	1,421	1,496	1,510	1,701	1,865	2,136
Computer sciences	5,668	5,537	5,736	6,198	6,577	7,437	7,528	7,742
Earth, atmospheric, and ocean sciences	4,442	4,637	4,675	4,697	4,805	4,868	4,855	4,916
Atmospheric	157	151	151	165	146	137	166	195
Earth	1,842	1,950	2,001	2,006	2,021	2,069	2,098	2,100
Ocean	902	938	903	891	980	1,038	1,065	1,049
Other	1,541	1,598	1,620	1,635	1,658	1,624	1,526	1,572
Mathematics/statistics	4,842	4,602	4,557	4,169	4,205	3,982	3,670	3,941
Mathematics/applied mathematics	4,101	3,849	3,759	3,513	3,563	3,367	3,043	3,309
Statistics	741	753	798	656	642	615	627	632
Physical sciences	6,198	6,050	6,004	5,837	5,833	5,862	5,868	5,910
Astronomy	174	170	178	169	181	172	197	191
Chemistry	4,653	4,582	4,611	4,537	4,441	4,477	4,510	4,500
Physics	1,197	1,120	1,070	981	1,062	1,047	1,002	1,079
Other	174	178	145	150	149	166	159	140
Psychology	36,736	36,534	36,482	36,361	36,074	35,921	35,523	35,846
Clinical	8,756	8,735	8,884	9,084	8,923	9,005	8,977	9,058
General	11,946	11,608	11,258	11,495	11,458	10,949	10,591	10,835
Nonclinical	16,034	16,191	16,340	15,782	15,693	15,967	15,955	15,953
Social sciences	36,064	36,703	37,146	36,699	35,989	36,725	36,386	37,360
Agricultural economics	473	480	441	414	390	393	413	423
Anthropology (cultural and social)	4,200	4,210	4,324	4,127	4,169	4,196	4,227	4,141
Economics	2,345	2,284	2,135	1,867	1,808	1,719	1,837	1,832
Geography	1,426	1,408	1,397	1,428	1,454	1,466	1,388	1,496
History and philosophy of science	126	126	137	141	170	194	189	219
Linguistics	1,479	1,423	1,403	1,388	1,297	1,233	1,130	1,161

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	14,394	14,653	14,277	14,045	13,537	13,934	14,148	14,608
Sociology	5,094	5,196	5,237	5,239	5,098	5,074	4,885	4,923
Other	6,527	6,923	7,795	8,050	8,066	8,516	8,169	8,557
Engineering	13,206	12,977	12,835	12,531	12,381	12,381	12,232	12,514
Aerospace	261	256	246	227	224	255	282	282
Agricultural	100	101	108	128	141	150	173	182
Biomedical	522	562	569	646	676	744	778	871
Chemical	1,054	1,045	1,064	1,076	1,059	1,020	1,067	998
Civil	3,310	3,265	3,317	3,115	3,046	2,955	2,923	2,943
Electrical	2,686	2,570	2,464	2,440	2,461	2,339	2,281	2,402
Engineering science/physics	222	228	216	209	220	215	195	209
Industrial/manufacturing	2,298	2,306	2,219	2,079	1,869	2,003	1,923	1,891
Mechanical	1,369	1,224	1,144	1,166	1,153	1,141	1,085	1,125
Metallurgical/materials	766	742	703	701	677	618	581	622
Mining	35	27	41	55	51	43	32	32
Nuclear	103	100	105	100	88	87	95	88
Petroleum	23	27	16	18	15	17	40	40
Other	457	524	623	571	701	794	777	829
White								
S&E	102,070	99,828	98,687	96,493	94,913	94,939	91,972	92,678
Sciences	92,844	90,954	90,067	88,222	86,747	87,075	84,298	85,117
Agricultural sciences	2,995	3,018	3,033	3,135	3,247	3,435	3,411	3,478
Biological sciences	17,910	18,118	18,037	17,526	17,536	17,838	17,771	17,890
Anatomy	281	264	281	287	268	256	277	267
Biochemistry	1,246	1,223	1,172	1,088	1,144	1,158	1,122	1,017
Biology	4,465	4,448	4,607	4,591	4,486	4,459	4,352	4,365
Biometry/epidemiology	985	1,011	1,057	1,044	1,198	1,266	1,148	1,225
Biophysics	122	137	143	126	111	117	120	138
Botany	739	727	709	693	670	684	693	658
Cell/molecular biology	1,127	1,195	1,200	1,219	1,216	1,311	1,299	1,254
Ecology	599	637	625	634	666	698	699	744
Entomology/parasitology	266	263	277	271	291	283	310	341
Genetics	644	630	632	639	633	625	591	632
Microbiology, immunology, and virology	1,515	1,485	1,481	1,395	1,382	1,387	1,390	1,353
Nutrition	2,281	2,444	2,353	2,171	2,100	2,124	2,083	2,009
Pathology	512	525	544	531	501	490	525	558
Pharmacology	783	766	736	686	734	737	864	869
Physiology	586	598	552	494	492	484	473	465
Zoology	657	657	622	585	542	545	502	526
Other	1,102	1,108	1,046	1,072	1,102	1,214	1,323	1,469
Computer sciences	3,269	3,083	3,040	3,143	3,198	3,534	3,649	3,758
Earth, atmospheric, and ocean sciences	3,920	4,045	4,053	4,039	4,065	4,134	4,198	4,213
Atmospheric	125	120	118	117	108	111	126	156
Earth	1,629	1,718	1,772	1,771	1,753	1,810	1,868	1,853
Ocean	791	818	772	765	829	885	921	897
Other	1,375	1,389	1,391	1,386	1,375	1,328	1,283	1,307
Mathematics/statistics	3,668	3,426	3,290	3,035	3,040	2,861	2,608	2,798
Mathematics/applied mathematics	3,104	2,848	2,704	2,558	2,586	2,431	2,184	2,357
Statistics	564	578	586	477	454	430	424	441
Physical sciences	4,684	4,482	4,371	4,180	4,170	4,165	4,165	4,158
Astronomy	144	142	146	137	145	146	163	154
Chemistry	3,483	3,347	3,338	3,220	3,176	3,182	3,169	3,167
Physics	906	833	771	717	759	739	743	753
Other	151	160	116	106	90	98	90	84

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	29,350	28,163	27,753	27,408	26,707	26,128	24,537	24,557
Clinical	9,360	8,912	8,483	8,705	8,511	8,065	7,432	7,401
General	7,054	6,896	6,941	6,924	6,617	6,577	6,320	6,144
Nonclinical	12,936	12,355	12,329	11,779	11,579	11,486	10,785	11,012
Social sciences	27,048	26,619	26,490	25,756	24,784	24,980	23,959	24,265
Agricultural economics	380	378	355	315	295	309	331	331
Anthropology (cultural and social)	3,542	3,482	3,569	3,364	3,359	3,310	3,266	3,148
Economics	1,809	1,713	1,575	1,351	1,227	1,150	1,225	1,195
Geography	1,216	1,198	1,192	1,230	1,239	1,242	1,165	1,255
History and philosophy of science	116	112	119	120	149	163	158	182
Linguistics	1,127	1,058	1,071	995	934	901	801	830
Political science and public administration	10,381	10,007	9,442	9,244	8,645	8,765	8,565	8,749
Sociology	3,767	3,794	3,778	3,701	3,509	3,506	3,319	3,376
Other	4,710	4,877	5,389	5,436	5,427	5,634	5,129	5,199
Engineering	9,226	8,874	8,620	8,271	8,166	7,864	7,674	7,561
Aerospace	212	210	198	183	175	198	218	210
Agricultural	79	79	86	82	103	113	118	117
Biomedical	386	410	410	472	483	520	542	550
Chemical	725	705	705	742	704	643	672	610
Civil	2,530	2,401	2,408	2,312	2,206	2,098	2,124	2,097
Electrical	1,497	1,431	1,308	1,152	1,211	1,083	964	994
Engineering science/physics	167	166	154	142	150	137	134	138
Industrial/manufacturing	1,666	1,636	1,544	1,438	1,272	1,315	1,227	1,162
Mechanical	954	818	766	762	791	749	705	723
Metallurgical/materials	577	573	547	500	506	443	426	449
Mining	30	24	30	43	37	33	29	29
Nuclear	80	76	84	71	71	66	69	64
Petroleum	19	18	10	9	9	13	15	10
Other	304	327	370	363	448	453	431	408
Asian/Pacific Islander								
S&E	9,319	9,530	9,982	10,330	10,829	11,527	10,899	11,662
Sciences	7,500	7,749	8,200	8,548	8,995	9,518	9,008	9,498
Agricultural sciences	110	129	140	138	150	167	138	146
Biological sciences	1,928	2,134	2,210	2,320	2,354	2,371	2,247	2,536
Anatomy	51	46	50	52	32	33	29	32
Biochemistry	236	277	283	260	244	235	190	211
Biology	447	435	449	471	454	438	389	424
Biometry/epidemiology	131	151	197	200	246	262	285	294
Biophysics	31	33	27	21	18	29	29	35
Botany	42	33	38	37	53	48	51	57
Cell/molecular biology	132	143	161	174	229	260	252	270
Ecology	18	15	19	26	29	27	26	29
Entomology/parasitology	20	19	16	17	17	10	15	19
Genetics	50	56	61	66	65	82	56	73
Microbiology, immunology, and virology	166	197	209	253	234	216	217	244
Nutrition	182	217	225	226	212	199	173	201
Pathology	64	67	63	86	82	86	71	96
Pharmacology	133	146	138	129	149	142	150	180
Physiology	75	118	115	121	97	106	100	133
Zoology	24	25	27	21	30	28	15	16
Other	126	156	132	160	163	170	199	222
Computer sciences	1,357	1,337	1,432	1,648	1,920	2,322	2,100	2,092
Earth, atmospheric, and ocean sciences	155	159	160	164	186	192	172	173
Atmospheric	20	19	16	20	17	8	16	14
Earth	49	48	49	48	57	66	60	55

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Ocean	33	32	32	25	26	36	35	30
Other	53	60	63	71	86	82	61	74
Mathematics/statistics	473	452	522	429	470	437	419	439
Mathematics/applied mathematics	393	355	397	321	369	328	309	345
Statistics	80	97	125	108	101	109	110	94
Physical sciences	670	621	648	594	610	636	602	591
Astronomy	14	8	15	17	15	13	14	15
Chemistry	497	483	513	478	485	495	499	475
Physics	149	123	108	86	96	117	79	94
Other	10	7	12	13	14	11	10	7
Psychology	1,148	1,182	1,292	1,399	1,468	1,507	1,543	1,626
Clinical	355	358	378	432	426	453	453	466
General	385	392	424	455	514	503	529	549
Nonclinical	408	432	490	512	528	551	561	611
Social sciences	1,659	1,735	1,796	1,856	1,837	1,886	1,787	1,895
Agricultural economics	19	27	25	22	25	18	13	15
Anthropology (cultural and social)	117	130	155	162	167	183	192	186
Economics	230	214	204	202	225	240	220	205
Geography	49	66	71	61	45	54	46	55
History and philosophy of science	5	7	8	6	9	9	9	10
Linguistics	125	120	126	150	133	114	78	106
Political science and public administration	546	624	614	653	632	634	681	700
Sociology	265	244	268	258	262	254	236	240
Other	303	303	325	342	339	380	312	378
Engineering	1,819	1,781	1,782	1,782	1,834	2,009	1,891	2,164
Aerospace	23	15	19	16	21	21	26	34
Agricultural	8	12	12	15	13	15	19	21
Biomedical	72	73	83	85	86	105	125	160
Chemical	140	121	137	151	148	176	171	173
Civil	342	365	351	290	313	316	246	282
Electrical	679	650	671	691	705	704	729	783
Engineering science/physics	33	39	32	45	44	43	19	25
Industrial/manufacturing	179	165	176	176	156	198	170	195
Mechanical	177	181	163	143	138	179	146	180
Metallurgical/materials	83	74	59	77	75	85	73	78
Mining	4	2	3	10	13	10	1	1
Nuclear	11	11	7	12	8	6	5	8
Petroleum	1	4	5	2	4	1	1	4
Other	67	69	64	69	110	150	160	220
Black								
S&E	9,564	10,075	10,819	11,012	11,329	11,743	12,615	13,291
Sciences	8,747	9,175	9,875	10,096	10,450	10,767	11,581	12,308
Agricultural sciences	121	146	139	126	164	142	148	192
Biological sciences	1,041	1,192	1,287	1,386	1,388	1,463	1,490	1,564
Anatomy	29	24	22	21	20	21	22	17
Biochemistry	56	60	65	63	76	76	81	76
Biology	329	386	459	483	481	482	502	507
Biometry/epidemiology	71	96	94	104	122	131	117	125
Biophysics	5	6	6	7	8	8	7	7
Botany	24	24	42	56	30	23	14	21
Cell/molecular biology	36	40	47	59	63	63	74	77
Ecology	6	8	7	5	8	11	11	13
Entomology/parasitology	6	8	10	8	6	8	8	6
Genetics	33	26	20	24	29	30	30	31
Microbiology, immunology, and virology	82	100	109	122	111	124	124	121
Nutrition	118	156	141	158	169	176	172	185



TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Pathology	28	21	23	30	30	35	31	32
Pharmacology	63	64	67	73	85	96	91	108
Physiology	58	68	65	71	58	51	61	56
Zoology	14	15	12	9	11	11	8	5
Other	83	90	98	93	81	117	137	177
Computer sciences	486	503	560	535	591	677	678	773
Earth, atmospheric, and ocean sciences	85	99	104	98	99	101	100	102
Atmospheric	2	6	7	4	3	4	9	7
Earth	25	27	29	20	24	31	24	25
Ocean	15	16	14	15	15	14	14	15
Other	43	50	54	59	57	52	53	55
Mathematics/statistics	330	304	343	310	274	270	275	271
Mathematics/applied mathematics	302	273	306	286	254	248	241	242
Statistics	28	31	37	24	20	22	34	29
Physical sciences	359	368	436	444	432	402	423	413
Astronomy	4	5	7	5	3	3	4	4
Chemistry	298	298	343	348	332	318	340	341
Physics	51	61	78	71	83	70	67	53
Other	6	4	8	20	14	11	12	15
Psychology	2,678	2,542	2,644	2,736	2,926	2,872	3,382	3,674
Clinical	1,028	1,098	1,101	1,124	1,137	1,052	1,146	1,330
General	1,163	980	1,038	1,038	1,229	1,275	1,643	1,741
Nonclinical	487	464	505	574	560	545	593	603
Social sciences	3,647	4,021	4,362	4,461	4,576	4,840	5,085	5,319
Agricultural economics	35	33	28	36	25	35	38	35
Anthropology (cultural and social)	142	145	167	175	184	209	198	216
Economics	121	149	159	127	126	133	155	151
Geography	49	37	35	36	43	44	44	53
History and philosophy of science	3	1	3	2	4	7	6	9
Linguistics	47	38	31	30	32	36	31	32
Political science and public administration	1,832	2,076	2,187	2,254	2,339	2,530	2,634	2,788
Sociology	586	601	658	669	727	688	662	685
Other	832	941	1,094	1,132	1,096	1,158	1,317	1,350
Engineering	817	900	944	916	879	976	1,034	983
Aerospace	7	9	8	7	7	8	8	4
Agricultural	5	6	6	7	10	6	10	16
Biomedical	32	42	46	49	44	50	59	62
Chemical	79	90	97	87	80	79	78	89
Civil	136	158	161	144	133	173	177	158
Electrical	191	187	167	193	193	200	202	191
Engineering science/physics	10	9	12	8	7	7	13	10
Industrial/manufacturing	205	228	241	219	208	232	256	242
Mechanical	74	84	90	104	104	88	103	81
Metallurgical/materials	34	35	47	44	31	43	43	46
Mining	1	0	0	0	0	0	1	0
Nuclear	3	6	9	9	4	8	11	6
Petroleum	3	2	1	3	0	0	0	1
Other	37	44	59	42	58	82	73	77
Hispanic								
S&E	6,079	6,712	6,924	7,289	7,645	8,329	8,939	9,454
Sciences	5,499	6,100	6,255	6,650	6,958	7,627	8,200	8,613
Agricultural sciences	124	134	168	162	177	208	210	211
Biological sciences	881	974	1,001	1,091	1,132	1,219	1,226	1,331
Anatomy	12	15	17	7	4	11	12	8
Biochemistry	48	59	54	77	69	70	70	84
Biology	292	306	321	369	376	358	379	387

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biometry/epidemiology	69	71	79	97	111	114	111	103
Biophysics	4	4	3	4	1	2	2	3
Botany	23	22	21	19	29	27	20	21
Cell/molecular biology	56	54	53	54	60	77	87	97
Ecology	19	20	25	20	20	26	33	40
Entomology/parasitology	12	11	15	16	8	11	13	18
Genetics	16	18	17	25	27	34	33	43
Microbiology, immunology, and virology	92	102	94	101	103	107	107	120
Nutrition	118	119	136	125	145	155	127	134
Pathology	13	15	21	25	23	28	29	36
Pharmacology	41	42	43	43	45	52	62	62
Physiology	18	36	33	32	27	40	26	26
Zoology	17	20	18	13	18	10	12	13
Other	31	60	51	64	66	97	103	136
Computer sciences	160	162	177	210	195	213	249	245
Earth, atmospheric, and ocean sciences	127	142	144	163	168	200	169	201
Atmospheric	3	2	2	3	2	3	4	7
Earth	54	53	44	59	54	70	56	78
Ocean	38	45	47	57	60	70	59	65
Other	32	42	51	44	52	57	50	51
Mathematics/statistics	128	152	159	173	178	177	150	169
Mathematics/applied mathematics	110	136	139	152	153	158	136	156
Statistics	18	16	20	21	25	19	14	13
Physical sciences	231	262	287	283	307	346	337	357
Astronomy	2	2	3	2	2	3	3	5
Chemistry	188	222	235	235	247	289	287	292
Physics	38	33	44	40	43	41	40	58
Other	3	5	5	6	15	13	7	2
Psychology	1,780	2,037	2,130	2,215	2,347	2,617	3,113	3,273
Clinical	483	618	634	680	858	922	1,080	1,155
General	564	569	623	632	635	653	706	736
Nonclinical	733	850	873	903	854	1,042	1,327	1,382
Social sciences	2,068	2,237	2,189	2,353	2,454	2,647	2,746	2,826
Agricultural economics	20	21	21	21	21	17	16	18
Anthropology (cultural and social)	175	202	194	195	195	198	219	224
Economics	99	102	100	92	98	88	78	102
Geography	46	38	30	31	34	47	41	47
History and philosophy of science	1	1	2	2	4	8	6	6
Linguistics	120	108	92	106	117	100	103	93
Political science and public administration	908	1,017	967	1,040	1,087	1,187	1,294	1,258
Sociology	294	320	322	368	359	379	373	364
Other	405	428	461	498	539	623	616	714
Engineering	580	612	669	639	687	702	739	841
Aerospace	8	11	9	8	9	10	13	17
Agricultural	3	2	2	5	5	4	11	16
Biomedical	16	12	18	17	27	36	29	32
Chemical	51	69	70	37	65	54	69	72
Civil	155	171	204	206	219	203	238	237
Electrical	125	113	121	121	120	138	99	142
Engineering science/physics	7	7	6	9	12	15	10	11
Industrial/manufacturing	103	106	118	115	117	135	140	167
Mechanical	55	55	60	62	57	52	49	66
Metallurgical/materials	39	37	31	34	30	26	24	26
Mining	0	1	2	1	0	0	1	2

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	4	4	2	6	4	5	8	9
Petroleum	0	2	0	2	1	2	16	17
Other	14	22	26	16	21	22	32	27
American Indian/Alaskan Native								
S&E	689	763	770	795	810	811	870	879
Sciences	627	714	727	736	747	744	800	814
Agricultural sciences	17	30	26	28	25	22	22	22
Biological sciences	106	118	107	106	104	106	109	110
Anatomy	1	0	3	2	2	2	1	1
Biochemistry	7	6	4	8	4	4	3	6
Biology	33	40	36	30	27	32	36	25
Biometry/epidemiology	7	10	8	7	5	4	9	9
Biophysics	1	2	0	1	1	1	1	1
Botany	5	3	3	3	2	4	3	5
Cell/molecular biology	5	7	5	7	7	8	10	9
Ecology	5	6	3	6	3	2	3	5
Entomology/parasitology	0	1	1	0	2	1	1	1
Genetics	0	0	1	5	3	3	5	6
Microbiology, immunology, and virology	10	5	6	4	9	4	5	3
Nutrition	9	15	14	11	13	13	12	15
Pathology	1	1	4	3	3	1	1	2
Pharmacology	9	8	3	2	4	10	4	3
Physiology	6	3	3	4	5	5	2	4
Zoology	2	5	6	2	3	3	4	3
Other	5	6	7	11	11	9	9	12
Computer sciences	8	15	14	17	24	24	30	29
Earth, atmospheric, and ocean sciences	2	1	1	1	0	0	0	1
Atmospheric	15	15	14	17	18	13	10	15
Earth	2	2	5	8	7	5	4	6
Ocean	4	3	9	9	15	13	14	11
Other	20	42	31	31	42	42	40	45
Mathematics/statistics	12	27	17	14	18	18	10	16
Mathematics/applied mathematics	8	23	15	13	15	15	6	14
Statistics	4	4	2	1	3	3	4	2
Physical sciences	1	1	1	1	1	1	0	0
Astronomy	13	13	14	20	18	23	18	23
Chemistry	3	5	3	3	4	5	3	4
Physics	1	0	0	0	0	0	0	0
Other	23	21	29	35	40	31	28	33
Psychology	220	237	248	223	224	215	259	253
Clinical	61	70	79	72	84	63	72	69
General	76	84	86	74	68	70	87	80
Nonclinical	83	83	83	77	72	82	100	104
Social sciences	223	247	268	289	289	299	321	324
Agricultural economics	2	2	2	3	3	1	1	0
Anthropology (cultural and social)	55	63	62	59	70	60	59	56
Economics	6	12	7	8	5	9	13	9
Geography	7	9	5	5	5	5	7	10
History and philosophy of science	1	1	0	0	0	1	2	2
Linguistics	4	5	2	4	7	10	8	9
Political science and public administration	76	72	80	86	84	91	90	98
Sociology	36	36	43	50	45	40	48	41
Other	36	47	67	74	70	82	93	99
Engineering	62	49	43	59	63	67	70	65
Aerospace	2	2	0	0	0	0	2	2
Agricultural	0	1	0	2	2	0	2	2

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	4	4	2	6	4	5	8	9
Biomedical	5	1	1	1	2	1	1	1
Chemical	6	8	8	8	8	5	11	8
Civil	17	10	10	17	12	13	10	14
Electrical	7	5	5	7	8	11	11	6
Engineering science/physics	1	1	0	1	1	1	2	2
Industrial/manufacturing	7	7	4	6	11	16	14	13
Mechanical	10	7	7	8	5	8	9	9
Metallurgical/materials	1	1	1	2	6	5	2	2
Mining	2	1	1	1	1	1	1	0
Nuclear	0	0	0	1	0	0	0	0
Petroleum	4	5	6	5	7	6	5	6
Other	18	19	18	24	23	29	21	27
Other race/ethnicity								
S&E	5,493	7,120	7,353	7,793	7,840	8,126	8,945	9,272
Sciences	4,791	6,359	6,576	6,929	7,088	7,363	8,121	8,372
Agricultural sciences	108	142	101	158	133	110	179	209
Biological sciences	717	853	851	1,044	1,092	1,218	1,227	1,318
Anatomy	14	9	8	11	15	9	9	5
Biochemistry	30	45	37	85	59	61	41	73
Biology	284	358	315	368	368	397	336	355
Biometry/epidemiology	36	42	60	73	140	100	96	108
Biophysics	2	1	13	12	25	13	15	6
Botany	18	23	25	25	33	24	31	36
Cell/molecular biology	20	35	30	52	65	98	140	152
Ecology	25	27	23	28	25	32	49	45
Entomology/parasitology	7	7	7	13	10	9	10	10
Genetics	8	15	17	21	18	63	73	58
Microbiology, immunology, and virology	54	45	46	68	68	130	118	110
Nutrition	81	89	102	73	68	78	101	128
Pathology	26	11	19	32	32	38	39	41
Pharmacology	23	33	25	27	26	27	25	34
Physiology	22	20	29	43	23	24	25	14
Zoology	19	16	8	17	30	21	25	23
Other	48	77	87	96	87	94	94	120
Computer sciences	388	437	513	645	649	667	822	845
Earth, atmospheric, and ocean sciences	132	171	185	198	247	210	188	194
Atmospheric	5	3	7	20	16	11	11	10
Earth	70	89	93	91	115	79	80	74
Ocean	23	25	33	21	43	28	32	36
Other	34	54	52	66	73	92	65	74
Mathematics/statistics	231	241	226	208	225	219	208	248
Mathematics/applied mathematics	184	214	198	183	186	187	167	195
Statistics	47	27	28	25	39	32	41	53
Physical sciences	236	298	244	312	291	284	320	364
Astronomy	9	12	6	7	15	6	13	13
Chemistry	174	219	168	236	183	170	197	202
Physics	50	65	66	64	77	75	70	117
Other	3	2	4	5	16	33	40	32
Psychology	1,560	2,373	2,415	2,380	2,402	2,582	2,689	2,463
Clinical	316	329	347	402	378	445	459	621
General	533	553	541	505	593	606	691	739
Nonclinical	711	1,491	1,527	1,473	1,431	1,531	1,539	1,103
Social sciences	1,419	1,844	2,041	1,984	2,049	2,073	2,488	2,731
Agricultural economics	17	19	10	17	21	13	14	24
Anthropology (cultural and social)	169	188	177	172	194	236	293	311

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Economics	80	94	90	87	127	99	146	170
Geography	59	60	64	65	88	74	85	76
History and philosophy of science	0	4	5	11	4	6	8	10
Linguistics	56	94	81	103	74	72	109	91
Political science and public administration	651	857	987	768	750	727	884	1,015
Sociology	146	201	168	193	196	207	247	217
Other	241	327	459	568	595	639	702	817
Engineering	702	761	777	864	752	763	824	900
Aerospace	9	9	12	13	12	18	15	15
Agricultural	5	1	2	17	8	12	13	10
Biomedical	11	24	11	22	34	32	22	66
Chemical	53	52	47	51	54	63	66	46
Civil	130	160	183	146	163	152	128	155
Electrical	187	184	192	276	224	203	276	286
Engineering science/physics	4	6	12	4	6	12	17	23
Industrial/manufacturing	138	164	136	125	105	107	116	112
Mechanical	99	79	58	87	58	65	73	66
Metallurgical/materials	32	22	18	44	29	16	13	21
Mining	0	0	6	1	1	0	0	0
Nuclear	3	2	2	1	0	1	1	1
Petroleum	0	1	0	1	1	1	8	8
Other	31	57	98	76	57	81	76	91
Temporary resident								
S&E	25,879	26,162	27,114	28,277	30,037	32,950	36,561	40,408
Sciences	21,035	21,126	21,695	22,088	23,430	25,444	27,981	30,695
Agricultural sciences	840	860	842	814	823	826	823	944
Biological sciences	5,554	5,462	5,278	5,144	5,473	5,458	5,848	6,347
Anatomy	105	107	86	80	72	84	86	89
Biochemistry	754	744	673	595	633	662	717	756
Biology	898	930	942	975	1,021	977	1,015	1,107
Biometry/epidemiology	287	292	279	256	337	365	426	494
Biophysics	53	58	52	45	45	43	55	75
Botany	313	312	272	286	301	283	287	286
Cell/molecular biology	386	374	398	394	412	456	540	587
Ecology	73	61	66	62	72	74	85	84
Entomology/parasitology	106	105	98	85	80	84	85	85
Genetics	161	137	153	179	195	170	180	198
Microbiology, immunology, and virology	571	523	487	453	464	482	473	544
Nutrition	729	735	709	696	706	686	728	764
Pathology	138	140	135	125	133	126	132	136
Pharmacology	300	252	279	269	282	279	319	350
Physiology	221	215	184	169	184	188	190	213
Zoology	111	93	94	75	78	68	94	99
Other	348	384	371	400	458	431	436	480
Computer sciences	2,419	2,596	3,061	3,683	4,225	5,133	6,635	7,552
Earth, atmospheric, and ocean sciences	877	797	772	719	763	857	896	976
Atmospheric	85	86	83	98	88	105	102	103
Earth	381	333	319	290	294	331	355	383
Ocean	213	169	167	164	182	184	202	206
Other	198	209	203	167	199	237	237	284
Mathematics/statistics	1,689	1,656	1,662	1,699	1,783	2,061	2,111	2,336
Mathematics/applied mathematics	1,301	1,220	1,227	1,270	1,332	1,495	1,466	1,519
Statistics	388	436	435	429	451	566	645	817
Physical sciences	2,969	3,035	3,041	3,011	2,920	3,053	3,260	3,422
Astronomy	49	53	49	39	49	53	70	74
Chemistry	2,192	2,246	2,228	2,185	2,123	2,140	2,263	2,348

TABLE D-2. Female S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Physics	711	715	739	763	718	829	904	966
Other	17	21	25	24	30	31	23	34
Psychology	1,402	1,230	1,265	1,258	1,388	1,449	1,507	1,737
Clinical	242	197	203	228	250	280	306	331
General	423	387	388	379	386	435	496	603
Nonclinical	737	646	674	651	752	734	705	803
Social sciences	5,285	5,490	5,774	5,760	6,055	6,607	6,901	7,381
Agricultural economics	275	303	269	274	290	322	376	412
Anthropology (cultural and social)	393	343	362	374	387	448	461	421
Economics	1,448	1,592	1,648	1,645	1,656	1,780	1,936	2,150
Geography	172	177	164	197	209	237	243	290
History and philosophy of science	14	13	15	21	23	18	30	25
Linguistics	587	577	620	629	656	600	614	632
Political science and public administration	1,190	1,297	1,355	1,359	1,424	1,641	1,796	1,910
Sociology	646	587	548	583	598	665	719	786
Other	560	601	793	678	812	896	726	755
Engineering	4,844	5,036	5,419	6,189	6,607	7,506	8,580	9,713
Aerospace	97	95	106	144	158	168	187	203
Agricultural	100	101	102	90	102	101	95	102
Biomedical	175	164	164	180	194	260	292	370
Chemical	475	522	587	644	668	713	814	831
Civil	901	967	983	1,049	1,056	1,202	1,363	1,536
Electrical	1,416	1,518	1,658	1,998	2,286	2,634	3,070	3,628
Engineering science/physics	84	69	79	69	111	104	147	154
Industrial/manufacturing	559	517	550	577	583	656	811	917
Mechanical	454	453	492	613	609	647	768	814
Metallurgical/materials	317	332	374	416	453	466	460	551
Mining	15	15	13	8	4	12	14	4
Nuclear	50	45	48	43	46	57	61	69
Petroleum	36	44	44	59	40	65	47	52
Other	165	194	219	299	297	421	451	482

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
S&E	272,021	262,248	253,499	245,608	241,406	242,832	243,882	251,848
Sciences	177,047	173,060	168,529	163,180	160,356	161,028	160,010	164,569
Agricultural sciences	7,927	7,963	7,525	7,291	7,125	7,078	6,753	6,709
Biological sciences	29,896	29,829	29,289	28,427	27,915	27,442	26,576	26,730
Anatomy	525	517	552	543	509	470	488	448
Biochemistry	3,238	3,148	2,987	2,926	2,919	2,835	2,739	2,694
Biology	7,460	7,377	7,482	7,359	7,064	6,846	6,401	6,185
Biometry/epidemiology	1,124	1,139	1,227	1,119	1,352	1,287	1,279	1,271
Biophysics	576	604	589	532	528	497	516	628
Botany	1,584	1,465	1,394	1,283	1,210	1,168	1,077	1,098
Cell/molecular biology	2,067	2,146	2,128	2,152	2,154	2,192	2,245	2,322
Ecology	821	906	847	838	832	817	838	888
Entomology/parasitology	846	827	810	751	754	739	662	690
Genetics	787	818	828	801	735	760	737	792
Microbiology, immunology, and virology	2,604	2,569	2,480	2,409	2,402	2,365	2,381	2,303
Nutrition	1,273	1,296	1,238	1,144	1,073	1,077	1,034	993
Pathology	925	890	847	842	776	776	701	748
Pharmacology	1,487	1,399	1,372	1,368	1,405	1,414	1,444	1,446
Physiology	1,392	1,482	1,396	1,364	1,265	1,185	1,130	1,056
Zoology	1,184	1,175	1,065	947	910	872	821	763
Other	2,003	2,071	2,047	2,049	2,027	2,142	2,083	2,405
Computer sciences	26,071	25,325	25,829	26,110	27,225	29,990	33,431	36,902
Earth, atmospheric, and ocean sciences	10,638	10,282	9,736	9,132	8,690	8,358	8,189	7,949
Atmospheric	867	835	852	829	731	671	695	626
Earth	5,490	5,299	4,984	4,663	4,372	4,237	4,142	4,061
Ocean	1,755	1,616	1,545	1,424	1,400	1,402	1,401	1,330
Other	2,526	2,532	2,355	2,216	2,187	2,048	1,951	1,932
Mathematics/statistics	13,042	12,246	11,789	10,851	10,497	10,214	9,865	10,386
Mathematics/applied mathematics	11,055	10,317	9,962	9,244	8,932	8,659	8,310	8,766
Statistics	1,987	1,929	1,827	1,607	1,565	1,555	1,555	1,620
Physical sciences	25,299	24,314	23,288	22,257	21,822	21,776	21,335	21,656
Astronomy	750	689	647	570	590	607	621	651
Chemistry	12,958	12,742	12,495	12,052	11,918	11,799	11,415	11,452
Physics	11,254	10,590	9,919	9,403	9,029	8,993	8,930	9,219
Other	337	293	227	232	285	377	369	334
Psychology	16,416	15,877	15,375	15,507	15,095	14,494	13,674	13,215
Clinical	3,686	3,587	3,700	3,786	3,560	3,513	3,205	3,084
General	6,743	6,649	6,489	6,349	6,284	6,130	5,831	5,547
Nonclinical	5,987	5,641	5,186	5,372	5,251	4,851	4,638	4,584
Social sciences	47,758	47,224	45,698	43,605	41,987	41,676	40,187	41,022
Agricultural economics	1,541	1,555	1,407	1,355	1,315	1,299	1,290	1,326
Anthropology (cultural and social)	3,072	3,140	3,087	3,059	3,021	2,989	2,945	2,929
Economics	9,120	8,797	8,297	7,585	7,237	7,063	7,005	7,358
Geography	2,904	2,786	2,770	2,662	2,663	2,547	2,413	2,490
History and philosophy of science	247	262	257	281	315	345	313	327
Linguistics	1,213	1,194	1,133	1,051	982	966	930	951
Political science and public administration	18,733	18,348	17,620	16,679	15,867	15,806	15,235	15,332
Sociology	3,758	3,781	3,640	3,591	3,362	3,227	3,085	3,066
Other	7,170	7,361	7,487	7,342	7,225	7,434	6,971	7,243
Engineering	94,974	89,188	84,970	82,428	81,050	81,804	83,872	87,279
Aerospace	3,357	2,992	2,856	2,712	2,755	2,926	2,938	3,000
Agricultural	861	835	802	723	682	683	631	623
Biomedical	2,053	2,006	1,999	2,021	2,035	2,117	2,171	2,352
Chemical	6,110	5,885	5,757	5,568	5,366	5,150	5,212	5,084
Civil	15,714	14,986	14,228	13,029	12,415	12,069	12,208	12,125
Electrical	28,918	26,633	25,580	26,110	26,382	26,409	27,967	29,715

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	1,783	1,658	1,456	1,369	1,370	1,308	1,290	1,435
Industrial/manufacturing	11,135	10,652	9,906	9,301	8,769	9,144	9,519	10,132
Mechanical	15,938	14,686	13,873	13,266	12,934	13,168	13,604	13,892
Metallurgical/materials	4,145	3,882	3,670	3,571	3,550	3,397	3,336	3,548
Mining	374	331	317	285	249	273	241	204
Nuclear	1,093	1,009	827	725	687	686	636	644
Petroleum	565	539	502	484	516	560	540	588
Other	2,928	3,094	3,197	3,264	3,340	3,914	3,579	3,937
U.S. citizen/permanent resident								
S&E	195,784	189,907	182,508	174,924	169,471	165,892	158,605	158,958
Sciences	132,972	131,167	127,175	122,813	119,603	118,085	112,909	113,876
Agricultural sciences	5,646	5,744	5,437	5,399	5,365	5,430	5,216	5,150
Biological sciences	22,661	23,101	23,107	22,425	21,985	21,682	20,660	20,692
Anatomy	401	380	426	412	391	360	364	328
Biochemistry	2,173	2,190	2,135	2,110	2,099	2,042	1,861	1,871
Biology	6,375	6,330	6,454	6,297	6,005	5,831	5,391	5,146
Biometry/epidemiology	810	853	943	864	1,012	942	919	914
Biophysics	418	454	466	406	407	386	367	442
Botany	1,075	995	959	877	838	804	737	772
Cell/molecular biology	1,565	1,674	1,683	1,700	1,704	1,791	1,803	1,832
Ecology	720	805	751	731	733	717	739	780
Entomology/parasitology	588	559	590	546	543	521	467	500
Genetics	586	602	594	562	536	551	541	574
Microbiology, immunology, and virology	1,871	1,907	1,904	1,883	1,906	1,904	1,915	1,843
Nutrition	750	777	786	731	708	699	651	597
Pathology	700	688	652	673	621	607	530	591
Pharmacology	1,134	1,104	1,078	1,084	1,111	1,124	1,139	1,148
Physiology	1,020	1,169	1,132	1,110	1,011	919	874	838
Zoology	994	1,023	935	831	798	781	721	638
Other	1,481	1,591	1,619	1,608	1,562	1,703	1,641	1,878
Computer sciences	17,428	17,126	17,043	16,876	17,028	17,968	17,926	18,705
Earth, atmospheric, and ocean sciences	8,251	8,132	7,742	7,336	6,954	6,695	6,393	6,164
Atmospheric	687	655	652	636	564	502	493	455
Earth	4,122	4,089	3,846	3,660	3,422	3,344	3,195	3,099
Ocean	1,246	1,164	1,155	1,081	1,049	1,070	1,077	1,022
Other	2,196	2,224	2,089	1,959	1,919	1,779	1,628	1,588
Mathematics/statistics	8,668	8,093	7,690	7,006	6,859	6,348	5,942	6,252
Mathematics/applied mathematics	7,400	6,845	6,493	6,008	5,884	5,494	5,122	5,438
Statistics	1,268	1,248	1,197	998	975	854	820	814
Physical sciences	16,559	15,940	15,151	14,373	14,004	13,697	13,032	13,085
Astronomy	537	510	480	424	426	421	420	442
Chemistry	8,738	8,574	8,448	8,125	8,016	7,854	7,522	7,414
Physics	7,018	6,625	6,028	5,627	5,317	5,093	4,776	4,955
Other	266	231	195	197	245	329	314	274
Psychology	15,475	15,020	14,667	14,757	14,297	13,704	12,921	12,439
Clinical	3,549	3,455	3,599	3,679	3,447	3,397	3,121	2,990
General	6,310	6,267	6,157	5,994	5,908	5,741	5,474	5,190
Nonclinical	5,616	5,298	4,911	5,084	4,942	4,566	4,326	4,259
Social sciences	38,284	38,011	36,338	34,641	33,111	32,561	30,819	31,389
Agricultural economics	876	859	776	709	701	696	652	686
Anthropology (cultural and social)	2,678	2,789	2,759	2,731	2,669	2,614	2,583	2,581
Economics	5,291	5,001	4,424	3,847	3,653	3,310	3,161	3,261
Geography	2,576	2,465	2,452	2,335	2,313	2,186	2,032	2,058
History and philosophy of science	205	229	222	235	271	304	274	282
Linguistics	788	774	751	698	615	604	584	621



TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	16,510	16,267	15,432	14,612	13,739	13,528	12,879	12,990
Sociology	3,069	3,160	3,057	3,013	2,851	2,716	2,558	2,546
Other	6,291	6,467	6,465	6,461	6,299	6,603	6,096	6,364
Engineering	62,812	58,740	55,333	52,111	49,868	47,807	45,696	45,082
Aerospace	2,215	1,901	1,689	1,538	1,496	1,562	1,612	1,599
Agricultural	467	453	432	393	378	376	340	315
Biomedical	1,406	1,433	1,458	1,491	1,501	1,510	1,503	1,588
Chemical	3,558	3,438	3,457	3,348	3,149	2,849	2,731	2,502
Civil	10,657	10,294	9,946	8,975	8,509	7,846	7,457	7,118
Electrical	18,926	16,934	15,868	15,463	14,867	13,943	13,239	13,370
Engineering science/physics	1,244	1,208	1,042	990	929	878	760	845
Industrial/manufacturing	8,106	7,817	7,130	6,537	6,000	6,070	5,892	5,726
Mechanical	10,571	9,681	8,882	8,185	7,893	7,619	7,466	7,165
Metallurgical/materials	2,488	2,287	2,124	2,020	1,993	1,820	1,684	1,763
Mining	197	175	196	168	177	176	123	104
Nuclear	731	674	565	465	439	411	362	357
Petroleum	217	213	185	131	108	131	225	227
Other	2,029	2,232	2,359	2,407	2,429	2,616	2,302	2,403
White								
S&E	153,563	146,003	139,314	131,482	125,718	121,846	114,191	113,079
Sciences	106,801	102,946	98,845	93,660	89,786	87,647	82,552	82,320
Agricultural sciences	5,026	5,022	4,767	4,662	4,645	4,741	4,506	4,416
Biological sciences	18,414	18,345	18,247	17,434	16,971	16,579	15,655	15,421
Anatomy	304	294	336	311	295	273	272	255
Biochemistry	1,717	1,673	1,612	1,581	1,598	1,507	1,408	1,356
Biology	5,133	4,921	5,076	4,872	4,636	4,470	4,102	3,916
Biometry/epidemiology	644	635	683	597	704	651	630	623
Biophysics	331	338	338	289	266	266	252	292
Botany	921	875	821	743	711	685	622	630
Cell/molecular biology	1,292	1,327	1,352	1,347	1,310	1,363	1,315	1,304
Ecology	656	712	660	625	645	648	645	684
Entomology/parasitology	517	508	514	478	487	474	423	423
Genetics	495	493	476	453	422	391	382	409
Microbiology, immunology, and virology	1,522	1,524	1,487	1,450	1,467	1,404	1,409	1,305
Nutrition	578	620	605	579	547	543	494	436
Pathology	537	546	516	513	460	436	380	410
Pharmacology	904	845	863	857	834	852	866	858
Physiology	772	863	838	789	728	635	585	570
Zoology	901	928	860	756	695	712	658	574
Other	1,190	1,243	1,210	1,194	1,166	1,269	1,212	1,376
Computer sciences	12,483	11,690	11,439	10,919	10,750	10,889	10,916	11,281
Earth, atmospheric, and ocean sciences	7,362	7,200	6,820	6,363	6,033	5,873	5,613	5,370
Atmospheric	608	571	591	540	493	441	431	391
Earth	3,741	3,670	3,440	3,218	3,023	2,986	2,851	2,760
Ocean	1,089	1,007	980	934	903	930	951	872
Other	1,924	1,952	1,809	1,671	1,614	1,516	1,380	1,347
Mathematics/statistics	6,822	6,228	5,906	5,316	5,057	4,798	4,358	4,588
Mathematics/applied mathematics	5,790	5,216	4,959	4,516	4,313	4,129	3,732	3,965
Statistics	1,032	1,012	947	800	744	669	626	623
Physical sciences	13,753	13,004	12,386	11,587	11,048	10,872	10,221	10,077
Astronomy	480	435	424	377	362	365	360	373
Chemistry	7,179	6,950	6,865	6,492	6,308	6,212	5,900	5,798
Physics	5,865	5,417	4,925	4,551	4,208	4,101	3,773	3,731
Other	229	202	172	167	170	194	188	175

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	12,712	11,983	11,574	11,316	10,915	10,222	9,423	9,001
Clinical	2,960	2,839	2,957	2,924	2,736	2,635	2,342	2,202
General	5,207	4,905	4,724	4,433	4,391	4,107	3,857	3,686
Nonclinical	4,545	4,239	3,893	3,959	3,788	3,480	3,224	3,113
Social sciences	30,229	29,474	27,706	26,063	24,367	23,673	21,860	22,166
Agricultural economics	748	697	644	591	565	572	535	557
Anthropology (cultural and social)	2,285	2,333	2,298	2,277	2,190	2,130	2,056	2,042
Economics	4,089	3,903	3,360	2,850	2,601	2,445	2,243	2,273
Geography	2,263	2,155	2,129	2,036	1,972	1,889	1,756	1,776
History and philosophy of science	192	205	193	183	231	261	228	232
Linguistics	643	630	618	523	470	474	436	463
Political science and public administration	12,915	12,406	11,513	10,740	9,881	9,560	8,876	8,979
Sociology	2,259	2,276	2,187	2,139	1,946	1,798	1,689	1,693
Other	4,835	4,869	4,764	4,724	4,511	4,544	4,041	4,151
Engineering	46,762	43,057	40,469	37,822	35,932	34,199	31,639	30,759
Aerospace	1,812	1,564	1,379	1,257	1,216	1,239	1,233	1,237
Agricultural	397	375	341	303	300	310	282	258
Biomedical	1,078	1,097	1,109	1,095	1,140	1,144	1,089	1,058
Chemical	2,807	2,724	2,689	2,623	2,420	2,162	1,977	1,807
Civil	8,499	8,033	7,575	6,896	6,459	5,990	5,675	5,365
Electrical	12,796	11,175	10,425	9,913	9,468	8,744	7,958	7,823
Engineering science/physics	1,005	936	788	739	693	650	539	579
Industrial/manufacturing	6,050	5,626	5,320	4,953	4,492	4,446	4,211	4,093
Mechanical	7,939	7,241	6,695	6,217	5,866	5,742	5,358	5,174
Metallurgical/materials	2,001	1,829	1,714	1,519	1,573	1,492	1,325	1,390
Mining	153	127	134	118	114	129	104	86
Nuclear	618	596	487	404	378	358	313	300
Petroleum	156	146	131	96	92	111	95	102
Other	1,451	1,588	1,682	1,689	1,721	1,682	1,480	1,487
Asian/Pacific Islander								
S&E	17,151	16,371	15,946	15,682	15,895	16,048	15,327	15,997
Sciences	9,183	9,134	9,288	9,331	9,717	9,896	9,134	9,559
Agricultural sciences	171	151	143	164	155	139	109	112
Biological sciences	2,021	2,165	2,255	2,166	2,093	2,097	1,991	2,183
Anatomy	53	45	57	51	45	46	56	39
Biochemistry	290	318	328	306	283	306	228	266
Biology	436	398	426	411	363	355	350	338
Biometry/epidemiology	78	103	127	114	111	113	125	125
Biophysics	68	78	82	65	72	71	70	97
Botany	65	58	52	39	39	29	25	42
Cell/molecular biology	164	202	196	179	212	212	239	250
Ecology	12	17	18	21	21	18	16	18
Entomology/parasitology	27	16	24	24	20	9	9	27
Genetics	53	56	58	65	61	79	53	74
Microbiology, immunology, and virology	190	207	219	222	210	196	196	235
Nutrition	64	64	84	59	57	56	57	53
Pathology	93	95	75	85	84	94	82	90
Pharmacology	118	143	118	116	150	146	138	155
Physiology	131	203	203	212	168	170	164	155
Zoology	35	35	32	32	31	21	13	17
Other	144	127	156	165	166	176	170	202
Computer sciences	2,689	2,706	2,834	2,978	3,299	3,834	3,458	3,624
Earth, atmospheric, and ocean sciences	294	260	249	253	238	208	179	179
Atmospheric	46	50	36	36	38	33	25	23
Earth	131	103	96	118	96	78	72	84

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Ocean	41	51	48	35	36	31	29	21
Other	76	56	69	64	68	66	53	51
Mathematics/statistics	735	669	701	622	704	565	544	558
Mathematics/applied mathematics	615	549	546	499	570	471	448	480
Statistics	120	120	155	123	134	94	96	78
Physical sciences	1,253	1,159	1,097	1,044	1,150	1,046	1,018	1,021
Astronomy	21	22	23	22	17	18	19	21
Chemistry	677	639	631	628	694	638	657	629
Physics	532	488	434	381	432	373	333	361
Other	23	10	9	13	7	17	9	10
Psychology	435	416	465	510	551	536	533	539
Clinical	126	112	116	125	127	126	116	108
General	152	157	188	230	235	238	224	251
Nonclinical	157	147	161	155	189	172	193	180
Social sciences	1,585	1,608	1,544	1,594	1,527	1,471	1,302	1,343
Agricultural economics	32	39	28	27	29	35	17	14
Anthropology (cultural and social)	75	78	87	74	74	73	67	67
Economics	428	366	332	350	386	357	275	297
Geography	59	61	60	58	42	47	35	42
History and philosophy of science	4	7	10	15	13	11	11	11
Linguistics	61	59	55	62	54	34	28	48
Political science and public administration	546	603	541	611	548	529	527	515
Sociology	147	169	172	141	143	144	119	119
Other	233	226	259	256	238	241	223	230
Engineering	7,968	7,237	6,658	6,351	6,178	6,152	6,193	6,438
Aerospace	200	162	140	137	119	132	180	169
Agricultural	42	31	45	32	30	26	19	23
Biomedical	175	208	201	228	182	203	236	263
Chemical	384	337	345	361	321	310	379	403
Civil	997	957	903	760	791	615	524	507
Electrical	3,419	3,057	2,872	2,796	2,730	2,784	2,689	2,945
Engineering science/physics	141	146	121	157	143	127	84	98
Industrial/manufacturing	703	690	574	563	487	586	564	501
Mechanical	1,244	1,044	910	804	835	829	975	892
Metallurgical/materials	263	237	213	218	197	155	173	166
Mining	26	32	16	36	44	40	10	11
Nuclear	64	38	39	26	28	16	19	19
Petroleum	30	38	39	14	3	10	37	35
Other	280	260	240	219	268	319	304	406
Black								
S&E	8,046	8,210	8,247	8,329	8,320	8,587	8,362	8,482
Sciences	6,079	6,253	6,292	6,366	6,378	6,598	6,394	6,544
Agricultural sciences	119	151	131	104	149	135	118	109
Biological sciences	668	690	721	777	783	781	774	805
Anatomy	11	15	12	20	18	14	13	9
Biochemistry	57	50	51	63	67	64	63	53
Biology	238	260	274	280	260	262	244	248
Biometry/epidemiology	37	42	51	56	59	54	42	46
Biophysics	12	15	12	10	10	9	9	10
Botany	28	11	22	32	29	32	28	27
Cell/molecular biology	30	34	38	48	53	47	55	60
Ecology	6	7	10	6	9	11	13	13
Entomology/parasitology	10	4	6	6	5	9	6	9
Genetics	12	10	12	13	14	20	25	23
Microbiology, immunology, and virology	47	50	62	72	61	62	68	57
Nutrition	32	36	38	38	44	42	41	46

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Pathology	11	7	7	9	14	14	12	18
Pharmacology	31	37	38	41	51	55	55	58
Physiology	41	31	30	30	37	27	42	42
Zoology	9	9	5	4	5	5	5	5
Other	56	72	53	49	47	54	53	81
Computer sciences	696	652	716	765	764	824	855	953
Earth, atmospheric, and ocean sciences	117	116	115	105	103	112	120	125
Atmospheric	10	12	8	8	5	3	9	12
Earth	31	40	41	36	35	31	32	32
Ocean	26	18	19	11	10	14	14	16
Other	50	46	47	50	53	64	65	65
Mathematics/statistics	343	385	368	347	339	324	294	320
Mathematics/applied mathematics	309	343	333	321	307	295	265	284
Statistics	34	42	35	26	32	29	29	36
Physical sciences	191	187	202	174	159	164	168	162
Astronomy	4	10	5	9	13	16	12	6
Chemistry	324	319	327	324	308	287	295	273
Physics	55	53	57	68	44	49	51	61
Other	1	2	0	0	1	1	4	1
Psychology	851	817	808	908	887	915	883	947
Clinical	145	138	147	162	165	165	163	148
General	339	322	319	326	352	397	391	405
Nonclinical	367	357	342	420	370	353	329	394
Social sciences	2,788	2,913	2,883	2,852	2,872	3,006	2,857	2,819
Agricultural economics	42	36	34	29	45	49	42	41
Anthropology (cultural and social)	67	70	84	79	82	82	80	58
Economics	249	250	212	197	191	158	168	163
Geography	75	61	74	47	65	48	46	61
History and philosophy of science	4	7	7	6	8	7	8	7
Linguistics	12	13	12	15	14	13	13	15
Political science and public administration	1,396	1,476	1,440	1,445	1,456	1,568	1,454	1,467
Sociology	357	356	361	384	387	373	334	314
Other	586	644	659	650	624	708	712	693
Engineering	1,967	1,957	1,955	1,963	1,942	1,989	1,968	1,938
Aerospace	54	42	39	28	27	44	49	41
Agricultural	11	14	11	14	17	17	13	10
Biomedical	29	30	38	34	42	54	55	59
Chemical	78	85	94	85	105	68	91	78
Civil	288	313	330	299	277	277	273	273
Electrical	670	634	610	678	679	685	629	622
Engineering science/physics	34	28	28	31	32	28	21	23
Industrial/manufacturing	309	313	294	270	257	309	321	349
Mechanical	19	17	7	12	9	7	6	7
Metallurgical/materials	4	3	1	5	5	5	7	3
Mining	91	104	119	115	139	158	153	138
Nuclear	497	529	550	508	481	501	493	466
Petroleum	4	6	7	6	6	6	5	8
Other	298	326	336	319	303	315	308	290
Hispanic								
S&E	7,194	7,400	7,647	7,695	7,840	8,204	8,281	8,529
Sciences	4,911	5,204	5,380	5,522	5,627	5,982	6,000	6,172
Agricultural sciences	144	155	206	246	210	209	223	211
Biological sciences	766	851	850	899	924	967	962	1,007
Anatomy	13	12	10	8	11	16	14	14
Biochemistry	67	63	57	71	72	82	73	87
Biology	261	311	300	325	315	318	331	313

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biometry/epidemiology	31	45	44	40	49	47	54	45
Biophysics	6	10	11	13	13	15	11	17
Botany	33	19	34	31	27	22	20	23
Cell/molecular biology	50	59	58	59	62	75	68	83
Ecology	23	23	26	27	23	15	18	18
Entomology/parasitology	15	15	28	26	18	16	18	21
Genetics	18	21	17	17	24	24	24	24
Microbiology, immunology, and virology	58	65	70	69	84	94	89	100
Nutrition	24	25	27	30	27	31	25	28
Pathology	22	24	18	19	19	28	25	31
Pharmacology	39	32	33	42	43	40	50	51
Physiology	33	39	27	33	43	44	39	34
Zoology	26	27	21	17	18	21	16	16
Other	47	61	69	72	76	79	87	102
Computer sciences	471	502	523	513	559	659	623	656
Earth, atmospheric, and ocean sciences	212	223	230	236	202	200	186	196
Atmospheric	11	8	9	9	11	4	8	8
Earth	86	99	97	102	83	84	80	77
Ocean	50	54	59	59	48	62	54	72
Other	65	62	65	66	60	50	44	39
Mathematics/statistics	241	248	266	254	276	270	310	329
Mathematics/applied mathematics	221	233	237	234	251	241	277	302
Statistics	20	15	29	20	25	29	33	27
Physical sciences	444	469	455	499	525	549	509	539
Astronomy	14	14	10	9	10	10	14	12
Chemistry	254	263	269	288	315	329	315	337
Physics	173	186	172	197	183	188	164	181
Other	3	6	4	5	17	22	16	9
Psychology	705	762	807	860	881	958	1,041	1,050
Clinical	161	194	208	245	261	260	323	333
General	285	310	332	338	344	420	453	436
Nonclinical	259	258	267	277	276	278	265	281
Social sciences	1,928	1,994	2,043	2,015	2,050	2,170	2,146	2,184
Agricultural economics	32	34	39	32	21	19	23	22
Anthropology (cultural and social)	120	143	142	143	149	129	148	159
Economics	256	262	210	185	178	159	160	204
Geography	72	62	60	60	64	64	57	59
History and philosophy of science	4	3	6	8	8	14	11	12
Linguistics	38	30	39	51	33	35	39	33
Political science and public administration	878	910	928	886	902	979	1,010	913
Sociology	179	187	196	213	243	262	234	241
Other	349	363	423	437	452	509	464	541
Engineering	2,283	2,196	2,267	2,173	2,213	2,222	2,281	2,357
Aerospace	67	54	53	63	67	70	67	53
Agricultural	8	16	17	12	10	12	11	11
Biomedical	63	46	42	39	53	50	63	69
Chemical	120	133	130	105	114	128	112	108
Civil	396	422	508	488	504	498	541	509
Electrical	730	671	672	689	692	631	618	683
Engineering science/physics	31	24	49	32	30	29	26	29
Industrial/manufacturing	281	280	303	281	247	291	300	302
Mechanical	398	367	323	298	332	336	316	359
Metallurgical/materials	83	65	58	52	54	49	60	54
Mining	2	2	2	6	4	2	1	1

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	22	17	18	16	18	23	22	25
Petroleum	14	19	13	8	5	3	43	46
Other	68	80	79	84	83	100	101	108
American Indian/Alaskan Native								
S&E	693	753	768	804	797	745	734	808
Sciences	514	572	577	624	624	570	595	646
Agricultural sciences	21	30	22	34	45	46	34	35
Biological sciences	77	87	93	91	88	80	79	95
Anatomy	0	1	1	1	1	1	3	3
Biochemistry	6	10	10	7	9	2	5	9
Biology	22	23	26	30	24	27	22	27
Biometry/epidemiology	4	3	1	4	2	2	2	2
Biophysics	0	0	0	0	0	0	0	0
Botany	6	3	1	0	1	0	0	4
Cell/molecular biology	6	5	3	2	4	1	2	1
Ecology	2	1	0	2	2	3	2	3
Entomology/parasitology	0	0	1	1	1	0	0	1
Genetics	0	1	3	1	1	1	1	1
Microbiology, immunology, and virology	9	11	8	6	9	11	16	10
Nutrition	2	2	0	1	3	2	1	0
Pathology	3	2	5	8	7	6	5	9
Pharmacology	2	9	5	3	2	4	4	7
Physiology	4	3	6	3	5	3	1	3
Zoology	5	6	12	10	6	4	3	5
Other	6	7	11	12	11	13	12	10
Computer sciences	36	41	40	43	68	51	51	59
Earth, atmospheric, and ocean sciences	25	31	36	47	44	32	33	37
Atmospheric	1	3	2	1	2	2	3	3
Earth	14	12	17	21	18	13	17	17
Ocean	4	6	7	9	9	7	6	6
Other	6	10	10	16	15	10	7	11
Mathematics/statistics	24	43	24	29	16	12	14	22
Mathematics/applied mathematics	23	34	21	27	15	11	13	20
Statistics	1	9	3	2	1	1	1	2
Physical sciences	49	57	42	46	41	40	54	54
Astronomy	2	2	1	0	1	1	1	0
Chemistry	33	30	31	30	28	30	43	39
Physics	13	25	10	15	10	8	9	15
Other	1	0	0	1	2	1	1	0
Psychology	97	93	111	118	87	88	103	83
Clinical	32	32	38	39	28	30	32	23
General	29	36	41	44	34	32	34	36
Nonclinical	36	25	32	35	25	26	37	24
Social sciences	185	190	209	216	235	221	227	261
Agricultural economics	3	3	3	0	2	6	6	4
Anthropology (cultural and social)	34	40	44	44	49	45	49	46
Economics	13	9	9	8	11	4	6	12
Geography	10	14	13	10	8	9	13	18
History and philosophy of science	0	0	0	1	1	1	0	0
Linguistics	3	4	2	3	2	5	5	4
Political science and public administration	69	68	74	69	88	86	85	92
Sociology	21	13	20	26	23	26	19	25
Other	32	39	44	55	51	39	44	60

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering	179	181	191	180	173	175	139	162
Aerospace	4	6	5	3	7	8	6	6
Agricultural	0	0	1	6	2	1	1	1
Biomedical	10	3	5	5	5	7	4	4
Chemical	12	13	23	10	13	11	9	5
Civil	21	32	38	41	31	43	29	29
Electrical	45	46	45	39	25	36	26	39
Engineering science/physics	3	4	3	3	6	5	6	7
Industrial/manufacturing	17	17	18	17	23	23	27	30
Mechanical	44	37	28	27	20	25	19	23
Metallurgical/materials	5	7	7	9	27	5	3	6
Mining	1	0	1	0	0	0	1	0
Nuclear	2	1	2	2	1	1	0	0
Petroleum	2	2	1	1	2	0	1	1
Other	13	13	14	17	11	10	7	11
Other race/ethnicity								
S&E	9,137	11,170	10,586	10,932	10,901	10,462	11,710	12,063
Sciences	5,484	7,058	6,793	7,310	7,471	7,392	8,234	8,635
Agricultural sciences	165	235	168	189	161	160	226	267
Biological sciences	715	963	941	1,058	1,126	1,178	1,199	1,181
Anatomy	20	13	10	21	21	10	6	8
Biochemistry	36	76	77	82	70	81	84	100
Biology	285	417	352	379	407	399	342	304
Biometry/epidemiology	16	25	37	53	87	75	66	73
Biophysics	1	13	23	29	46	25	25	26
Botany	22	29	29	32	31	36	42	46
Cell/molecular biology	23	47	36	65	63	93	124	134
Ecology	21	45	37	50	33	22	45	44
Entomology/parasitology	19	16	17	11	12	13	11	19
Genetics	8	21	28	13	14	36	56	43
Microbiology, immunology, and virology	45	50	58	64	75	137	137	136
Nutrition	50	30	32	24	30	25	33	34
Pathology	34	14	31	39	37	29	26	33
Pharmacology	40	38	21	25	31	27	26	19
Physiology	39	30	28	43	30	40	43	34
Zoology	18	18	5	12	43	18	26	21
Other	38	81	120	116	96	112	107	107
Computer sciences	1,053	1,535	1,491	1,658	1,588	1,711	2,023	2,132
Earth, atmospheric, and ocean sciences	241	302	292	332	334	270	262	257
Atmospheric	11	11	6	42	15	19	17	18
Earth	119	165	155	165	167	152	143	129
Ocean	36	28	42	33	43	26	23	35
Other	75	98	89	92	109	73	79	75
Mathematics/statistics	503	520	425	438	467	379	422	435
Mathematics/applied mathematics	442	470	397	411	428	347	387	387
Statistics	61	50	28	27	39	32	35	48
Physical sciences	563	722	621	689	759	689	737	928
Astronomy	16	31	15	10	30	21	21	28
Chemistry	297	366	316	368	368	330	299	321
Physics	244	322	285	309	325	259	329	505
Other	6	3	5	2	36	79	88	74
Psychology	675	949	902	1,045	976	985	938	819
Clinical	125	140	133	184	130	181	145	176
General	298	537	553	623	552	547	515	376
Nonclinical	252	272	216	238	294	257	278	267

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Social sciences	1,569	1,832	1,953	1,901	2,060	2,020	2,427	2,616
Agricultural economics	19	50	28	30	39	15	29	48
Anthropology (cultural and social)	97	125	104	114	125	155	183	209
Economics	256	211	301	257	286	187	309	312
Geography	97	112	116	124	162	129	125	102
History and philosophy of science	1	7	6	22	10	10	16	20
Linguistics	31	38	25	44	42	43	63	58
Political science and public administration	706	804	936	861	864	806	927	1,024
Sociology	106	159	121	110	109	113	163	154
Other	256	326	316	339	423	562	612	689
Engineering	3,653	4,112	3,793	3,622	3,430	3,070	3,476	3,428
Aerospace	78	73	73	50	60	69	77	93
Agricultural	9	17	17	26	19	10	14	12
Biomedical	51	49	63	90	79	52	56	135
Chemical	157	146	176	164	176	170	163	101
Civil	456	537	592	491	447	423	415	435
Electrical	1,266	1,351	1,244	1,348	1,273	1,063	1,319	1,258
Engineering science/physics	30	70	53	28	25	39	84	109
Industrial/manufacturing	746	891	621	453	494	415	469	451
Mechanical	622	673	599	515	532	400	503	444
Metallurgical/materials	81	96	75	154	98	70	72	86
Mining	14	12	43	8	14	4	3	5
Nuclear	6	5	12	5	5	6	2	6
Petroleum	11	5	0	7	1	2	42	40
Other	126	187	225	283	207	347	257	253
Temporary resident								
S&E	76,237	72,341	70,991	70,684	71,935	76,940	85,277	92,890
Sciences	44,075	41,893	41,354	40,367	40,753	42,943	47,101	50,693
Agricultural sciences	2,281	2,219	2,088	1,892	1,760	1,648	1,537	1,559
Biological sciences	7,235	6,728	6,182	6,002	5,930	5,760	5,916	6,038
Anatomy	124	137	126	131	118	110	124	120
Biochemistry	1,065	958	852	816	820	793	878	823
Biology	1,085	1,047	1,028	1,062	1,059	1,015	1,010	1,039
Biometry/epidemiology	314	286	284	255	340	345	360	357
Biophysics	158	150	123	126	121	111	149	186
Botany	509	470	435	406	372	364	340	326
Cell/molecular biology	502	472	445	452	450	401	442	490
Ecology	101	101	96	107	99	100	99	108
Entomology/parasitology	258	268	220	205	211	218	195	190
Genetics	201	216	234	239	199	209	196	218
Microbiology, immunology, and virology	733	662	576	526	496	461	466	460
Nutrition	523	519	452	413	365	378	383	396
Pathology	225	202	195	169	155	169	171	157
Pharmacology	353	295	294	284	294	290	305	298
Physiology	372	313	264	254	254	266	256	218
Zoology	190	152	130	116	112	91	100	125
Other	522	480	428	441	465	439	442	527
Computer sciences	8,643	8,199	8,786	9,234	10,197	12,022	15,505	18,197
Earth, atmospheric, and ocean sciences	2,387	2,150	1,994	1,796	1,736	1,663	1,796	1,785
Atmospheric	180	180	200	193	167	169	202	171
Earth	1,368	1,210	1,138	1,003	950	893	947	962
Ocean	509	452	390	343	351	332	324	308
Other	330	308	266	257	268	269	323	344
Mathematics/statistics	4,374	4,153	4,099	3,845	3,638	3,866	3,923	4,134
Mathematics/applied mathematics	3,655	3,472	3,469	3,236	3,048	3,165	3,188	3,328
Statistics	719	681	630	609	590	701	735	806



TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Physical sciences	8,740	8,374	8,137	7,884	7,818	8,079	8,303	8,571
Astronomy	213	179	167	146	164	186	201	209
Chemistry	4,220	4,168	4,047	3,927	3,902	3,945	3,893	4,038
Physics	4,236	3,965	3,891	3,776	3,712	3,900	4,154	4,264
Other	71	62	32	35	40	48	55	60
Psychology	941	857	708	750	798	790	753	776
Clinical	137	132	101	107	113	116	84	94
General	433	382	332	355	376	389	357	357
Nonclinical	371	343	275	288	309	285	312	325
Social sciences	9,474	9,213	9,360	8,964	8,876	9,115	9,368	9,633
Agricultural economics	665	696	631	646	614	603	638	640
Anthropology (cultural and social)	394	351	328	328	352	375	362	348
Economics	3,829	3,796	3,873	3,738	3,584	3,753	3,844	4,097
Geography	328	321	318	327	350	361	381	432
History and philosophy of science	42	33	35	46	44	41	39	45
Linguistics	425	420	382	353	367	362	346	330
Political science and public administration	2,223	2,081	2,188	2,067	2,128	2,278	2,356	2,342
Sociology	689	621	583	578	511	511	527	520
Other	879	894	1,022	881	926	831	875	879
Engineering	32,162	30,448	29,637	30,317	31,182	33,997	38,176	42,197
Aerospace	1,142	1,091	1,167	1,174	1,259	1,364	1,326	1,401
Agricultural	394	382	370	330	304	307	291	308
Biomedical	647	573	541	530	534	607	668	764
Chemical	2,552	2,447	2,300	2,220	2,217	2,301	2,481	2,582
Civil	5,057	4,692	4,282	4,054	3,906	4,223	4,751	5,007
Electrical	9,992	9,699	9,712	10,647	11,515	12,466	14,728	16,345
Engineering science/physics	539	450	414	379	441	430	530	590
Industrial/manufacturing	3,029	2,835	2,776	2,764	2,769	3,074	3,627	4,406
Mechanical	5,367	5,005	4,991	5,081	5,041	5,549	6,138	6,727
Metallurgical/materials	1,657	1,595	1,546	1,551	1,557	1,577	1,652	1,785
Mining	177	156	121	117	72	97	118	100
Nuclear	362	335	262	260	248	275	274	287
Petroleum	348	326	317	353	408	429	315	361
Other	899	862	838	857	911	1,298	1,277	1,534

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-4. First-time enrollment of full-time S&amp;E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
S&E	78,036	74,362	73,447	73,600	74,373	75,429	78,678	82,520
Sciences	58,265	56,286	55,441	54,752	55,112	54,916	56,220	59,245
Agricultural sciences	2,300	2,239	2,122	2,102	2,249	2,201	2,267	2,324
Biological sciences	11,365	11,407	10,824	11,108	11,385	10,989	11,017	11,705
Anatomy	209	230	237	195	192	171	209	180
Biochemistry	1,032	983	947	998	1,022	896	928	851
Biology	2,742	2,690	2,579	2,687	2,498	2,521	2,292	2,425
Biometry/epidemiology	657	738	671	661	817	786	820	910
Biophysics	149	153	155	133	158	118	126	162
Botany	483	443	443	415	449	404	399	353
Cell/molecular biology	774	739	766	825	889	851	948	962
Ecology	285	308	245	244	256	248	277	348
Entomology/parasitology	206	184	202	194	233	179	185	202
Genetics	345	344	387	436	395	425	378	381
Microbiology, immunology, and virology	899	905	844	864	857	904	825	884
Nutrition	798	857	831	797	940	834	835	906
Pathology	334	296	291	350	279	320	272	320
Pharmacology	533	500	422	458	513	487	546	501
Physiology	649	811	725	633	654	608	565	615
Zoology	343	346	318	317	276	269	240	261
Other	927	880	761	901	957	968	1,172	1,444
Computer sciences	4,756	4,783	4,917	5,018	5,758	6,677	8,452	9,040
Earth, atmospheric, and ocean sciences	3,007	2,801	2,631	2,681	2,859	2,746	2,650	2,794
Atmospheric	224	198	213	224	189	203	222	205
Earth	1,519	1,423	1,326	1,339	1,348	1,296	1,231	1,383
Ocean	519	420	371	410	471	474	479	511
Other	745	760	721	708	851	773	718	695
Mathematics/statistics	3,963	3,578	3,450	3,302	3,334	3,271	3,417	3,686
Mathematics/applied mathematics	3,341	2,904	2,845	2,741	2,721	2,650	2,755	2,892
Statistics	622	674	605	561	613	621	662	794
Physical sciences	6,456	6,129	6,015	6,037	5,932	6,004	5,838	5,995
Astronomy	164	147	157	125	162	171	183	193
Chemistry	3,813	3,708	3,702	3,758	3,682	3,672	3,490	3,635
Physics	2,381	2,188	2,088	2,074	2,046	2,074	2,102	2,102
Other	98	86	68	80	42	87	63	65
Psychology	9,530	9,241	9,140	8,800	8,590	8,305	7,562	7,712
Clinical	2,235	2,092	2,115	2,059	2,001	1,992	1,829	1,726
General	3,483	3,372	3,178	3,187	3,060	2,745	2,551	2,678
Nonclinical	3,812	3,777	3,847	3,554	3,529	3,568	3,182	3,308
Social sciences	16,888	16,108	16,342	15,704	15,005	14,723	15,017	15,989
Agricultural economics	533	492	436	467	417	482	455	496
Anthropology (cultural and social)	1,331	1,247	1,252	1,196	1,219	1,193	1,160	1,119
Economics	2,793	2,605	2,466	2,368	2,352	2,355	2,525	2,562
Geography	959	836	870	914	805	830	789	870
History and philosophy of science	74	70	58	79	89	91	78	72
Linguistics	612	594	620	579	493	422	454	495
Political science and public administration	6,131	5,916	5,842	5,264	4,953	4,844	5,153	5,600
Sociology	1,548	1,503	1,505	1,525	1,428	1,307	1,303	1,425
Other	2,907	2,845	3,293	3,312	3,249	3,199	3,100	3,350
Engineering	19,771	18,076	18,006	18,848	19,261	20,513	22,458	23,275
Aerospace	793	650	687	735	717	727	775	772
Agricultural	193	177	183	165	155	202	177	187
Biomedical	566	592	572	671	695	734	926	859
Chemical	1,465	1,421	1,478	1,467	1,503	1,491	1,598	1,541
Civil	4,194	3,825	3,845	3,792	3,785	3,726	3,851	3,821
Electrical	5,450	4,974	4,850	5,505	5,685	6,306	7,335	7,828

TABLE D-4. First-time enrollment of full-time S&amp;E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	313	275	273	274	308	255	299	339
Industrial/manufacturing	1,731	1,541	1,605	1,549	1,547	1,851	2,021	2,166
Mechanical	3,218	2,832	2,785	2,829	2,923	3,119	3,342	3,583
Metallurgical/materials	858	822	791	870	900	892	1,005	975
Mining	85	53	51	73	44	45	48	40
Nuclear	208	187	182	178	153	150	163	164
Petroleum	100	109	122	121	132	149	149	153
Other	597	618	582	619	714	866	769	847
Female								
S&E	29,804	29,225	29,728	29,990	30,494	31,098	32,200	34,287
Sciences	26,307	25,836	26,167	26,200	26,630	26,845	27,337	29,256
Agricultural sciences	890	896	846	904	1,019	987	1,111	1,163
Biological sciences	5,648	5,682	5,507	5,767	6,062	5,961	6,151	6,700
Anatomy	106	94	108	97	98	82	122	103
Biochemistry	449	445	420	423	463	413	446	434
Biology	1,315	1,307	1,295	1,372	1,297	1,349	1,229	1,365
Biometry/epidemiology	391	415	404	389	510	507	531	610
Biophysics	28	44	36	32	40	41	41	45
Botany	226	215	203	228	241	211	221	192
Cell/molecular biology	353	345	383	406	441	447	498	506
Ecology	131	132	128	129	123	136	152	199
Entomology/parasitology	79	72	72	73	84	64	101	92
Genetics	210	210	230	270	254	261	243	244
Microbiology, immunology, and virology	453	442	425	453	458	487	445	514
Nutrition	603	644	655	630	722	649	654	717
Pathology	162	143	143	181	157	175	169	202
Pharmacology	263	241	217	221	274	270	289	288
Physiology	251	329	286	244	258	251	255	291
Zoology	170	158	149	157	135	126	113	139
Other	458	446	353	462	507	492	642	759
Computer sciences	1,075	1,153	1,223	1,288	1,517	1,797	2,233	2,375
Earth, atmospheric, and ocean sciences	1,109	1,090	1,030	1,076	1,264	1,278	1,211	1,315
Atmospheric	50	50	47	67	49	71	68	87
Earth	489	504	464	475	547	543	513	586
Ocean	214	187	180	191	242	244	254	271
Other	356	349	339	343	426	420	376	371
Mathematics/statistics	1,373	1,241	1,243	1,225	1,238	1,257	1,280	1,442
Mathematics/applied mathematics	1,136	948	991	999	965	961	943	1,030
Statistics	237	293	252	226	273	296	337	412
Physical sciences	1,856	1,775	1,831	1,885	1,724	1,921	1,897	1,919
Astronomy	36	41	49	40	46	46	62	53
Chemistry	1,406	1,331	1,372	1,454	1,294	1,434	1,399	1,390
Physics	378	361	373	355	371	409	408	450
Other	36	42	37	36	13	32	28	26
Psychology	6,536	6,390	6,408	6,230	6,172	6,022	5,609	5,850
Clinical	1,549	1,477	1,516	1,467	1,435	1,485	1,410	1,295
General	2,313	2,251	2,145	2,201	2,140	1,902	1,828	1,972
Nonclinical	2,674	2,662	2,747	2,562	2,597	2,635	2,371	2,583
Social sciences	7,820	7,609	8,079	7,825	7,634	7,622	7,845	8,492
Agricultural economics	196	186	158	166	157	193	195	203
Anthropology (cultural and social)	781	724	783	723	724	734	708	702
Economics	905	840	765	820	847	810	983	936
Geography	341	311	339	349	317	363	323	377
History and philosophy of science	28	23	24	33	38	41	31	31
Linguistics	386	352	415	416	329	275	286	327

TABLE D-4. First-time enrollment of full-time S&amp;E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	2,776	2,806	2,848	2,541	2,418	2,505	2,638	2,973
Sociology	974	912	950	949	922	852	856	953
Other	1,433	1,455	1,797	1,828	1,882	1,849	1,825	1,990
Engineering	3,497	3,389	3,561	3,790	3,864	4,253	4,863	5,031
Aerospace	99	73	86	94	89	96	127	111
Agricultural	41	44	48	57	47	76	64	68
Biomedical	157	182	181	231	222	247	348	315
Chemical	307	322	359	390	386	382	401	400
Civil	1,013	958	988	1,007	1,015	1,066	1,182	1,094
Electrical	694	731	715	824	893	1,079	1,264	1,523
Engineering science/physics	46	37	57	52	68	48	72	71
Industrial/manufacturing	441	352	314	327	313	349	461	438
Mechanical	351	321	379	393	350	390	438	478
Metallurgical/materials	189	193	208	211	251	248	243	262
Mining	11	5	10	16	9	10	11	7
Nuclear	22	27	39	25	29	35	43	40
Petroleum	12	14	15	9	15	21	25	23
Other	114	130	162	154	177	206	184	201
Male								
S&E	48,232	45,137	43,719	43,610	43,879	44,331	46,478	48,233
Sciences	31,958	30,450	29,274	28,552	28,482	28,071	28,883	29,989
Agricultural sciences	1,410	1,343	1,276	1,198	1,230	1,214	1,156	1,161
Biological sciences	5,717	5,725	5,317	5,341	5,323	5,028	4,866	5,005
Anatomy	103	136	129	98	94	89	87	77
Biochemistry	583	538	527	575	559	483	482	417
Biology	1,427	1,383	1,284	1,315	1,201	1,172	1,063	1,060
Biometry/epidemiology	266	323	267	272	307	279	289	300
Biophysics	121	109	119	101	118	77	85	117
Botany	257	228	240	187	208	193	178	161
Cell/molecular biology	421	394	383	419	448	404	450	456
Ecology	154	176	117	115	133	112	125	149
Entomology/parasitology	127	112	130	121	149	115	84	110
Genetics	135	134	157	166	141	164	135	137
Microbiology, immunology, and virology	446	463	419	411	399	417	380	370
Nutrition	195	213	176	167	218	185	181	189
Pathology	172	153	148	169	122	145	103	118
Pharmacology	270	259	205	237	239	217	257	213
Physiology	398	482	439	389	396	357	310	324
Zoology	173	188	169	160	141	143	127	122
Other	469	434	408	439	450	476	530	685
Computer sciences	3,681	3,630	3,694	3,730	4,241	4,880	6,219	6,665
Earth, atmospheric, and ocean sciences	1,898	1,711	1,601	1,605	1,595	1,468	1,439	1,479
Atmospheric	174	148	166	157	140	132	154	118
Earth	1,030	919	862	864	801	753	718	797
Ocean	305	233	191	219	229	230	225	240
Other	389	411	382	365	425	353	342	324
Mathematics/statistics	2,590	2,337	2,207	2,077	2,096	2,014	2,137	2,244
Mathematics/applied mathematics	2,205	1,956	1,854	1,742	1,756	1,689	1,812	1,862
Statistics	385	381	353	335	340	325	325	382
Physical sciences	4,600	4,354	4,184	4,152	4,208	4,083	3,941	4,076
Astronomy	128	106	108	85	116	125	121	140
Chemistry	2,407	2,377	2,330	2,304	2,388	2,238	2,091	2,245
Physics	2,003	1,827	1,715	1,719	1,675	1,665	1,694	1,652
Other	62	44	31	44	29	55	35	39

TABLE D-4. First-time enrollment of full-time S&amp;E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	2,994	2,851	2,732	2,570	2,418	2,283	1,953	1,862
Clinical	686	615	599	592	566	507	419	431
General	1,170	1,121	1,033	986	920	843	723	706
Nonclinical	1,138	1,115	1,100	992	932	933	811	725
Social sciences	9,068	8,499	8,263	7,879	7,371	7,101	7,172	7,497
Agricultural economics	337	306	278	301	260	289	260	293
Anthropology (cultural and social)	550	523	469	473	495	459	452	417
Economics	1,888	1,765	1,701	1,548	1,505	1,545	1,542	1,626
Geography	618	525	531	565	488	467	466	493
History and philosophy of science	46	47	34	46	51	50	47	41
Linguistics	226	242	205	163	164	147	168	168
Political science and public administration	3,355	3,110	2,994	2,723	2,535	2,339	2,515	2,627
Sociology	574	591	555	576	506	455	447	472
Other	1,474	1,390	1,496	1,484	1,367	1,350	1,275	1,360
Engineering	16,274	14,687	14,445	15,058	15,397	16,260	17,595	18,244
Aerospace	694	577	601	641	628	631	648	661
Agricultural	152	133	135	108	108	126	113	119
Biomedical	409	410	391	440	473	487	578	544
Chemical	1,158	1,099	1,119	1,077	1,117	1,109	1,197	1,141
Civil	3,181	2,867	2,857	2,785	2,770	2,660	2,669	2,727
Electrical	4,756	4,243	4,135	4,681	4,792	5,227	6,071	6,305
Engineering science/physics	267	238	216	222	240	207	227	268
Industrial/manufacturing	1,290	1,189	1,291	1,222	1,234	1,502	1,560	1,728
Mechanical	2,867	2,511	2,406	2,436	2,573	2,729	2,904	3,105
Metallurgical/materials	669	629	583	659	649	644	762	713
Mining	74	48	41	57	35	35	37	33
Nuclear	186	160	143	153	124	115	120	124
Petroleum	88	95	107	112	117	128	124	130
Other	483	488	420	465	537	660	585	646

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-5. Black U.S.-citizen and permanent-resident S&amp;E graduate students in all institutions and HBCUs, by field and sex: 2001

Field	All institutions			HBCUs			Black students in HBCUs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
S&E	21,773	13,291	8,482	3,753	2,443	1,310	17.2	18.4	15.4
Sciences	18,852	12,308	6,544	3,451	2,325	1,126	18.3	18.9	17.2
Agricultural sciences	301	192	109	151	109	42	50.2	56.8	38.5
Biological sciences	2,369	1,564	805	561	395	166	23.7	25.3	20.6
Anatomy	26	17	9	1	0	1	3.8	0.0	11.1
Biochemistry	129	76	53	22	10	12	17.1	13.2	22.6
Biology	755	507	248	259	190	69	34.3	37.5	27.8
Biometry and epidemiology	171	125	46	0	0	0	0.0	0.0	0.0
Biophysics	17	7	10	0	0	0	0.0	0.0	0.0
Botany	48	21	27	21	5	16	43.8	23.8	59.3
Cell and molecular biology	137	77	60	0	0	0	0.0	0.0	0.0
Ecology	26	13	13	0	0	0	0.0	0.0	0.0
Entomology and parasitology	15	6	9	0	0	0	0.0	0.0	0.0
Genetics	54	31	23	19	13	6	35.2	41.9	26.1
Microbiology, immunology, and virology	178	121	57	36	23	13	20.2	19.0	22.8
Nutrition	231	185	46	68	61	7	29.4	33.0	15.2
Pathology	50	32	18	0	0	0	0.0	0.0	0.0
Pharmacology	166	108	58	51	33	18	30.7	30.6	31.0
Physiology	98	56	42	27	20	7	27.6	35.7	16.7
Zoology	10	5	5	0	0	0	0.0	0.0	0.0
Other	258	177	81	57	40	17	22.1	22.6	21.0
Computer sciences	1,726	773	953	202	103	99	11.7	13.3	10.4
Earth, atmospheric, and ocean sciences	227	102	125	60	25	35	26.4	24.5	28.0
Atmospheric	19	7	12	12	4	8	63.2	57.1	66.7
Earth	57	25	32	0	0	0	0.0	0.0	0.0
Ocean	31	15	16	0	0	0	0.0	0.0	0.0
Other	120	55	65	48	21	27	40.0	38.2	41.5
Mathematics and statistics	591	271	320	121	58	63	20.5	21.4	19.7
Mathematics and applied mathematics	526	242	284	121	58	63	23.0	24.0	22.2
Statistics	65	29	36	0	0	0	0.0	0.0	0.0
Physical sciences	879	413	466	170	79	91	19.3	19.1	19.5
Astronomy	12	4	8	0	0	0	0.0	0.0	0.0
Chemistry	631	341	290	106	62	44	16.8	18.2	15.2
Physics	215	53	162	64	17	47	29.8	32.1	29.0
Other	21	15	6	0	0	0	0.0	0.0	0.0
Psychology	4,621	3,674	947	981	768	213	21.2	20.9	22.5
Clinical	751	603	148	0	0	0	0.0	0.0	0.0
Nonclinical	2,146	1,741	405	469	390	79	21.9	22.4	19.5
General	1,724	1,330	394	512	378	134	29.7	28.4	34.0
Social sciences	8,138	5,319	2,819	1,205	788	417	14.8	14.8	14.8
Agricultural economics	76	35	41	24	15	9	31.6	42.9	22.0
Anthropology (cultural and social)	274	216	58	0	0	0	0.0	0.0	0.0
Economics	314	151	163	18	9	9	5.7	6.0	5.5
Geography	114	53	61	0	0	0	0.0	0.0	0.0
History and philosophy of science	16	9	7	1	1	0	6.3	11.1	0.0
Linguistics	47	32	15	0	0	0	0.0	0.0	0.0
Political science and public administration	4,255	2,788	1,467	661	431	230	15.5	15.5	15.7
Sociology	999	685	314	162	111	51	16.2	16.2	16.2
Other	2,043	1,350	693	339	221	118	16.6	16.4	17.0
Engineering	2,921	983	1,938	302	118	184	10.3	12.0	9.5
Aerospace	45	4	41	0	0	0	0.0	0.0	0.0
Agricultural	26	16	10	1	1	0	3.8	6.3	0.0
Biomedical	121	62	59	0	0	0	0.0	0.0	0.0
Chemical	167	89	78	17	11	6	10.2	12.4	7.7

TABLE D-5. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2001

Field	All institutions			HBCUs			Black students in HBCUs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
Civil	431	158	273	60	21	39	13.9	13.3	14.3
Electrical	813	191	622	41	10	31	5.0	5.2	5.0
Engineering sciences/physics	33	10	23	0	0	0	0.0	0.0	0.0
Industrial/manufacturing	591	242	349	49	28	21	8.3	11.6	6.0
Mechanical	354	81	273	48	17	31	13.6	21.0	11.4
Metallurgical and materials	107	46	61	9	5	4	8.4	10.9	6.6
Mining	1	0	1	0	0	0	0.0	0.0	0.0
Nuclear	13	6	7	0	0	0	0.0	0.0	0.0
Petroleum	4	1	3	0	0	0	0.0	0.0	0.0
Other	215	77	138	77	25	52	35.8	32.5	37.7

HBCUs historically black colleges and universities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-6. Hispanic U.S.-citizen and permanent-resident S&amp;E graduate students in all institutions and HSIs, by field and sex: 2001

Page 1 of 2

Field	All institutions			HSIs			Hispanic students in HSIs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
S&E	22,321	12,656	9,665	7,476	4,620	2,856	33.5	36.5	29.5
Sciences	19,123	11,815	7,308	6,681	4,401	2,280	34.9	37.2	31.2
Agricultural sciences	422	211	211	179	86	93	42.4	40.8	44.1
Biological sciences	2,338	1,331	1,007	604	373	231	25.8	28.0	22.9
Anatomy	22	8	14	7	3	4	31.8	37.5	28.6
Biochemistry	171	84	87	30	15	15	17.5	17.9	17.2
Biology	700	387	313	360	212	148	51.4	54.8	47.3
Biometry and epidemiology	148	103	45	29	26	3	19.6	25.2	6.7
Biophysics	20	3	17	0	0	0	0.0	0.0	0.0
Botany	44	21	23	0	0	0	0.0	0.0	0.0
Cell and molecular biology	180	97	83	9	4	5	5.0	4.1	6.0
Ecology	58	40	18	0	0	0	0.0	0.0	0.0
Entomology and parasitology	39	18	21	0	0	0	0.0	0.0	0.0
Genetics	67	43	24	2	2	0	3.0	4.7	0.0
Microbiology, immunology, and virology	220	120	100	27	16	11	12.3	13.3	11.0
Nutrition	162	134	28	53	42	11	32.7	31.3	39.3
Pathology	67	36	31	2	2	0	3.0	5.6	0.0
Pharmacology	113	62	51	8	5	3	7.1	8.1	5.9
Physiology	60	26	34	8	6	2	13.3	23.1	5.9
Zoology	29	13	16	0	0	0	0.0	0.0	0.0
Other	238	136	102	69	40	29	29.0	29.4	28.4
Computer sciences	901	245	656	134	37	97	14.9	15.1	14.8
Earth, atmospheric, and ocean sciences	397	201	196	126	60	66	31.7	29.9	33.7
Atmospheric	15	7	8	0	0	0	0.0	0.0	0.0
Earth	155	78	77	41	24	17	26.5	30.8	22.1
Ocean	137	65	72	76	35	41	55.5	53.8	56.9
Other	90	51	39	9	1	8	10.0	2.0	20.5
Mathematics and statistics	498	169	329	157	53	104	31.5	31.4	31.6
Mathematics and applied mathematics	458	156	302	149	48	101	32.5	30.8	33.4
Statistics	40	13	27	8	5	3	20.0	38.5	11.1
Physical sciences	896	357	539	341	161	180	38.1	45.1	33.4
Astronomy	17	5	12	1	0	1	5.9	0.0	8.3
Chemistry	629	292	337	242	134	108	38.5	45.9	32.0
Physics	239	58	181	93	27	66	38.9	46.6	36.5
Other	11	2	9	5	0	5	45.5	0.0	55.6
Psychology	4,323	3,273	1,050	1,784	1,355	429	41.3	41.4	40.9
Clinical	1,488	1,155	333	808	633	175	54.3	54.8	52.6
Nonclinical	1,818	1,382	436	685	507	178	37.7	36.7	40.8
General	1,017	736	281	291	215	76	28.6	29.2	27.0
Social sciences	5,010	2,826	2,184	1,558	918	640	31.1	32.5	29.3
Agricultural economics	40	18	22	9	5	4	22.5	27.8	18.2
Anthropology (cultural and social)	383	224	159	30	21	9	7.8	9.4	5.7
Economics	306	102	204	88	38	50	28.8	37.3	24.5
Geography	106	47	59	10	2	8	9.4	4.3	13.6
History and philosophy of science	18	6	12	0	0	0	0.0	0.0	0.0
Linguistics	126	93	33	31	22	9	24.6	23.7	27.3
Political science and public administration	2,171	1,258	913	793	494	299	36.5	39.3	32.7
Sociology	605	364	241	137	81	56	22.6	22.3	23.2
Other	1,255	714	541	460	255	205	36.7	35.7	37.9
Engineering	3,198	841	2,357	795	219	576	24.9	26.0	24.4
Aerospace	70	17	53	0	0	0	0.0	0.0	0.0
Agricultural	27	16	11	0	0	0	0.0	0.0	0.0
Biomedical	101	32	69	7	2	5	6.9	6.3	7.2
Chemical	180	72	108	43	15	28	23.9	20.8	25.9



TABLE D-6. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2001

Field	All institutions			HSIs			Hispanic students in HSIs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
Civil	746	237	509	227	74	153	30.4	31.2	30.1
Electrical	825	142	683	239	44	195	29.0	31.0	28.6
Engineering sciences/physics	40	11	29	0	0	0	0.0	0.0	0.0
Industrial/manufacturing	469	167	302	134	58	76	28.6	34.7	25.2
Mechanical	425	66	359	93	15	78	21.9	22.7	21.7
Metallurgical and materials	80	26	54	8	3	5	10.0	11.5	9.3
Mining	3	2	1	0	0	0	0.0	0.0	0.0
Nuclear	34	9	25	5	1	4	14.7	11.1	16.0
Petroleum	63	17	46	3	1	2	4.8	5.9	4.3
Other	135	27	108	36	6	30	26.7	22.2	27.8

HSIs Hispanic-serving institutions

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-7. Disability status of S&amp;E graduate students, by sex, age, race/ethnicity, enrollment, and citizenship status: 2000

(Percent; standard errors in parentheses)

Sex, age, race/ethnicity, and enrollment and citizenship status	All students	No disability	With disability
All S&E graduate students	100.0 (0.0)	91.7 (0.6)	8.3 (0.6)
Female	47.2 (1.4)	46.6 (1.4)	54.1 (3.8)
Male	52.8 (1.4)	53.4 (1.4)	45.9 (3.8)
Age (years)			
15-23	11.2 (0.8)	11.6 (0.9)	6.5 (1.8)
24-29	45.8 (1.2)	47.0 (1.2)	32.6 (3.2)
39 and older	43.0 (1.2)	41.4 (1.3)	60.9 (3.5)
Race/ethnicity			
White	61.1 (1.3)	59.9 (1.3)	74.1 (3.9)
Asian	19.0 (1.0)	20.3 (1.1)	4.9 (1.7)
Native Hawaiian/Pacific Islander	0.9 (0.3)	1.0 (0.4)	0.0 (0.0)
Black	7.0 (0.7)	7.1 (0.7)	6.2 (1.8)
Hispanic	6.8 (0.7)	6.6 (0.7)	8.3 (3.0)
American Indian/Alaska Native	0.7 (0.2)	0.5 (0.2)	2.6 (1.1)
Other	2.8 (0.4)	2.9 (0.4)	1.4 (0.8)
More than one race	1.8 (0.3)	1.7 (0.3)	2.5 (1.5)
Enrollment status			
Mostly full time	69.3 (1.5)	69.9 (1.6)	63.7 (4.9)
Mostly part time	25.3 (1.5)	25.1 (1.5)	27.4 (4.7)
Mix of full and part time	5.4 (0.8)	5.0 (0.8)	8.9 (3.6)
Citizenship status			
U.S. citizen	75.3 (1.1)	73.8 (1.2)	91.7 (1.9)
Resident alien	3.7 (0.4)	3.7 (0.5)	3.6 (0.9)
Foreign/international student	21.0 (1.1)	22.5 (1.1)	4.7 (1.5)

NOTES: Enrollment status was determined by graduate student responses to the question, *Since you started working on your degree, have you been enrolled mainly as a full-time student or part-time student?* For disability status, those who reported any type of disability at all related to blindness, deafness, a severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more are classified as "with disability."

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

TABLE D-8. Field distribution of graduate student enrollment, by disability status: 2000

(Percent; standard errors in parentheses)

Field	All students	No disability	With disability
Business/management	18.4 (0.8)	18.9 (0.9)	12.9 (1.8)
Education	24.4 (0.8)	24.5 (0.8)	24.0 (2.2)
Engineering/computer sciences/mathematics	8.6 (0.5)	8.7 (0.5)	7.7 (1.4)
Health	14.8 (0.9)	15.0 (0.9)	11.8 (1.8)
Humanities	9.5 (0.8)	9.1 (0.8)	14.9 (1.6)
Law	5.0 (0.5)	5.1 (0.5)	4.1 (0.9)
Life/physical sciences	6.2 (0.3)	6.2 (0.3)	6.6 (1.1)
Social/behavioral sciences	8.2 (0.6)	7.8 (0.6)	12.6 (1.5)
Other	4.9 (0.3)	4.8 (0.3)	5.5 (1.2)

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

TABLE D-9. Enrollment status of S&amp;E graduate students, by field and sex: 2001

Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Total S&E	429,492	304,476	125,016	177,644	124,347	53,297	251,848	180,129	71,719
Sciences	319,986	226,904	93,082	155,417	108,156	47,261	164,569	118,748	45,821
Agricultural sciences	11,911	9,202	2,709	5,202	4,120	1,082	6,709	5,082	1,627
Biological sciences	57,826	48,351	9,475	31,096	25,489	5,607	26,730	22,862	3,868
Anatomy	867	806	61	419	384	35	448	422	26
Biochemistry	4,917	4,642	275	2,223	2,096	127	2,694	2,546	148
Biology	13,355	9,791	3,564	7,170	5,122	2,048	6,185	4,669	1,516
Biometry and epidemiology	3,629	2,665	964	2,358	1,735	623	1,271	930	341
Biophysics	893	853	40	265	254	11	628	599	29
Botany	2,182	1,906	276	1,084	943	141	1,098	963	135
Cell and molecular biology	4,768	4,398	370	2,446	2,201	245	2,322	2,197	125
Ecology	1,848	1,374	474	960	727	233	888	647	241
Entomology and parasitology	1,170	989	181	480	418	62	690	571	119
Genetics	1,833	1,735	98	1,041	987	54	792	748	44
Microbiology, immunology, and virology	4,798	4,500	298	2,495	2,346	149	2,303	2,154	149
Nutrition	4,429	3,269	1,160	3,436	2,490	946	993	779	214
Pathology	1,649	1,362	287	901	745	156	748	617	131
Pharmacology	3,052	2,658	394	1,606	1,386	220	1,446	1,272	174
Physiology	1,967	1,827	140	911	841	70	1,056	986	70
Zoology	1,448	1,268	180	685	602	83	763	666	97
Other	5,021	4,308	713	2,616	2,212	404	2,405	2,096	309
Computer sciences	52,196	30,098	22,098	15,294	8,321	6,973	36,902	21,777	15,125
Earth, atmospheric, and ocean sciences	13,841	10,504	3,337	5,892	4,568	1,324	7,949	5,936	2,013
Atmospheric	924	812	112	298	273	25	626	539	87
Earth	6,544	5,222	1,322	2,483	2,039	444	4,061	3,183	878
Ocean	2,585	2,058	527	1,255	1,016	239	1,330	1,042	288
Other	3,788	2,412	1,376	1,856	1,240	616	1,932	1,172	760
Mathematics and statistics	16,663	12,498	4,165	6,277	4,388	1,889	10,386	8,110	2,276
Mathematics and applied mathematics	13,594	10,055	3,539	4,828	3,219	1,609	8,766	6,836	1,930
Statistics	3,069	2,443	626	1,449	1,169	280	1,620	1,274	346
Physical sciences	30,988	27,129	3,859	9,332	8,082	1,250	21,656	19,047	2,609
Astronomy	916	860	56	265	253	12	651	607	44
Chemistry	18,300	16,012	2,288	6,848	5,916	932	11,452	10,096	1,356
Physics	11,264	10,023	1,241	2,045	1,826	219	9,219	8,197	1,022
Other	508	234	274	174	87	87	334	147	187
Psychology	50,798	34,533	16,265	37,583	25,212	12,371	13,215	9,321	3,894
Clinical	12,473	9,682	2,791	9,389	7,235	2,154	3,084	2,447	637
General	16,022	11,315	4,707	11,438	8,008	3,430	4,584	3,307	1,277
Nonclinical	22,303	13,536	8,767	16,756	9,969	6,787	5,547	3,567	1,980
Social sciences	85,763	54,589	31,174	44,741	27,976	16,765	41,022	26,613	14,409
Agricultural economics	2,161	1,869	292	835	726	109	1,326	1,143	183
Anthropology (cultural and social)	7,491	5,577	1,914	4,562	3,368	1,194	2,929	2,209	720
Economics	11,340	9,162	2,178	3,982	3,205	777	7,358	5,957	1,401
Geography	4,276	2,904	1,372	1,786	1,223	563	2,490	1,681	809
History and philosophy of science	571	400	171	244	174	70	327	226	101
Linguistics	2,744	2,177	567	1,793	1,408	385	951	769	182
Political science and public administration	31,850	16,672	15,178	16,518	8,376	8,142	15,332	8,296	7,036
Sociology	8,775	6,118	2,657	5,709	3,934	1,775	3,066	2,184	882
Other	16,555	9,710	6,845	9,312	5,562	3,750	7,243	4,148	3,095
Engineering	109,506	77,572	31,934	22,227	16,191	6,036	87,279	61,381	25,898
Aerospace	3,485	2,855	630	485	386	99	3,000	2,469	531
Agricultural	907	758	149	284	247	37	623	511	112
Biomedical	3,593	3,123	470	1,241	1,082	159	2,352	2,041	311
Chemical	6,913	5,829	1,084	1,829	1,540	289	5,084	4,289	795
Civil	16,604	12,099	4,505	4,479	3,419	1,060	12,125	8,680	3,445

TABLE D-9. Enrollment status of S&amp;E graduate students, by field and sex: 2001

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Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Electrical	35,745	25,112	10,633	6,030	4,341	1,689	29,715	20,771	8,944
Engineering sciences/physics	1,798	1,218	580	363	257	106	1,435	961	474
Industrial/manufacturing	12,940	6,534	6,406	2,808	1,429	1,379	10,132	5,105	5,027
Mechanical	15,831	11,436	4,395	1,939	1,438	501	13,892	9,998	3,894
Metallurgical and materials	4,721	3,977	744	1,173	989	184	3,548	2,988	560
Mining	240	194	46	36	31	5	204	163	41
Nuclear	801	651	150	157	128	29	644	523	121
Petroleum	680	515	165	92	78	14	588	437	151
Other	5,248	3,271	1,977	1,311	826	485	3,937	2,445	1,492

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-10. Enrollment status of S&amp;E graduate students, by field, citizenship, and race/ethnicity: 2001

Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
S&E	429,492	205,757	27,659	21,773	17,983	1,687	21,335	133,298
Full time	304,476	134,969	18,131	12,164	11,400	1,138	11,904	114,770
Part time	125,016	70,788	9,528	9,609	6,583	549	9,431	18,528
Sciences	319,986	167,437	19,057	18,852	14,785	1,460	17,007	81,388
Full time	226,904	113,354	12,888	10,498	9,588	1,009	9,811	69,756
Part time	93,082	54,083	6,169	8,354	5,197	451	7,196	11,632
Agricultural sciences	11,911	7,894	258	301	422	57	476	2,503
Full time	9,202	5,829	207	241	305	41	350	2,229
Part time	2,709	2,065	51	60	117	16	126	274
Biological sciences	57,826	33,311	4,719	2,369	2,338	205	2,499	12,385
Full time	48,351	26,933	4,102	1,839	1,892	176	1,970	11,439
Part time	9,475	6,378	617	530	446	29	529	946
Anatomy	867	522	71	26	22	4	13	209
Full time	806	476	69	23	21	4	11	202
Part time	61	46	2	3	1	0	2	7
Biochemistry	4,917	2,373	477	129	171	15	173	1,579
Full time	4,642	2,236	447	119	158	15	154	1,513
Part time	275	137	30	10	13	0	19	66
Biology	13,355	8,281	762	755	700	52	659	2,146
Full time	9,791	5,951	553	501	459	37	433	1,857
Part time	3,564	2,330	209	254	241	15	226	289
Biometry and epidemiology	3,629	1,848	419	171	148	11	181	851
Full time	2,665	1,248	315	126	107	11	119	739
Part time	964	600	104	45	41	0	62	112
Biophysics	893	430	132	17	20	1	32	261
Full time	853	400	130	17	20	0	31	255
Part time	40	30	2	0	0	1	1	6
Botany	2,182	1,288	99	48	44	9	82	612
Full time	1,906	1,079	92	46	40	7	66	576
Part time	276	209	7	2	4	2	16	36
Cell and molecular biology	4,768	2,558	520	137	180	10	286	1,077
Full time	4,398	2,325	493	122	175	9	253	1,021
Part time	370	233	27	15	5	1	33	56
Ecology	1,848	1,428	47	26	58	8	89	192
Full time	1,374	1,037	34	15	35	7	74	172
Part time	474	391	13	11	23	1	15	20
Entomology and parasitology	1,170	764	46	15	39	2	29	275
Full time	989	620	42	15	37	2	26	247
Part time	181	144	4	0	2	0	3	28
Genetics	1,833	1,041	147	54	67	7	101	416
Full time	1,735	973	142	49	63	7	100	401
Part time	98	68	5	5	4	0	1	15
Microbiology, immunology, and virology	4,798	2,658	479	178	220	13	246	1,004
Full time	4,500	2,468	444	162	213	13	232	968
Part time	298	190	35	16	7	0	14	36
Nutrition	4,429	2,445	254	231	162	15	162	1,160
Full time	3,269	1,667	194	142	120	13	119	1,014
Part time	1,160	778	60	89	42	2	43	146
Pathology	1,649	968	186	50	67	11	74	293
Full time	1,362	751	160	41	55	8	64	283
Part time	287	217	26	9	12	3	10	10

TABLE D-10. Enrollment status of S&amp;E graduate students, by field, citizenship, and race/ethnicity: 2001

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Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
Pharmacology	3,052	1,727	335	166	113	10	53	648
Full time	2,658	1,445	298	146	101	10	38	620
Part time	394	282	37	20	12	0	15	28
Physiology	1,967	1,035	288	98	60	7	48	431
Full time	1,827	929	281	95	56	7	44	415
Part time	140	106	7	3	4	0	4	16
Zoology	1,448	1,100	33	10	29	8	44	224
Full time	1,268	961	29	7	23	5	38	205
Part time	180	139	4	3	6	3	6	19
Other	5,021	2,845	424	258	238	22	227	1,007
Full time	4,308	2,367	379	213	209	21	168	951
Part time	713	478	45	45	29	1	59	56
Computer sciences	52,196	15,039	5,716	1,726	901	88	2,977	25,749
Full time	30,098	6,004	2,528	658	305	42	837	19,724
Part time	22,098	9,035	3,188	1,068	596	46	2,140	6,025
Earth, atmospheric, and ocean sciences	13,841	9,583	352	227	397	70	451	2,761
Full time	10,504	6,967	277	140	297	53	319	2,451
Part time	3,337	2,616	75	87	100	17	132	310
Atmospheric	924	547	37	19	15	4	28	274
Full time	812	468	34	17	13	3	22	255
Part time	112	79	3	2	2	1	6	19
Earth	6,544	4,613	139	57	155	32	203	1,345
Full time	5,222	3,541	115	45	115	26	155	1,225
Part time	1,322	1,072	24	12	40	6	48	120
Ocean sciences	2,585	1,769	51	31	137	12	71	514
Full time	2,058	1,334	43	29	112	10	53	477
Part time	527	435	8	2	25	2	18	37
Other	3,788	2,654	125	120	90	22	149	628
Full time	2,412	1,624	85	49	57	14	89	494
Part time	1,376	1,030	40	71	33	8	60	134
Mathematics and statistics	16,663	7,386	997	591	498	38	683	6,470
Full time	12,498	4,959	637	361	301	20	422	5,798
Part time	4,165	2,427	360	230	197	18	261	672
Mathematics	13,594	6,322	825	526	458	34	582	4,847
Full time	10,055	4,220	535	320	275	17	360	4,328
Part time	3,539	2,102	290	206	183	17	222	519
Statistics	3,069	1,064	172	65	40	4	101	1,623
Full time	2,443	739	102	41	26	3	62	1,470
Part time	626	325	70	24	14	1	39	153
Physical sciences	30,988	14,235	1,612	879	896	81	1,292	11,993
Full time	27,129	12,172	1,352	687	731	67	870	11,250
Part time	3,859	2,063	260	192	165	14	422	743
Astronomy	916	527	36	12	17	0	41	283
Full time	860	494	35	10	16	0	34	271
Part time	56	33	1	2	1	0	7	12
Chemistry	18,300	8,965	1,104	631	629	62	523	6,386
Full time	16,012	7,709	893	482	517	51	381	5,979
Part time	2,288	1,256	211	149	112	11	142	407
Physics	11,264	4,484	455	215	239	19	622	5,230
Full time	10,023	3,857	417	185	194	16	444	4,910
Part time	1,241	627	38	30	45	3	178	320

TABLE D-10. Enrollment status of S&amp;E graduate students, by field, citizenship, and race/ethnicity: 2001

Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
Other	508	259	17	21	11	0	106	94
Full time	234	112	7	10	4	0	11	90
Part time	274	147	10	11	7	0	95	4
Psychology	50,798	33,558	2,165	4,621	4,323	336	3,282	2,513
Full time	34,533	23,110	1,581	2,565	2,994	228	2,042	2,013
Part time	16,265	10,448	584	2,056	1,329	108	1,240	500
Clinical	12,473	8,346	574	751	1,488	92	797	425
Full time	9,682	6,473	453	585	1,189	71	559	352
Part time	2,791	1,873	121	166	299	21	238	73
General	16,022	10,514	729	1,724	1,017	104	1,006	928
Full time	11,315	7,603	547	919	679	72	711	784
Part time	4,707	2,911	182	805	338	32	295	144
Nonclinical	22,303	14,698	862	2,146	1,818	140	1,479	1,160
Full time	13,536	9,034	581	1,061	1,126	85	772	877
Part time	8,767	5,664	281	1,085	692	55	707	283
Social sciences	85,763	46,431	3,238	8,138	5,010	585	5,347	17,014
Full time	54,589	27,380	2,204	4,007	2,763	382	3,001	14,852
Part time	31,174	19,051	1,034	4,131	2,247	203	2,346	2,162
Agricultural economics	2,161	888	29	76	40	4	72	1,052
Full time	1,869	741	24	52	35	3	64	950
Part time	292	147	5	24	5	1	8	102
Anthropology (cultural and social)	7,491	5,190	253	274	383	102	520	769
Full time	5,577	3,808	196	207	286	70	352	658
Part time	1,914	1,382	57	67	97	32	168	111
Economics	11,340	3,468	502	314	306	21	482	6,247
Full time	9,162	2,409	358	181	182	17	332	5,683
Part time	2,178	1,059	144	133	124	4	150	564
Geography	4,276	3,031	97	114	106	28	178	722
Full time	2,904	1,949	65	57	69	16	119	629
Part time	1,372	1,082	32	57	37	12	59	93
History and philosophy of science	571	414	21	16	18	2	30	70
Full time	400	278	16	9	9	0	21	67
Part time	171	136	5	7	9	2	9	3
Linguistics	2,744	1,293	154	47	126	13	149	962
Full time	2,177	955	116	34	78	12	102	880
Part time	567	338	38	13	48	1	47	82
Political science/public administration	31,850	17,728	1,215	4,255	2,171	190	2,039	4,252
Full time	16,672	8,539	732	1,840	968	89	955	3,549
Part time	15,178	9,189	483	2,415	1,203	101	1,084	703
Sociology	8,775	5,069	359	999	605	66	371	1,306
Full time	6,118	3,507	266	574	405	52	246	1,068
Part time	2,657	1,562	93	425	200	14	125	238
Sociology/anthropology	808	495	14	131	28	16	39	85
Full time	578	359	7	81	21	15	23	72
Part time	230	136	7	50	7	1	16	13
Other	15,747	8,855	594	1,912	1,227	143	1,467	1,549
Full time	9,132	4,835	424	972	710	108	787	1,296
Part time	6,615	4,020	170	940	517	35	680	253
Engineering	109,506	38,320	8,602	2,921	3,198	227	4,328	51,910
Full time	77,572	21,615	5,243	1,666	1,812	129	2,093	45,014
Part time	31,934	16,705	3,359	1,255	1,386	98	2,235	6,896



TABLE D-10. Enrollment status of S&amp;E graduate students, by field, citizenship, and race/ethnicity: 2001

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Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
Aerospace	3,485	1,447	203	45	70	8	108	1,604
Full time	2,855	1,035	173	35	45	4	68	1,495
Part time	630	412	30	10	25	4	40	109
Agricultural	907	375	44	26	27	3	22	410
Full time	758	291	39	19	20	3	20	366
Part time	149	84	5	7	7	0	2	44
Biomedical	3,593	1,608	423	121	101	5	201	1,134
Full time	3,123	1,379	359	98	84	5	160	1,038
Part time	470	229	64	23	17	0	41	96
Chemical	6,913	2,417	576	167	180	13	147	3,413
Full time	5,829	1,844	491	135	152	9	81	3,117
Part time	1,084	573	85	32	28	4	66	296
Civil	16,604	7,462	789	431	746	43	590	6,543
Full time	12,099	4,689	539	261	496	24	311	5,779
Part time	4,505	2,773	250	170	250	19	279	764
Electrical	35,745	8,817	3,728	813	825	45	1,544	19,973
Full time	25,112	4,483	2,044	439	376	27	764	16,979
Part time	10,633	4,334	1,684	374	449	18	780	2,994
Engineering sciences/physics	1,798	717	123	33	40	9	132	744
Full time	1,218	405	81	20	23	6	30	653
Part time	580	312	42	13	17	3	102	91
Industrial/manufacturing	12,940	5,255	696	591	469	43	563	5,323
Full time	6,534	1,365	276	200	171	16	145	4,361
Part time	6,406	3,890	420	391	298	27	418	962
Mechanical	15,831	5,897	1,072	354	425	32	510	7,541
Full time	11,436	3,456	737	247	246	18	219	6,513
Part time	4,395	2,441	335	107	179	14	291	1,028
Metallurgical and materials	4,721	1,839	244	107	80	8	107	2,336
Full time	3,977	1,356	191	94	66	6	63	2,201
Part time	744	483	53	13	14	2	44	135
Mining	240	115	12	1	3	0	5	104
Full time	194	85	10	0	3	0	2	94
Part time	46	30	2	1	0	0	3	10
Nuclear	801	364	27	13	34	0	7	356
Full time	651	252	20	12	25	0	5	337
Part time	150	112	7	1	9	0	2	19
Petroleum	680	112	39	4	63	1	48	413
Full time	515	43	34	3	49	1	45	340
Part time	165	69	5	1	14	0	3	73
Other	5,248	1,895	626	215	135	17	344	2,016
Full time	3,271	932	249	103	56	10	180	1,741
Part time	1,977	963	377	112	79	7	164	275

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-11. Primary source of support for full-time S&E graduate students, by sex and field: 2001

Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS						Institutional support	Total	United States	Foreign		
					Total	NIH	Other	NASA	NSF	USDA						Other
<b>Both sexes</b>																
S&E	304,476	60,088	7,676	3,100	17,976	16,446	1,530	2,789	15,319	2,705	10,523	129,742	25,884	22,336	3,548	88,762
Sciences	226,904	43,049	3,258	1,808	16,700	15,325	1,375	1,439	9,892	2,445	7,507	101,889	14,820	12,360	2,460	67,146
Agricultural	9,202	1,945	47	29	40	29	11	63	128	1,061	577	3,949	1,529	1,346	183	1,779
Biological	48,351	16,709	352	165	12,265	11,591	674	77	1,636	841	1,373	21,288	3,653	3,283	370	6,701
Computer	30,098	4,240	1,259	120	173	101	72	166	1,869	25	628	8,973	1,927	1,606	321	14,958
Earth, atmospheric, and ocean	10,504	2,916	257	137	60	37	23	456	1,127	65	814	4,673	901	716	185	2,014
Mathematical	12,498	1,388	212	40	108	89	19	23	763	20	222	8,594	506	297	209	2,010
Physical	27,129	9,284	855	1,256	2,088	1,833	255	502	3,344	42	1,197	14,456	1,974	1,847	127	1,415
Psychology	34,533	3,230	147	1	1,592	1,368	224	27	283	13	1,167	13,133	1,243	1,178	65	16,927
Social	54,589	3,337	129	60	374	277	97	125	742	378	1,529	26,823	3,087	2,087	1,000	21,342
Engineering	77,572	17,039	4,418	1,292	1,276	1,121	155	1,350	5,427	260	3,016	27,853	11,064	9,976	1,088	21,616
Aerospace	2,855	1,004	411	34	5	5	0	367	106	0	81	875	361	317	44	615
Chemical	5,829	1,681	140	257	179	136	43	108	710	35	252	2,252	1,095	984	111	801
Civil	12,099	1,923	178	82	27	26	1	79	595	38	924	4,968	1,511	1,335	176	3,697
Electrical	25,112	4,949	1,974	138	146	106	40	328	1,632	13	718	7,991	3,419	3,171	248	8,753
Industrial	6,534	803	241	46	40	29	11	29	276	8	163	2,429	746	605	141	2,556
Mechanical	11,436	2,761	689	214	159	147	12	280	1,002	11	406	4,498	1,711	1,564	147	2,466
Metallurgical and materials	3,977	1,477	353	222	29	23	6	66	620	5	182	1,244	823	773	50	433
Other	9,730	2,441	432	299	691	649	42	93	486	150	290	3,596	1,398	1,227	171	2,295
<b>Female</b>																
S&E	124,347	21,324	1,368	672	8,725	7,997	728	722	4,571	1,215	4,051	54,172	8,124	7,173	951	40,727
Sciences	16,191	3,363	609	217	368	323	45	250	1,213	67	639	6,090	2,190	2,023	167	4,548
Agricultural	1,429	173	35	9	12	10	2	9	76	0	32	529	161	136	25	566
Biological	1,438	385	73	29	30	25	5	50	146	1	56	626	190	179	11	237
Computer	4,341	751	274	13	33	21	12	46	280	4	101	1,399	523	492	31	1,668
Earth, atmospheric, and ocean	1,540	476	28	60	56	44	12	37	231	8	56	584	268	245	23	212
Mathematical	3,419	527	41	15	10	9	1	17	167	11	266	1,473	411	374	37	1,008
Physical	386	112	33	4	1	1	0	51	15	0	8	135	55	52	3	84
Psychology	989	331	67	42	13	11	2	23	147	1	38	342	204	195	9	112
Social	2,649	608	58	45	213	202	11	17	151	42	82	1,002	378	350	28	661
Engineering	108,156	17,961	759	455	8,357	7,674	683	472	3,358	1,148	3,412	48,082	5,934	5,150	784	36,179
Aerospace	8,082	2,520	174	255	728	642	86	122	909	12	320	4,591	526	504	22	445
Chemical	4,568	1,214	73	55	27	14	13	196	480	22	361	2,112	319	264	55	923
Civil	4,388	383	17	13	50	39	11	4	197	4	98	3,016	167	102	65	822
Electrical	8,321	801	186	24	34	23	11	40	381	7	129	2,326	393	335	58	4,801

TABLE D-11. Primary source of support for full-time S&E graduate students, by sex and field: 2001

Sex and field	All sources	Federal support										Other outside support				
		Total	DOD	DOE	HHS						Institutional support	United States		Self-support		
					Total	NIH	Other	NASA	NSF	USDA		Other	Total		Foreign	
Industrial	4,120	846	19	11	18	14	4	23	65	463	247	1,866	579	530	49	829
Mechanical	25,489	8,386	180	61	6,184	5,856	328	26	800	452	683	11,381	1,745	1,587	158	3,977
Metallurgical and materials	25,212	2,151	77	0	1,078	910	168	15	174	12	795	9,290	847	801	46	12,924
Other	27,976	1,660	33	36	238	176	62	46	352	176	779	13,500	1,358	1,027	331	11,458
Male																
S&E	180,129	38,764	6,308	2,428	9,251	8,449	802	2,067	10,748	1,490	6,472	75,570	17,760	15,163	2,597	48,035
Sciences	118,748	25,088	2,499	1,353	8,343	7,651	692	967	6,534	1,297	4,095	53,807	8,886	7,210	1,676	30,967
Agricultural	5,082	1,099	28	18	22	15	7	40	63	598	330	2,083	950	816	134	950
Biological	22,862	8,323	172	104	6,081	5,735	346	51	836	389	690	9,907	1,908	1,696	212	2,724
Computer	21,777	3,439	1,073	96	139	78	61	126	1,488	18	499	6,647	1,534	1,271	263	10,157
Earth, atmospheric, and ocean	5,936	1,702	184	82	33	23	10	260	647	43	453	2,561	582	452	130	1,091
Mathematical	8,110	1,005	195	27	58	50	8	19	566	16	124	5,578	339	195	144	1,188
Physical	19,047	6,764	681	1,001	1,360	1,191	169	380	2,435	30	877	9,865	1,448	1,343	105	970
Psychology	9,321	1,079	70	1	514	458	56	12	109	1	372	3,843	396	377	19	4,003
Social	26,613	1,677	96	24	136	101	35	79	390	202	750	13,323	1,729	1,060	669	9,884
Engineering	61,381	13,676	3,809	1,075	908	798	110	1,100	4,214	193	2,377	21,763	8,874	7,953	921	17,068
Aerospace	2,469	892	378	30	4	4	0	316	91	0	73	740	306	265	41	531
Chemical	4,289	1,205	112	197	123	92	31	71	479	27	196	1,668	827	739	88	589
Civil	8,680	1,396	137	67	17	17	0	62	428	27	658	3,495	1,100	961	139	2,689
Electrical	20,771	4,198	1,700	125	113	85	28	282	1,352	9	617	6,592	2,896	2,679	217	7,085
Industrial	5,105	630	206	37	28	19	9	20	200	8	131	1,900	585	469	116	1,990
Mechanical	9,998	2,376	616	185	129	122	7	230	856	10	350	3,872	1,521	1,385	136	2,229
Metallurgical and materials	2,988	1,146	286	180	16	12	4	43	473	4	144	902	619	578	41	321
Other	7,081	1,833	374	254	478	447	31	76	335	108	208	2,594	1,020	877	143	1,634

DOD Department of Defense; DOE Department of Energy; HHS Department of Health and Human Services; NASA National Aeronautics and Space Administration; NIH National Institutes of Health

NSF National Science Foundation; USDA U.S. Department of Agriculture

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE E-1. Master's degrees, by field: 1994–2001

Field	1994	1995	1996	1997	1998	2000	2001
All fields	389,008	399,428	408,932	420,954	431,871	456,260	466,645
S&E	91,411	94,309	95,313	93,485	93,918	95,683	98,986
Sciences	62,694	65,679	67,552	67,611	67,780	69,947	72,463
Agricultural sciences	3,410	3,574	4,021	3,927	3,862	3,858	3,752
Biological sciences	5,276	5,495	6,286	6,594	6,368	6,325	6,487
Computer sciences	10,546	10,563	10,613	10,489	11,752	14,529	16,341
Earth, atmospheric, and ocean sciences	1,418	1,483	1,487	1,435	1,426	1,345	1,363
Atmospheric	197	203	199	177	199	156	140
Earth	1,073	1,142	1,146	1,145	1,105	1,104	1,121
Ocean	148	138	142	113	122	85	102
Mathematics and statistics	3,804	3,932	3,742	3,599	3,525	3,295	3,280
Physical sciences	4,263	4,241	4,364	4,141	3,969	3,512	3,737
Astronomy	129	119	115	93	101	102	93
Chemistry	2,010	2,105	2,273	2,268	2,173	1,908	2,009
Physics	1,952	1,826	1,686	1,497	1,401	1,244	1,376
Other	172	191	290	283	294	258	259
Psychology	11,572	13,132	13,043	13,633	13,146	13,708	14,335
Social sciences	22,405	23,259	23,996	23,793	23,732	23,375	23,168
Anthropology	989	1,053	1,051	1,111	1,098	950	1,092
Area and ethnic studies	1,597	1,584	1,657	1,587	1,550	1,529	1,515
Economics	2,989	2,838	2,964	2,804	2,843	2,515	2,492
History of science	16	13	10	18	22	24	26
Linguistics	650	603	601	642	568	553	552
Political science and public administration	12,041	12,802	13,370	13,368	13,151	13,035	12,929
Sociology	1,675	1,790	1,822	1,752	1,774	2,036	1,901
Other	2,448	2,576	2,521	2,511	2,726	2,733	2,661
Engineering	28,717	28,630	27,761	25,874	26,138	25,736	26,523
Aerospace	1,038	821	774	625	584	560	611
Chemical	1,287	1,369	1,416	1,345	1,372	1,352	1,368
Civil	4,918	5,168	5,002	4,880	4,736	4,140	4,013
Electrical	8,870	8,743	8,156	7,341	7,971	8,339	8,630
Mechanical	4,277	4,368	4,009	3,756	3,551	3,378	3,472
Materials	910	852	774	724	698	759	709
Industrial	2,882	2,873	3,027	2,935	3,109	3,048	3,401
Other	4,535	4,436	4,603	4,268	4,117	4,160	4,319
Non-S&E	297,597	305,119	313,619	327,469	337,953	360,577	367,659

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-2. Master's degrees awarded to women, by field: 1994–2001

Field	1994	1995	1996	1997	1998	2000	2001	1994	2001
	Number							Percent	
All fields	212,246	220,230	228,572	239,497	246,810	265,026	273,639	54.6	58.6
S&E	33,441	35,791	37,453	38,262	38,583	41,470	43,393	36.6	43.8
Sciences	29,018	31,159	32,701	33,567	33,420	36,130	37,765	46.3	52.1
Agricultural sciences	1,391	1,471	1,707	1,695	1,709	1,819	1,837	40.8	49.0
Biological sciences	2,780	2,858	3,341	3,518	3,354	3,510	3,755	52.7	57.9
Computer sciences	2,729	2,786	2,850	2,979	3,414	4,868	5,508	25.9	33.7
Earth, atmospheric, and ocean sciences	424	451	436	487	494	513	564	29.9	41.4
Atmospheric	47	51	35	42	52	37	40	23.9	28.6
Earth	328	353	347	393	397	434	472	30.6	42.1
Ocean	49	47	54	52	45	42	52	33.1	51.0
Mathematics and statistics	1,493	1,579	1,506	1,489	1,470	1,498	1,389	39.2	42.3
Physical sciences	1,233	1,283	1,450	1,333	1,440	1,215	1,301	28.9	34.8
Astronomy	31	31	27	32	30	25	36	24.0	38.7
Chemistry	827	885	998	927	998	823	825	41.1	41.1
Physics	297	291	301	255	255	244	286	15.2	20.8
Other	78	76	124	119	157	123	154	45.3	59.5
Psychology	8,285	9,397	9,373	9,918	9,540	10,293	10,858	71.6	75.7
Social sciences	10,683	11,334	12,038	12,148	11,999	12,414	12,553	47.7	54.2
Anthropology	610	668	631	712	686	587	689	61.7	63.1
Area and ethnic studies	819	818	856	845	842	879	896	51.3	59.1
Economics	959	894	1,002	953	944	952	973	32.1	39.0
History of science	7	4	4	7	7	6	10	43.8	38.5
Linguistics	418	416	393	418	389	407	380	64.3	68.8
Political science and public administration	5,624	6,124	6,654	6,691	6,566	6,720	6,841	46.7	52.9
Sociology	1,023	1,112	1,180	1,142	1,118	1,387	1,258	61.1	66.2
Other	1,223	1,298	1,318	1,380	1,447	1,476	1,506	50.0	56.6
Engineering	4,423	4,632	4,752	4,695	5,163	5,340	5,628	15.4	21.2
Aerospace	100	99	92	75	81	76	90	9.6	14.7
Chemical	279	306	306	332	344	344	352	21.7	25.7
Civil	953	1,045	1,064	1,099	1,154	1,075	1,061	19.4	26.4
Electrical	1,149	1,204	1,196	1,144	1,376	1,558	1,673	13.0	19.4
Mechanical	417	450	454	419	461	455	448	9.7	12.9
Materials	187	184	175	174	170	201	173	20.5	24.4
Industrial	536	512	624	604	676	648	789	18.6	23.2
Other	802	832	841	848	901	983	1,042	17.7	24.1
Non-S&E	178,805	184,439	191,119	201,235	208,227	223,556	230,246	60.1	62.6

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
All fields	389,008	399,428	408,932	420,954	431,871	456,260	466,645
S&E	86,080	94,309	95,313	93,485	93,918	95,683	98,986
Sciences	57,373	65,679	67,552	67,611	67,780	69,947	72,463
Agricultural sciences	3,435	3,574	4,021	3,927	3,862	3,858	3,752
Biological sciences	5,217	5,495	6,286	6,594	6,368	6,325	6,487
Computer sciences	10,421	10,563	10,613	10,489	11,752	14,529	16,341
Mathematics and statistics	4,108	3,932	3,742	3,599	3,525	3,295	3,280
Physical sciences	5,688	5,724	5,851	5,576	5,395	4,857	5,100
Psychology	12,274	13,132	13,043	13,633	13,146	13,708	14,335
Social sciences	16,230	23,259	23,996	23,793	23,732	23,375	23,168
Engineering	28,707	28,630	27,761	25,874	26,138	25,736	26,523
Non-S&E	302,928	305,119	313,619	327,469	337,953	360,577	367,659
U.S. citizen/permanent resident							
All fields	342,502	350,672	360,682	371,477	379,666	400,689	405,455
S&E	65,201	72,092	73,635	72,220	71,295	70,933	71,564
Sciences	45,851	53,161	54,870	54,982	54,318	55,020	56,042
Agricultural sciences	2,727	2,921	3,363	3,269	3,264	3,342	3,281
Biological sciences	4,284	4,610	5,295	5,671	5,468	5,575	5,614
Computer sciences	6,509	6,667	6,712	6,516	6,957	7,966	8,596
Mathematics and statistics	3,013	2,816	2,712	2,606	2,499	2,184	2,050
Physical sciences	3,918	3,972	4,117	3,932	3,898	3,522	3,689
Psychology	11,913	12,659	12,619	13,231	12,686	13,241	13,871
Social sciences	13,487	19,516	20,052	19,757	19,546	19,190	18,941
Engineering	19,350	18,931	18,765	17,238	16,977	15,913	15,522
Non-S&E	277,301	278,580	287,047	299,257	308,371	329,756	333,891
White							
All fields	273,913	277,437	282,713	288,353	291,962	297,226	293,390
S&E	50,711	54,610	55,349	53,769	52,328	49,850	48,792
Sciences	36,242	40,779	41,773	41,277	40,243	38,830	38,326
Agricultural sciences	2,261	2,447	2,918	2,809	2,827	2,864	2,782
Biological sciences	3,453	3,642	4,131	4,395	4,212	4,179	4,124
Computer sciences	4,286	4,354	4,353	4,105	4,277	4,435	4,541
Mathematics and statistics	2,379	2,222	2,083	2,005	1,895	1,655	1,515
Physical sciences	3,145	3,171	3,324	3,172	3,129	2,810	2,917
Psychology	9,960	10,367	10,071	10,444	9,820	9,646	9,798
Social sciences	10,758	14,576	14,893	14,347	14,083	13,241	12,649
Engineering	14,469	13,831	13,576	12,492	12,085	11,020	10,466
Non-S&E	223,202	222,827	227,364	234,584	239,634	247,376	244,598
Asian/Pacific Islander							
All fields	14,559	15,906	17,281	17,912	19,936	21,412	21,946
S&E	5,422	5,989	6,328	6,180	6,554	6,990	7,045
Sciences	2,979	3,417	3,707	3,861	4,103	4,611	4,631
Agricultural sciences	82	97	110	103	83	94	97
Biological sciences	332	426	528	575	591	595	540
Computer sciences	1,228	1,266	1,283	1,322	1,579	2,028	2,053
Mathematics and statistics	233	228	220	238	216	180	205
Physical sciences	284	288	304	308	278	262	248
Psychology	270	289	322	364	379	472	498
Social sciences	550	823	940	951	977	980	990
Engineering	2,443	2,572	2,621	2,319	2,451	2,379	2,414
Non-S&E	9,137	9,917	10,953	11,732	13,382	14,422	14,901
Black							
All fields	20,936	22,954	24,588	26,948	28,616	33,305	35,059
S&E	2,849	4,210	4,420	4,870	4,894	5,492	6,117

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Sciences	2,260	3,545	3,746	4,196	4,180	4,834	5,417
Agricultural sciences	78	74	88	96	95	84	96
Biological sciences	142	163	199	236	190	223	313
Computer sciences	365	373	435	411	424	580	654
Mathematics and statistics	109	140	145	154	142	98	113
Physical sciences	127	147	116	144	146	124	151
Psychology	636	802	870	1,059	1,020	1,346	1,598
Social sciences	803	1,846	1,893	2,096	2,163	2,379	2,492
Engineering	589	665	674	674	714	658	700
Non-S&E	18,087	18,744	20,168	22,078	23,722	27,813	28,942
Hispanic							
All fields	13,177	13,905	15,394	16,360	17,416	20,803	22,163
S&E	2,514	2,945	3,090	3,220	3,462	3,746	4,077
Sciences	1,795	2,234	2,342	2,455	2,655	2,894	3,239
Agricultural sciences	184	96	95	105	116	133	123
Biological sciences	138	167	194	214	192	268	310
Computer sciences	169	210	188	211	219	288	440
Mathematics and statistics	75	72	88	63	85	100	72
Physical sciences	114	129	127	139	149	126	147
Psychology	558	622	667	718	787	837	937
Social sciences	557	938	983	1,005	1,107	1,142	1,210
Engineering	719	711	748	765	807	852	838
Non-S&E	10,663	10,960	12,304	13,140	13,954	17,057	18,086
American Indian/Alaskan Native							
All fields	1,618	1,542	1,693	1,844	1,951	2,099	2,274
S&E	273	307	321	370	372	383	472
Sciences	213	264	265	317	318	319	412
Agricultural sciences	11	13	14	18	23	23	18
Biological sciences	17	20	17	25	21	26	29
Computer sciences	18	16	26	25	15	32	68
Mathematics and statistics	6	11	5	14	9	9	9
Physical sciences	16	19	10	16	24	18	20
Psychology	62	81	78	97	108	69	106
Social sciences	83	104	115	122	118	142	162
Engineering	60	43	56	53	54	64	60
Non-S&E	1,345	1,235	1,372	1,474	1,579	1,716	1,802
Other or unknown race/ethnicity							
All fields	18,299	18,928	19,013	20,060	19,785	25,844	30,623
S&E	3,432	4,031	4,127	3,811	3,685	4,472	5,061
Sciences	2,362	2,922	3,037	2,876	2,819	3,532	4,017
Agricultural sciences	111	194	138	138	120	144	165
Biological sciences	202	192	226	226	262	284	298
Computer sciences	443	448	427	442	443	603	840
Mathematics and statistics	211	143	171	132	152	142	136
Physical sciences	232	218	236	153	172	182	206
Psychology	427	498	611	549	572	871	934
Social sciences	736	1,229	1,228	1,236	1,098	1,306	1,438
Engineering	1,070	1,109	1,090	935	866	940	1,044
Non-S&E	14,867	14,897	14,886	16,249	16,100	21,372	25,562
Temporary resident							
All fields	46,506	48,756	48,250	49,477	52,205	55,571	61,190
S&E	20,879	22,217	21,678	21,265	22,623	24,750	27,422
Sciences	11,522	12,518	12,682	12,629	13,462	14,927	18,422
Agricultural sciences	708	653	658	658	598	516	471
Biological sciences	933	885	991	923	900	750	873
Computer sciences	3,912	3,896	3,901	3,973	4,795	6,563	7,745

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Mathematics and statistics	1,095	1,116	1,030	993	1,026	1,111	1,230
Physical sciences	1,770	1,752	1,734	1,644	1,497	1,335	1,411
Psychology	361	473	424	402	460	467	464
Social sciences	2,743	3,743	3,944	4,036	4,186	4,185	4,227
Engineering	9,357	9,699	8,996	8,636	9,161	9,823	11,001
Non-S&E	25,627	26,539	26,572	28,212	29,582	30,821	33,768

NOTES: Physical sciences includes earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.



TABLE E-4. Racial/ethnic distribution of S&amp;E master's degrees awarded to U.S. citizens and permanent residents, by field: 1994–2001

(Percent)							Page 1 of 2
Race/ethnicity and field	1994	1995	1996	1997	1998	2000	2001
<b>White</b>							
All fields	80.0	79.1	78.4	77.6	76.9	74.2	71.8
S&E	77.8	75.8	75.2	74.5	73.4	70.3	68.2
Sciences	79.0	76.7	76.1	75.1	74.1	70.6	68.4
Agricultural sciences	82.9	83.8	86.8	85.9	86.6	85.7	84.8
Biological sciences	80.6	79.0	78.0	77.5	77.0	75.0	73.5
Computer sciences	65.8	65.3	64.9	63.0	61.5	55.7	52.9
Mathematics and statistics	79.0	78.9	76.8	76.9	75.8	75.8	73.9
Physical sciences	80.3	79.8	80.7	80.7	80.3	79.8	79.1
Psychology	83.6	81.9	79.8	78.9	77.4	72.8	70.6
Social sciences	79.8	74.7	74.3	72.6	72.1	69.0	66.8
Engineering	74.8	73.1	72.3	72.5	71.2	69.3	67.4
Non-S&E	80.5	80.0	79.2	78.4	77.7	75.0	72.7
<b>Asian/Pacific Islander</b>							
All fields	4.3	4.5	4.8	4.8	5.3	5.3	5.5
S&E	8.3	8.3	8.6	8.6	9.2	9.9	9.8
Sciences	6.5	6.4	6.8	7.0	7.6	8.4	8.3
Agricultural sciences	3.0	3.3	3.3	3.2	2.5	2.8	3.0
Biological sciences	7.7	9.2	10.0	10.1	10.8	10.7	9.6
Computer sciences	18.9	19.0	19.1	20.3	22.7	25.5	23.8
Mathematics and statistics	7.7	8.1	8.1	9.1	8.6	8.2	10.1
Physical sciences	7.2	7.3	7.4	7.8	7.1	7.4	6.7
Psychology	2.3	2.3	2.6	2.8	3.0	3.6	3.6
Social sciences	4.1	4.2	4.7	4.8	5.0	5.1	5.2
Engineering	12.6	13.6	14.0	13.5	14.4	15.0	15.6
Non-S&E	3.3	3.6	3.8	3.9	4.3	4.4	4.5
<b>Black</b>							
All fields	6.1	6.5	6.8	7.3	7.5	8.3	8.9
S&E	4.4	5.8	6.0	6.7	6.9	7.7	8.5
Sciences	4.9	6.7	6.8	7.6	7.7	8.8	9.7
Agricultural sciences	2.9	2.5	2.6	2.9	2.9	2.5	2.9
Biological sciences	3.3	3.5	3.8	4.2	3.5	4.0	5.6
Computer sciences	5.6	5.6	6.5	6.3	6.1	7.3	7.6
Mathematics and statistics	3.6	5.0	5.3	5.9	5.7	4.5	5.5
Physical sciences	3.2	3.7	2.8	3.7	3.7	3.5	4.1
Psychology	5.3	6.3	6.9	8.0	8.0	10.2	11.5
Social sciences	6.0	9.5	9.4	10.6	11.1	12.4	13.2
Engineering	3.0	3.5	3.6	3.9	4.2	4.1	4.5
Non-S&E	6.5	6.7	7.0	7.4	7.7	8.4	9.0
<b>Hispanic</b>							
All fields	3.8	4.0	4.3	4.4	4.6	5.2	5.7
S&E	3.9	4.1	4.2	4.5	4.9	5.3	5.7
Sciences	3.9	4.2	4.3	4.5	4.9	5.3	5.8
Agricultural sciences	6.7	3.3	2.8	3.2	3.6	4.0	3.7
Biological sciences	3.2	3.6	3.7	3.8	3.5	4.8	5.5
Computer sciences	2.6	3.1	2.8	3.2	3.1	3.6	5.1
Mathematics and statistics	2.5	2.6	3.2	2.4	3.4	4.6	3.5
Physical sciences	2.9	3.2	3.1	3.5	3.8	3.6	4.0
Psychology	4.7	4.9	5.3	5.4	6.2	6.3	6.8
Social sciences	4.1	4.8	4.9	5.1	5.7	6.0	6.4
Engineering	3.7	3.8	4.0	4.4	4.8	5.4	5.4
Non-S&E	3.8	3.9	4.3	4.4	4.5	5.2	5.7

Table E-4. Racial/ethnic distribution of S&amp;E master's degree awarded to U.S. citizens and permanent residents, by field: 1994–2001

(Percent) Page 2 of 2

Race/ethnicity and field	1994	1995	1996	1997	1998	2000	2001
<b>American Indian/Alaskan Native</b>							
All fields	0.5	0.4	0.5	0.5	0.5	0.5	0.6
S&E	0.4	0.4	0.4	0.5	0.5	0.5	0.7
Sciences	0.5	0.5	0.5	0.6	0.6	0.6	0.7
Agricultural sciences	0.4	0.4	0.4	0.6	0.7	0.7	0.5
Biological sciences	0.4	0.4	0.3	0.4	0.4	0.5	0.5
Computer sciences	0.3	0.2	0.4	0.4	0.2	0.4	0.8
Mathematics and statistics	0.2	0.4	0.2	0.5	0.4	0.4	0.4
Physical sciences	0.4	0.5	0.2	0.4	0.6	0.5	0.5
Psychology	0.5	0.6	0.6	0.7	0.9	0.5	0.8
Social sciences	0.6	0.5	0.6	0.6	0.6	0.7	0.9
Engineering	0.3	0.2	0.3	0.3	0.3	0.4	0.4
Non-S&E	0.5	0.4	0.5	0.5	0.5	0.5	0.6
<b>Other or unknown race/ethnicity</b>							
All fields	5.3	5.4	5.3	5.4	5.2	6.4	7.4
S&E	5.3	5.6	5.6	5.3	5.2	6.3	7.1
Sciences	5.2	5.5	5.5	5.2	5.2	6.4	7.2
Agricultural sciences	4.1	6.6	4.1	4.2	3.7	4.3	5.0
Biological sciences	4.7	4.2	4.3	4.0	4.8	5.1	5.3
Computer sciences	6.8	6.7	6.4	6.8	6.4	7.6	9.8
Mathematics and statistics	7.0	5.1	6.3	5.1	6.1	6.5	6.7
Physical sciences	5.9	5.5	5.7	3.9	4.4	5.2	5.6
Psychology	3.6	3.9	4.8	4.1	4.5	6.6	6.7
Social sciences	5.5	6.3	6.1	6.3	5.6	6.8	7.6
Engineering	5.5	5.9	5.8	5.4	5.1	5.9	6.7
Non-S&E	5.4	5.3	5.2	5.4	5.2	6.5	7.5

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics: astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-5. Master's degrees awarded to females, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001	1994 2001	
								Number	Percent
All fields	212,246	220,230	228,572	239,497	246,810	265,026	273,639	54.6	58.6
S&E	30,619	35,791	37,453	38,262	38,583	41,470	43,393	35.6	43.8
Sciences	26,198	31,159	32,701	33,567	33,420	36,130	37,765	45.7	52.1
Agricultural sciences	1,395	1,471	1,707	1,695	1,709	1,819	1,837	40.6	49.0
Biology sciences	2,742	2,858	3,341	3,518	3,354	3,510	3,755	52.6	57.9
Computer sciences	2,694	2,786	2,850	2,979	3,414	4,868	5,508	25.9	33.7
Mathematics/statistics	1,567	1,579	1,506	1,489	1,470	1,498	1,389	38.1	42.3
Physical sciences	1,658	1,734	1,886	1,820	1,934	1,728	1,865	29.1	36.6
Psychology	8,857	9,397	9,373	9,918	9,540	10,293	10,858	72.2	75.7
Social sciences	7,285	11,334	12,038	12,148	11,999	12,414	12,553	44.9	54.2
Engineering	4,421	4,632	4,752	4,695	5,163	5,340	5,628	15.4	21.2
Non-S&E	181,627	184,439	191,119	201,235	208,227	223,556	230,246	60.0	62.6
U.S. citizen/permanent resident									
All fields	195,881	202,633	210,372	220,221	226,085	242,244	248,590	57.2	61.3
S&E	25,501	30,119	31,300	31,983	31,669	33,169	34,334	39.1	48.0
Sciences	22,291	26,822	27,940	28,737	28,229	29,856	30,961	48.6	55.2
Agricultural sciences	1,131	1,239	1,447	1,448	1,466	1,601	1,611	41.5	49.1
Biological sciences	2,271	2,426	2,810	3,010	2,850	3,051	3,248	53.0	57.9
Computer sciences	1,730	1,807	1,853	1,867	2,020	2,546	2,774	26.6	32.3
Mathematics/statistics	1,210	1,205	1,147	1,142	1,100	1,011	888	40.2	43.3
Physical sciences	1,124	1,202	1,338	1,315	1,415	1,288	1,388	28.7	37.6
Psychology	8,626	9,069	9,070	9,641	9,193	9,947	10,521	72.4	75.8
Social sciences	6,199	9,874	10,275	10,314	10,185	10,412	10,531	46.0	55.6
Engineering	3,210	3,297	3,360	3,246	3,440	3,313	3,373	16.6	21.7
Non-S&E	170,380	172,514	179,072	188,238	194,416	209,075	214,256	61.4	64.2
White									
All fields	157,155	160,782	165,154	170,411	173,498	179,311	179,684	57.4	61.2
S&E	19,865	22,680	23,175	23,213	22,717	22,749	22,792	39.2	46.7
Sciences	17,628	20,440	20,985	21,108	20,496	20,712	20,751	48.6	54.1
Agricultural sciences	921	1,017	1,238	1,211	1,251	1,350	1,328	40.7	47.7
Biological sciences	1,810	1,889	2,165	2,275	2,196	2,278	2,381	52.4	57.7
Computer sciences	977	1,033	1,015	965	1,027	1,162	1,163	22.8	25.6
Mathematics/statistics	959	942	864	860	815	753	652	40.3	43.0
Physical sciences	893	923	1,038	1,001	1,085	1,007	1,067	28.4	36.6
Psychology	7,190	7,405	7,181	7,557	7,049	7,240	7,343	72.2	74.9
Social sciences	4,878	7,231	7,484	7,239	7,073	6,922	6,817	45.3	53.9
Engineering	2,237	2,240	2,190	2,105	2,221	2,037	2,041	15.5	19.5
Non-S&E	137,290	138,102	141,979	147,198	150,781	156,562	156,892	61.5	64.1
Asian/Pacific Islander									
All fields	6,768	7,521	8,404	9,327	10,298	11,307	11,802	46.5	53.8
S&E	1,861	2,115	2,428	2,575	2,678	3,045	3,033	34.3	43.1
Sciences	1,350	1,566	1,807	2,014	2,050	2,385	2,406	45.3	52.0
Agricultural sciences	47	53	61	72	40	58	63	57.3	64.9
Biological sciences	181	210	286	324	294	304	305	54.5	56.5
Computer sciences	443	460	473	530	629	860	860	36.1	41.9
Mathematics/statistics	107	104	101	116	105	94	104	45.9	50.7
Physical sciences	102	101	136	140	128	108	106	35.9	42.7
Psychology	196	213	244	279	289	365	372	72.6	74.7
Social sciences	274	425	506	553	565	596	596	49.8	60.2
Engineering	511	549	621	561	628	660	627	20.9	26.0
Non-S&E	4,907	5,406	5,976	6,752	7,620	8,262	8,769	53.7	58.8
Black									
All fields	13,929	15,318	16,590	18,504	19,509	22,996	24,658	66.5	70.3
S&E	1,473	2,319	2,520	2,887	2,828	3,294	3,855	51.7	63.0

TABLE E-5. Master's degrees awarded to females, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001	1994	2001
	Number							Percent	
Sciences	1,306	2,118	2,310	2,662	2,584	3,087	3,609	57.8	66.6
Agricultural sciences	32	39	39	40	59	47	51	41.0	53.1
Biological sciences	94	113	122	167	122	150	221	66.2	70.6
Computer sciences	160	159	201	182	162	255	309	43.8	47.2
Mathematics/statistics	47	82	71	79	77	52	48	43.1	42.5
Physical sciences	53	61	57	70	65	59	69	41.7	45.7
Psychology	475	598	647	814	766	1,035	1,297	74.7	81.2
Social sciences	445	1,066	1,173	1,310	1,333	1,489	1,614	55.4	64.8
Engineering	167	201	210	225	244	207	246	28.4	35.1
Non-S&E	12,456	12,999	14,070	15,617	16,681	19,702	20,803	68.9	71.9
Hispanic									
All fields	7,694	8,180	9,322	9,894	10,568	12,799	13,925	58.4	62.8
S&E	1,087	1,333	1,426	1,502	1,667	1,836	2,119	43.2	52.0
Sciences	950	1,200	1,258	1,326	1,489	1,635	1,898	52.9	58.6
Agricultural sciences	79	40	40	54	58	74	74	42.9	60.2
Biological sciences	73	92	109	104	95	146	168	52.9	54.2
Computer sciences	49	51	51	59	77	89	156	29.0	35.5
Mathematics/statistics	31	22	33	17	39	41	32	41.3	44.4
Physical sciences	34	41	47	53	62	49	57	29.8	38.8
Psychology	417	454	495	518	578	607	701	74.7	74.8
Social sciences	267	500	483	521	580	629	710	47.9	58.7
Engineering	137	133	168	176	178	201	221	19.1	26.4
Non-S&E	6,607	6,847	7,896	8,392	8,901	10,963	11,806	62.0	65.3
American Indian/Alaskan Native									
All fields	964	919	1,028	1,147	1,212	1,321	1,446	59.6	63.6
S&E	112	150	154	174	190	190	255	41.0	54.0
Sciences	100	147	149	167	182	174	238	46.9	57.8
Agricultural sciences	3	3	8	8	8	5	7	27.3	38.9
Biological sciences	5	9	8	14	12	12	14	29.4	48.3
Computer sciences	6	5	7	9	3	10	29	33.3	42.6
Mathematics/statistics	1	6	1	6	6	4	3	16.7	33.3
Physical sciences	3	8	4	5	11	5	11	18.8	55.0
Psychology	43	51	56	63	76	54	77	69.4	72.6
Social sciences	39	65	65	62	66	84	97	47.0	59.9
Engineering	12	3	5	7	8	16	17	20.0	28.3
Non-S&E	852	769	874	973	1,022	1,131	1,191	63.3	66.1
Other or unknown race/ethnicity									
All fields	9,371	9,913	9,874	10,938	11,000	14,510	17,075	51.2	55.8
S&E	1,103	1,522	1,597	1,632	1,589	2,055	2,280	32.1	45.1
Sciences	957	1,351	1,431	1,460	1,428	1,863	2,059	40.5	51.3
Agricultural sciences	49	87	61	63	50	67	88	44.1	53.3
Biological sciences	108	113	120	126	131	161	159	53.5	53.4
Computer sciences	95	99	106	122	122	170	257	21.4	30.6
Mathematics/statistics	65	49	77	64	58	67	49	30.8	36.0
Physical sciences	39	68	56	46	64	60	78	16.8	37.9
Psychology	305	348	447	410	435	646	731	71.4	78.3
Social sciences	296	587	564	629	568	692	697	40.2	48.5
Engineering	146	171	166	172	161	192	221	13.6	21.2
Non-S&E	8,268	8,391	8,277	9,306	9,411	12,455	14,795	55.6	57.9
Temporary resident									
All fields	16,365	17,597	18,200	19,276	20,725	22,782	25,049	35.2	40.9
S&E	5,118	5,672	6,153	6,279	6,914	8,301	9,059	24.5	33.0
Sciences	3,907	4,337	4,761	4,830	5,191	6,274	6,804	33.9	41.4

TABLE E-5. Master's degrees awarded to females, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001	1994	2001
	Number							Percent	
Agricultural sciences	264	232	260	247	243	218	226	37.3	48.0
Biological sciences	471	432	531	508	504	459	507	50.5	58.1
Computer sciences	964	979	997	1,112	1,394	2,322	2,734	24.6	35.3
Mathematics/statistics	357	374	359	347	370	487	501	32.6	40.7
Physical sciences	534	532	548	505	519	440	477	30.2	33.8
Psychology	231	328	303	277	347	346	337	64.0	72.6
Social sciences	1,086	1,460	1,763	1,834	1,814	2,002	2,022	39.6	47.8
Engineering	1,211	1,335	1,392	1,449	1,723	2,027	2,255	12.9	20.5
Non-S&E	11,247	11,925	12,047	12,997	13,811	14,481	15,990	43.9	47.4

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-6. Master's degrees awarded to males, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
All fields	176,762	179,198	180,360	181,457	185,061	191,234	193,006
S&E	55,461	58,518	57,860	55,223	55,335	54,213	55,593
Sciences	31,175	34,520	34,851	34,044	34,360	33,817	34,698
Agricultural sciences	2,040	2,103	2,314	2,232	2,153	2,039	1,915
Biology sciences	2,475	2,637	2,945	3,076	3,014	2,815	2,732
Computer sciences	7,727	7,777	7,763	7,510	8,338	9,661	10,833
Mathematics/statistics	2,541	2,353	2,236	2,110	2,055	1,797	1,891
Physical sciences	4,030	3,990	3,965	3,756	3,461	3,129	3,235
Psychology	3,417	3,735	3,670	3,715	3,606	3,415	3,477
Social sciences	8,945	11,925	11,958	11,645	11,733	10,961	10,615
Engineering	24,286	23,998	23,009	21,179	20,975	20,396	20,895
Non-S&E	121,301	120,680	122,500	126,234	129,726	137,021	137,413
U.S. citizen/permanent resident							
All fields	146,621	148,039	150,310	151,256	153,581	158,445	156,865
S&E	39,700	41,973	42,335	40,237	39,626	37,764	37,230
Sciences	23,560	26,339	26,930	26,245	26,089	25,164	25,081
Agricultural sciences	1,596	1,682	1,916	1,821	1,798	1,741	1,670
Biological sciences	2,013	2,184	2,485	2,661	2,618	2,524	2,366
Computer sciences	4,779	4,860	4,859	4,649	4,937	5,420	5,822
Mathematics/statistics	1,803	1,611	1,565	1,464	1,399	1,173	1,162
Physical sciences	2,794	2,770	2,779	2,617	2,483	2,234	2,301
Psychology	3,287	3,590	3,549	3,590	3,493	3,294	3,350
Social sciences	7,288	9,642	9,777	9,443	9,361	8,778	8,410
Engineering	16,140	15,634	15,405	13,992	13,537	12,600	12,149
Non-S&E	106,921	106,066	107,975	111,019	113,955	120,681	119,635
White							
All fields	116,758	116,655	117,559	117,942	118,464	117,915	113,706
S&E	30,846	31,930	32,174	30,556	29,611	27,101	26,000
Sciences	18,614	20,339	20,788	20,169	19,747	18,118	17,575
Agricultural sciences	1,340	1,430	1,680	1,598	1,576	1,514	1,454
Biological sciences	1,643	1,753	1,966	2,120	2,016	1,901	1,743
Computer sciences	3,309	3,321	3,338	3,140	3,250	3,273	3,378
Mathematics/statistics	1,420	1,280	1,219	1,145	1,080	902	863
Physical sciences	2,252	2,248	2,286	2,171	2,044	1,803	1,850
Psychology	2,770	2,962	2,890	2,887	2,771	2,406	2,455
Social sciences	5,880	7,345	7,409	7,108	7,010	6,319	5,832
Engineering	12,232	11,591	11,386	10,387	9,864	8,983	8,425
Non-S&E	85,912	84,725	85,385	87,386	88,853	90,814	87,706
Asian/Pacific Islander							
All fields	7,791	8,385	8,877	8,585	9,638	10,105	10,144
S&E	3,561	3,874	3,900	3,605	3,876	3,945	4,012
Sciences	1,629	1,851	1,900	1,847	2,053	2,226	2,225
Agricultural sciences	35	44	49	31	43	36	34
Biological sciences	151	216	242	251	297	291	235
Computer sciences	785	806	810	792	950	1,168	1,193
Mathematics/statistics	126	124	119	122	111	86	101
Physical sciences	182	187	168	168	150	154	142
Psychology	74	76	78	85	90	107	126
Social sciences	276	398	434	398	412	384	394
Engineering	1,932	2,023	2,000	1,758	1,823	1,719	1,787
Non-S&E	4,230	4,511	4,977	4,980	5,762	6,160	6,132
Black							
All fields	7,007	7,636	7,998	8,444	9,107	10,309	10,401
S&E	1,376	1,891	1,900	1,983	2,066	2,198	2,262
Sciences	954	1,427	1,436	1,534	1,596	1,747	1,808

TABLE E-6. Master's degrees awarded to males, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Agricultural sciences	46	35	49	56	36	37	45
Biological sciences	48	50	77	69	68	73	92
Computer sciences	205	214	234	229	262	325	345
Mathematics/statistics	62	58	74	75	65	46	65
Physical sciences	74	86	59	74	81	65	82
Psychology	161	204	223	245	254	311	301
Social sciences	358	780	720	786	830	890	878
Engineering	422	464	464	449	470	451	454
Non-S&E	5,631	5,745	6,098	6,461	7,041	8,111	8,139
Hispanic							
All fields	5,483	5,725	6,072	6,466	6,848	8,004	8,238
S&E	1,427	1,612	1,664	1,718	1,795	1,910	1,958
Sciences	845	1,034	1,084	1,129	1,166	1,259	1,341
Agricultural sciences	105	56	55	51	58	59	49
Biological sciences	65	75	85	110	97	122	142
Computer sciences	120	159	137	152	142	199	284
Mathematics/statistics	44	50	55	46	46	59	40
Physical sciences	80	88	80	86	87	77	90
Psychology	141	168	172	200	209	230	236
Social sciences	290	438	500	484	527	513	500
Engineering	582	578	580	589	629	651	617
Non-S&E	4,056	4,113	4,408	4,748	5,053	6,094	6,280
American Indian/Alaskan Native							
All fields	654	623	665	697	739	778	828
S&E	161	157	167	196	182	193	217
Sciences	113	117	116	150	136	145	174
Agricultural sciences	8	10	6	10	15	18	11
Biological sciences	12	11	9	11	9	14	15
Computer sciences	12	11	19	16	12	22	39
Mathematics/statistics	5	5	4	8	3	5	6
Physical sciences	13	11	6	11	13	13	9
Psychology	19	30	22	34	32	15	29
Social sciences	44	39	50	60	52	58	65
Engineering	48	40	51	46	46	48	43
Non-S&E	493	466	498	501	557	585	611
Other or unknown race/ethnicity							
All fields	8,928	9,015	9,139	9,122	8,785	11,334	13,548
S&E	2,329	2,509	2,530	2,179	2,096	2,417	2,781
Sciences	1,405	1,571	1,606	1,416	1,391	1,669	1,958
Agricultural sciences	62	107	77	75	70	77	77
Biological sciences	94	79	106	100	131	123	139
Computer sciences	348	349	321	320	321	433	583
Mathematics/statistics	146	94	94	68	94	75	87
Physical sciences	193	150	180	107	108	122	128
Psychology	122	150	164	139	137	225	203
Social sciences	440	642	664	607	530	614	741
Engineering	924	938	924	763	705	748	823
Non-S&E	6,599	6,506	6,609	6,943	6,689	8,917	10,767
Temporary resident							
All fields	30,141	31,159	30,050	30,201	31,480	32,789	36,141
S&E	15,761	16,545	15,525	14,986	15,709	16,449	18,363
Sciences	7,615	8,181	7,921	7,799	8,271	8,653	9,617
Agricultural sciences	444	421	398	411	355	298	245
Biological sciences	462	453	460	415	396	291	366
Computer sciences	2,948	2,917	2,904	2,861	3,401	4,241	5,011

TABLE E-6. Master's degrees awarded to males, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	2000	2001
Mathematics/statistics	738	742	671	646	656	624	729
Physical sciences	1,236	1,220	1,186	1,139	978	895	934
Psychology	130	145	121	125	113	121	127
Social sciences	1,657	2,283	2,181	2,202	2,372	2,183	2,205
Engineering	8,146	8,364	7,604	7,187	7,438	7,796	8,746
Non-S&E	14,380	14,614	14,525	15,215	15,771	16,340	17,778

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.



TABLE F-1. S&amp;E doctoral degrees awarded, by field: 1994–2001

Field	1994	1995	1996	1997	1998	1999	2000	2001
All S&E fields	26,205	26,536	27,243	27,242	27,283	25,940	25,951	25,509
Sciences	20,383	20,528	20,934	21,124	21,356	20,608	20,631	20,007
Agricultural sciences	1,078	1,036	1,036	982	1,037	966	942	848
Biological sciences	5,203	5,375	5,724	5,789	5,846	5,583	5,849	5,678
Computer sciences	903	997	920	909	927	855	859	826
Earth, atmospheric, and ocean sciences	824	780	794	878	814	805	757	749
Atmospheric	129	130	125	149	125	124	143	116
Earth	509	454	452	489	504	452	386	394
Oceanography	125	115	134	144	112	130	134	119
Other geosciences	61	81	83	96	73	99	94	120
Mathematics and statistics	1,118	1,190	1,122	1,123	1,177	1,083	1,049	1,006
Physical sciences	3,977	3,841	3,838	3,769	3,825	3,579	3,408	3,389
Astronomy	144	173	192	198	207	159	185	186
Chemistry	2,257	2,162	2,148	2,148	2,216	2,132	1,989	1,979
Physics	1,548	1,479	1,485	1,401	1,378	1,271	1,205	1,193
Other	28	27	13	22	24	17	29	31
Psychology	3,379	3,430	3,497	3,562	3,676	3,673	3,618	3,433
Social sciences	3,901	3,879	4,003	4,112	4,054	4,064	4,149	4,078
Anthropology	418	410	418	469	459	489	482	448
Area and ethnic studies	122	121	143	94	114	109	127	144
Economics	1,101	1,152	1,177	1,163	1,156	1,075	1,085	1,084
History of science	27	41	37	36	43	50	42	40
Linguistics	221	201	230	244	220	251	229	229
Political science and public administration	930	895	928	975	959	1,016	986	982
Sociology	548	555	528	601	579	572	633	577
Other	534	504	542	530	524	502	565	574
Engineering	5,822	6,008	6,309	6,118	5,927	5,332	5,320	5,502
Aerospace	230	252	287	273	242	207	215	203
Chemical	725	708	798	767	776	674	725	726
Civil	684	656	698	656	650	584	555	593
Electrical	1,673	1,731	1,741	1,721	1,596	1,478	1,542	1,577
Mechanical	1,015	1,025	1,052	1,023	1,023	855	863	953
Materials	539	588	574	582	565	469	451	499
Industrial	228	284	259	246	229	212	176	205
Other	728	764	900	850	846	853	793	746

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-2. S&amp;E doctoral degrees awarded to women, by field: 1994–2001

Field	1994	1995	1996	1997	1998	1999	2000	2001	1994	2001
	Number								Percent	
All S&E fields	7,921	8,287	8,651	8,936	9,347	9,086	9,384	9,303	30.2	36.5
Sciences	7,286	7,591	7,874	8,186	8,573	8,297	8,547	8,378	35.7	41.9
Agricultural sciences	249	228	282	260	298	280	274	288	23.1	34.0
Biological sciences	2,109	2,217	2,415	2,495	2,536	2,394	2,618	2,545	40.5	44.8
Computer sciences	137	186	139	150	159	156	141	155	15.2	18.8
Earth, atmospheric, and ocean sciences	183	170	172	209	219	210	230	236	22.2	31.5
Atmospheric	26	23	22	25	30	22	33	28	20.2	24.1
Earth	95	91	88	119	127	112	109	115	18.7	29.2
Oceanography	38	28	39	38	32	45	46	45	30.4	37.8
Other	24	28	23	27	30	31	42	48	39.3	40.0
Mathematics and statistics	236	265	231	263	297	277	258	276	21.1	27.4
Physical sciences	828	878	842	852	926	831	835	834	20.8	24.6
Astronomy	25	30	41	37	45	33	40	41	17.4	22.0
Chemistry	625	661	605	613	695	632	624	628	27.7	31.7
Physics	175	182	193	193	177	160	163	155	11.3	13.0
Other	3	5	3	9	9	6	8	10	10.7	32.3
Psychology	2,101	2,181	2,331	2,365	2,455	2,453	2,410	2,296	62.2	66.9
Social sciences	1,443	1,466	1,462	1,592	1,683	1,696	1,781	1,748	37.0	42.9
Anthropology	225	237	225	261	262	275	276	262	53.8	58.5
Area and ethnic studies	65	65	76	52	63	59	67	95	53.3	66.0
Economics	249	279	263	266	312	291	293	306	22.6	28.2
History of science	10	17	10	13	19	18	17	8	37.0	20.0
Linguistics	134	102	113	135	123	148	134	136	60.6	59.4
Political science and public administration	282	266	305	298	364	356	365	328	30.3	33.4
Sociology	283	294	276	334	317	342	374	337	51.6	58.4
Other	195	206	194	233	223	207	255	276	36.5	48.1
Engineering	635	696	777	750	774	789	837	925	10.9	16.8
Aerospace	11	14	24	16	15	17	21	28	4.8	13.8
Chemical	113	109	143	122	140	123	151	180	15.6	24.8
Civil	80	76	79	80	100	89	88	111	11.7	18.7
Electrical	147	173	169	150	156	155	195	203	8.8	12.9
Mechanical	69	64	78	88	93	96	96	91	6.8	9.5
Materials	83	95	84	106	84	88	83	105	15.4	21.0
Industrial	33	50	51	40	40	43	35	44	14.5	21.5
Other	99	115	149	148	146	178	168	163	13.6	21.8

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-3. S&amp;E doctoral degrees awarded to men, by field: 1994–2001

Field	1994	1995	1996	1997	1998	1999	2000	2001
All S&E fields	18,165	18,117	18,454	18,089	17,816	16,737	16,512	16,162
Sciences	13,015	12,847	12,966	12,770	12,702	12,232	12,057	11,598
Agricultural sciences	827	804	754	715	738	682	668	555
Biological sciences	3,076	3,131	3,287	3,262	3,295	3,171	3,225	3,125
Computer sciences	762	808	775	743	765	692	716	668
Earth, atmospheric, and ocean sciences	635	608	614	663	592	591	522	512
Atmospheric	101	106	100	124	93	101	108	87
Earth	411	362	361	366	376	338	276	279
Oceanography	86	87	94	105	80	85	88	74
Other	37	53	59	68	43	67	50	72
Mathematics and statistics	879	919	881	851	872	803	790	730
Physical sciences	3,128	2,944	2,969	2,893	2,880	2,733	2,568	2,550
Astronomy	119	143	151	161	162	126	145	145
Chemistry	1,621	1,488	1,525	1,523	1,509	1,493	1,361	1,348
Physics	1,364	1,291	1,283	1,196	1,195	1,103	1,041	1,036
Other	24	22	10	13	14	11	21	21
Psychology	1,273	1,246	1,163	1,163	1,207	1,210	1,205	1,134
Social sciences	2,435	2,387	2,523	2,480	2,353	2,350	2,363	2,324
Anthropology	193	172	193	203	194	214	206	186
Area and ethnic studies	57	55	67	42	51	48	60	49
Economics	845	864	905	876	840	781	790	776
History of science	17	24	27	22	24	32	25	32
Linguistics	87	98	116	107	96	99	95	93
Political science and public administration	643	620	620	674	594	655	619	650
Sociology	261	258	247	265	260	228	258	240
Other	332	296	348	291	294	293	310	298
Engineering	5,150	5,270	5,488	5,319	5,114	4,505	4,455	4,564
Aerospace	219	237	262	254	226	189	192	174
Chemical	609	597	653	641	630	550	571	544
Civil	598	575	616	572	544	495	465	481
Electrical	1,516	1,545	1,556	1,561	1,429	1,310	1,335	1,372
Mechanical	940	954	963	929	923	751	766	859
Materials	452	489	483	470	477	376	367	393
Industrial	195	231	208	205	188	169	140	160
Other	621	642	747	687	697	665	619	581

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-4. Top 50 baccalaureate institutions of S&amp;E doctorate recipients, by sex: 1997–2001

Academic institution	Doctorates	Academic institution	Doctorates
Female, all institutions	46,056	Male, all institutions	85,316
Foreign	9,712	Foreign	28,866
Unknown	4,629	Unknown	9,115
Top 50 U.S.	11,302	Top 50 U.S.	19,394
University of California, Berkeley	567	University of California, Berkeley	1,045
Cornell University	482	Cornell University	799
University of Michigan–Ann Arbor	447	University of Illinois at Urbana-Champaign	772
University of California, Los Angeles	336	Massachusetts Institute of Technology	706
Harvard University	321	University of Michigan–Ann Arbor	632
University of Illinois at Urbana-Champaign	318	Pennsylvania State University, main campus	612
University of Wisconsin–Madison	313	University of Wisconsin–Madison	590
University of California, Davis	303	Harvard University	535
University of Texas at Austin	303	University of Texas at Austin	507
Pennsylvania State University, main campus	278	Brigham Young University	504
Stanford University	269	Purdue University	477
Massachusetts Institute of Technology	266	University of California, Davis	465
University of Pennsylvania	256	University of California, Los Angeles	458
University of California, San Diego	249	Texas A&M University, main campus	457
Texas A&M University, main campus	244	Virginia Polytechnic Institute and State University	423
Yale University	240	Stanford University	420
University of Virginia, main campus	234	University of Minnesota, Twin Cities	417
Michigan State University	233	University of Florida	387
Brown University	225	Princeton University	373
University of Minnesota, Twin Cities	222	University of California, San Diego	371
Duke University	220	Michigan State University	363
University of Washington–Seattle	214	University of Washington–Seattle	357
Rutgers, the State Univ of New Jersey–New Brunswick	207	University of Virginia, main campus	352
University of Florida	204	University of Colorado at Boulder	343
University of North Carolina at Chapel Hill	203	Ohio State University, main campus	342
University of California, Irvine	202	Yale University	335
University of Colorado at Boulder	195	Rutgers, the State Univ of New Jersey–New Brunswick	332
Wellesley College	195	University of Maryland, College Park	320
Purdue University, main campus	191	University of Pennsylvania	313
Ohio State University, main campus	185	California Institute of Technology	297
Princeton University	183	Brown University	294
University of Maryland, College Park	182	Georgia Institute of Technology, main campus	294
Northwestern University	179	North Carolina State University at Raleigh	294
University of California, Santa Cruz	174	Rensselaer Polytechnic Institute	286
University of Arizona	172	Duke University	283
Smith College	171	Iowa State University	283
Virginia Polytechnic Institute and State University	171	University of Arizona	282
University of Puerto Rico, Rio Piedras campus	169	University of Chicago	281
University of California, Santa Barbara	167	Carnegie Mellon University	252
University of Chicago	166	University of California, Santa Cruz	252
University of Massachusetts, Amherst	166	University of Massachusetts, Amherst	242
Indiana University, Bloomington	158	State University of New York at Buffalo	241
College of William and Mary	157	University of Notre Dame	241
Boston University	149	University of California, Santa Barbara	237
Washington University	146	Rice University	227
Bryn Mawr College	143	University of North Carolina at Chapel Hill	223
Tufts University	134	University of California, Irvine	222
State University of New York at Binghamton	132	Johns Hopkins University	219
University of Iowa	131	Northwestern University	219
Dartmouth College	130	Washington University	218
Other U.S.	20,413	Other U.S.	27,941

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2001

Race/ethnicity and citizenship	All fields	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E	
														Number
All races/ethnicities	40,744	25,509	20,007	848	5,678	826	749	1,006	3,389	3,433	4,078	5,502	15,235	
U.S. citizen	26,907	14,999	12,860	401	3,876	365	428	468	1,860	2,938	2,524	2,139	11,908	
Permanent resident	1,822	1,263	967	28	340	55	36	54	183	75	196	296	559	
Temporary resident	9,780	7,925	5,153	358	1,239	356	252	435	1,213	152	1,148	2,772	1,855	
White	25,354	14,905	12,506	455	3,499	409	488	600	2,013	2,535	2,507	2,399	10,449	
U.S. citizen	21,842	12,211	10,566	361	3,124	298	383	395	1,556	2,400	2,049	1,645	9,631	
Permanent resident	745	497	396	10	116	21	11	32	91	38	77	101	248	
Temporary resident	2,634	2,097	1,480	83	250	89	92	173	355	73	365	617	537	
Asian/Pacific Islander	8,140	6,540	4,179	205	1,394	291	159	267	951	188	724	2,361	1,600	
U.S. citizen	1,428	1,058	797	7	365	34	15	30	125	106	115	261	370	
Permanent resident	773	578	417	9	187	27	20	18	77	14	65	161	195	
Temporary resident	5,899	4,870	2,951	186	840	229	124	219	745	65	543	1,919	1,029	
Black	2,000	864	738	22	162	16	8	26	81	177	246	126	1,136	
U.S. citizen	1,604	625	543	8	121	13	5	17	45	169	165	82	979	
Permanent resident	117	71	61	4	15	2	0	2	9	5	24	10	46	
Temporary resident	265	164	131	10	25	1	3	7	26	2	57	33	101	
Hispanic	1,888	1,181	973	91	247	29	41	35	107	187	236	208	707	
U.S. citizen	1,119	581	508	14	149	6	11	14	61	159	94	73	538	
Permanent resident	143	88	70	5	15	2	4	1	4	15	24	18	55	
Temporary resident	613	503	386	71	82	21	26	20	41	7	118	117	110	
American Indian/Alaskan Native	164	84	70	0	15	1	0	2	12	19	21	14	80	
U.S. citizen	149	72	65	0	15	0	0	1	12	17	20	7	77	
Permanent resident	2	2	2	0	0	1	0	1	0	0	0	0	0	
Temporary resident	12	9	2	0	0	0	0	0	0	2	0	7	3	
Other/unknown race/ethnicity	3,198	1,935	1,541	75	361	80	53	76	225	327	344	394	1,263	
U.S. citizen	765	452	381	11	102	14	14	11	61	87	81	71	313	
Permanent resident	42	27	21	0	7	2	1	0	2	3	6	6	15	
Temporary resident	357	282	203	8	42	16	7	16	46	3	65	79	75	
	Percent distribution													
All doctorate recipients	100.0	62.6	13.5	2.1	13.9	2.0	1.8	2.5	8.3	8.4	10.0	13.5	37.4	
U.S. citizen	100.0	55.7	7.9	1.5	14.4	1.4	1.6	1.7	6.9	10.9	9.4	7.9	44.3	
Permanent resident	100.0	69.3	16.2	1.5	18.7	3.0	2.0	3.0	10.0	4.1	10.8	16.2	30.7	
Temporary resident	100.0	81.0	28.3	3.7	12.7	3.6	2.6	4.4	12.4	1.6	11.7	28.3	19.0	
White	100.0	58.8	9.5	1.8	13.8	1.6	1.9	2.4	7.9	10.0	9.9	9.5	41.2	
U.S. citizen	100.0	55.9	7.5	1.7	14.3	1.4	1.8	1.8	7.1	11.0	9.4	7.5	44.1	
Permanent resident	100.0	66.7	13.6	1.3	15.6	2.8	1.5	4.3	12.2	5.1	10.3	13.6	33.3	
Temporary resident	100.0	79.6	23.4	3.2	9.5	3.4	3.5	6.6	13.5	2.8	13.9	23.4	20.4	

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2001

Race/ethnicity and citizenship	All fields	All S&E	Sciences	Agric- cultural sciences	Bio- logical sciences	Computer sciences	Earth, atmo- spheric, and ocean sciences	Mathe- matics and statistics	Physical sciences	Psych- ology	Social sciences	Engi- neering	Non- S&E
Asian/Pacific Islander	100.0	80.3	29.0	2.5	17.1	3.6	2.0	3.3	11.7	2.3	8.9	29.0	19.7
U.S. citizen	100.0	74.1	18.3	0.5	25.6	2.4	1.1	2.1	8.8	7.4	8.1	18.3	25.9
Permanent resident	100.0	74.8	20.8	1.2	24.2	3.5	2.6	2.3	10.0	1.8	8.4	20.8	25.2
Temporary resident	100.0	82.6	32.5	3.2	14.2	3.9	2.1	3.7	12.6	1.1	9.2	32.5	17.4
Black	100.0	43.2	6.3	1.1	8.1	0.8	0.4	1.3	4.1	8.9	12.3	6.3	56.8
U.S. citizen	100.0	39.0	5.1	0.5	7.5	0.8	0.3	1.1	2.8	10.5	10.3	5.1	61.0
Permanent resident	100.0	60.7	8.5	3.4	12.8	1.7	0.0	1.7	7.7	4.3	20.5	8.5	39.3
Temporary resident	100.0	61.9	12.5	3.8	9.4	0.4	1.1	2.6	9.8	0.8	21.5	12.5	38.1
Hispanic	100.0	62.6	11.0	4.8	13.1	1.5	2.2	1.9	5.7	9.9	12.5	11.0	37.4
U.S. citizen	100.0	51.9	6.5	1.3	13.3	0.5	1.0	1.3	5.5	14.2	8.4	6.5	48.1
Permanent resident	100.0	61.5	12.6	3.5	10.5	1.4	2.8	0.7	2.8	10.5	16.8	12.6	38.5
Temporary resident	100.0	82.1	19.1	11.6	13.4	3.4	4.2	3.3	6.7	1.1	19.2	19.1	17.9
American Indian/Alaskan Native	100.0	51.2	8.5	0.0	9.1	0.6	0.0	1.2	7.3	11.6	12.8	8.5	48.8
U.S. citizen	100.0	48.3	4.7	0.0	10.1	0.0	0.0	0.7	8.1	11.4	13.4	4.7	51.7
Permanent resident	100.0	100.0	0.0	0.0	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Temporary resident	100.0	75.0	58.3	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	58.3	25.0
Other/unknown race/ethnicity	100.0	60.5	12.3	2.3	11.3	2.5	1.7	2.4	7.0	10.2	10.8	12.3	39.5
U.S. citizen	100.0	59.1	9.3	1.4	13.3	1.8	1.8	1.4	8.0	11.4	10.6	9.3	40.9
Permanent resident	100.0	64.3	14.3	0.0	16.7	4.8	2.4	0.0	4.8	7.1	14.3	14.3	35.7
Temporary resident	100.0	79.0	22.1	2.2	11.8	4.5	2.0	4.5	12.9	0.8	18.2	22.1	21.0

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

Field and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
All S&E fields	18,187	18,997	18,650	18,398	18,257	17,565	17,106	16,262
White	13,882	13,889	13,997	13,827	14,001	13,717	13,431	12,708
Asian/Pacific Islander	2,981	3,659	3,079	2,530	2,135	1,936	1,705	1,636
Black	499	550	573	615	646	714	711	696
Hispanic	548	573	626	659	754	721	728	669
American Indian/Alaskan Native	64	67	96	79	97	114	88	74
Other or unknown race/ethnicity	213	259	279	688	624	363	443	479
Sciences	15,134	15,655	15,261	15,066	15,211	14,677	14,537	13,827
White	11,862	11,797	11,734	11,540	11,831	11,607	11,545	10,962
Asian/Pacific Islander	2,116	2,627	2,183	1,823	1,581	1,424	1,266	1,214
Black	445	480	499	517	563	616	630	604
Hispanic	482	496	527	562	644	639	646	578
American Indian/Alaskan Native	58	58	82	62	84	102	80	67
Other/unknown	171	197	236	562	508	289	370	402
Agricultural sciences	616	598	576	550	543	494	502	429
White	487	473	443	411	417	398	414	371
Asian/Pacific Islander	72	78	80	63	47	46	30	16
Black	22	17	24	24	19	24	18	12
Hispanic	25	21	13	26	35	15	26	19
American Indian/Alaskan Native	1	2	6	5	9	1	4	0
Other or unknown race/ethnicity	9	7	10	21	16	10	10	11
Biological sciences	4,088	4,329	4,365	4,256	4,308	4,124	4,265	4,216
White	3,105	3,115	3,171	3,158	3,246	3,128	3,306	3,240
Asian/Pacific Islander	719	920	885	721	657	609	538	552
Black	78	107	98	112	111	116	118	136
Hispanic	131	127	131	146	168	175	173	164
American Indian/Alaskan Native	16	15	20	7	12	20	17	15
Other or unknown race/ethnicity	39	45	60	112	114	76	113	109
Computer sciences	543	616	514	520	561	492	457	420
White	401	450	356	361	412	356	335	319
Asian/Pacific Islander	116	137	111	107	90	87	76	61
Black	10	11	12	4	14	18	18	15
Hispanic	7	6	16	16	15	14	14	8
American Indian/Alaskan Native	1	0	4	1	4	1	1	1
Other or unknown race/ethnicity	8	12	15	31	26	16	13	16
Earth, atmospheric, ocean sciences	613	594	558	607	562	525	508	464
White	504	464	449	487	464	433	430	394
Asian/Pacific Islander	89	104	77	71	51	39	27	35
Black	6	3	4	8	8	14	7	5
Hispanic	8	13	19	16	16	21	18	15
American Indian/Alaskan Native	1	0	2	2	3	6	5	0
Other or unknown race/ethnicity	5	10	7	23	20	12	21	15
Atmospheric sciences	91	93	83	102	85	76	86	61
White	65	64	61	79	69	62	73	51
Asian/Pacific Islander	25	28	19	19	9	9	6	5
Black	1	0	0	0	2	2	1	0
Hispanic	0	0	1	1	1	3	2	1
American Indian/Alaskan Native	0	0	1	0	0	0	0	0
Other/unknown	0	1	1	3	4	0	4	4
Earth sciences	396	348	330	349	348	295	269	259
White	324	278	274	286	291	242	234	223
Asian/Pacific Islander	54	56	37	34	29	20	12	19
Black	4	0	2	5	3	6	1	2
Hispanic	8	7	12	10	9	11	8	7
American Indian/Alaskan Native	1	0	0	0	3	6	4	0

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

Field and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Other/unknown	5	7	5	14	13	10	10	8
Oceanography	82	85	92	87	81	87	97	73
White	74	67	71	68	67	71	86	62
Asian/Pacific Islander	8	14	14	8	6	6	3	4
Black	0	1	0	1	0	3	1	3
Hispanic	0	3	6	4	6	6	5	1
American Indian/Alaskan Native	0	0	0	2	0	0	0	0
Other or unknown race/ethnicity	0	0	1	4	2	1	2	3
Other	44	68	53	69	48	67	56	71
White	41	55	43	54	37	58	37	58
Asian/Pacific Islander	2	6	7	10	7	4	6	7
Black	1	2	2	2	3	3	4	0
Hispanic	0	3	0	1	0	1	3	6
American Indian/Alaskan Native	0	0	1	0	0	0	1	0
Other or unknown race/ethnicity	0	2	0	2	1	1	5	0
Mathematics and statistics	657	771	648	629	669	605	573	522
White	479	535	478	479	526	505	463	427
Asian/Pacific Islander	142	207	140	97	71	57	70	48
Black	11	5	8	7	16	12	14	19
Hispanic	13	15	11	20	27	15	15	15
American Indian/Alaskan Native	2	2	1	1	3	1	2	2
Other or unknown race/ethnicity	10	7	10	25	26	15	9	11
Physical sciences	2,789	2,841	2,570	2,497	2,455	2,277	2,092	2,043
White	2,024	1,924	1,884	1,883	1,915	1,839	1,691	1,647
Asian/Pacific Islander	598	749	501	400	331	253	203	202
Black	46	42	60	52	56	66	62	54
Hispanic	90	73	67	69	54	63	78	65
American Indian/Alaskan Native	6	7	6	10	10	9	9	12
Other or unknown race/ethnicity	25	46	52	83	89	47	49	63
Astronomy	112	141	149	158	147	117	139	123
White	97	111	131	132	120	109	115	103
Asian/Pacific Islander	10	22	12	8	13	3	13	6
Black	0	1	0	2	1	2	1	1
Hispanic	2	4	2	3	2	1	3	7
American Indian/Alaskan Native	0	0	0	1	1	1	1	1
Other or unknown race/ethnicity	3	3	4	12	10	1	6	5
Chemistry	1,616	1,624	1,462	1,439	1,467	1,406	1,241	1,229
White	1,179	1,112	1,061	1,078	1,129	1,090	988	974
Asian/Pacific Islander	331	415	295	234	206	183	121	125
Black	34	33	45	35	45	56	44	42
Hispanic	59	43	36	44	34	46	51	43
American Indian/Alaskan Native	4	5	4	6	7	5	7	11
Other or unknown race/ethnicity	9	16	21	42	46	26	30	34
Physics	1,044	1,059	949	883	823	742	692	676
White	735	687	683	658	650	629	571	555
Asian/Pacific Islander	254	311	193	157	111	67	68	71
Black	11	8	15	15	10	8	16	11
Hispanic	29	26	29	22	18	16	23	15
American Indian/Alaskan Native	2	2	2	2	2	3	1	0
Other or unknown race/ethnicity	13	25	27	29	32	19	13	24
Other	17	17	10	17	18	12	20	15
White	13	14	9	15	16	11	17	15
Asian/Pacific Islander	3	1	1	1	1	0	1	0
Black	1	0	0	0	0	0	1	0
Hispanic	0	0	0	0	0	0	1	0
American Indian/Alaskan Native	0	0	0	1	0	0	0	0



TABLE F-6. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

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Field and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Other or unknown race/ethnicity	0	2	0	0	1	1	0	0
Psychology	3,136	3,185	3,235	3,130	3,274	3,293	3,230	3,013
White	2,729	2,723	2,745	2,525	2,645	2,702	2,603	2,438
Asian/Pacific Islander	108	121	121	126	113	132	146	120
Black	124	149	152	151	158	172	190	174
Hispanic	133	146	173	171	208	215	211	174
American Indian/Alaskan Native	12	14	18	18	31	35	22	17
Other or unknown race/ethnicity	30	32	26	139	119	37	58	90
Social sciences	2,692	2,721	2,795	2,877	2,839	2,867	2,910	2,720
White	2,133	2,113	2,208	2,236	2,206	2,246	2,303	2,126
Asian/Pacific Islander	272	311	268	238	221	201	176	180
Black	148	146	141	159	181	194	203	189
Hispanic	75	95	97	98	121	121	111	118
American Indian/Alaskan Native	19	18	25	18	12	29	20	20
Other or unknown race/ethnicity	45	38	56	128	98	76	97	87
Anthropology	359	358	341	376	380	401	411	367
White	309	298	289	299	298	330	337	289
Asian/Pacific Islander	18	21	15	14	18	19	19	19
Black	13	6	6	12	10	15	21	13
Hispanic	7	19	13	16	21	12	13	20
American Indian/Alaskan Native	6	5	5	3	5	8	5	8
Other or unknown race/ethnicity	6	9	13	32	28	17	16	18
Area and ethnic studies	99	106	123	88	104	94	118	130
White	73	79	95	70	79	69	93	98
Asian/Pacific Islander	7	8	8	3	2	4	5	4
Black	10	11	9	9	17	13	11	17
Hispanic	3	2	3	1	4	3	5	5
American Indian/Alaskan Native	3	1	2	4	1	3	1	2
Other or unknown race/ethnicity	3	5	6	1	1	2	3	4
Economics	566	626	608	590	578	543	503	459
White	430	459	450	431	428	417	397	358
Asian/Pacific Islander	93	120	103	89	85	65	48	56
Black	23	25	22	22	23	28	22	12
Hispanic	15	14	20	25	26	21	22	18
American Indian/Alaskan Native	1	2	1	1	0	1	1	2
Other or unknown race/ethnicity	4	6	12	22	16	11	13	13
History of science	26	33	29	33	35	42	35	39
White	23	30	27	25	31	36	32	31
Asian/Pacific Islander	2	2	0	2	0	3	0	3
Black	1	0	1	3	0	1	1	1
Hispanic	0	1	1	0	1	0	1	2
American Indian/Alaskan Native	0	0	0	0	0	0	0	0
Other or unknown race/ethnicity	0	0	0	3	3	2	1	2
Linguistics	131	118	118	159	136	156	118	123
White	96	95	88	117	103	123	98	97
Asian/Pacific Islander	27	16	20	25	22	13	11	9
Black	0	1	4	3	4	4	1	6
Hispanic	8	5	4	7	6	13	4	4
American Indian/Alaskan Native	0	0	1	1	0	1	0	0
Other or unknown race/ethnicity	0	1	1	6	1	2	4	7
Political science and public administration	715	689	743	789	791	805	803	747
White	570	560	592	655	633	640	637	586
Asian/Pacific Islander	48	51	46	45	42	46	38	36
Black	52	49	59	37	55	59	61	71
Hispanic	24	21	29	19	35	31	28	21
American Indian/Alaskan Native	4	2	4	4	3	7	4	5

TABLE F-6. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

Field and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Other or unknown race/ethnicity	17	6	13	29	23	22	35	28
Sociology	420	429	424	461	442	459	514	469
White	332	328	328	346	345	346	382	349
Asian/Pacific Islander	38	50	44	29	23	30	32	30
Black	26	29	25	42	40	45	57	44
Hispanic	12	16	13	19	15	26	26	38
American Indian/Alaskan Native	4	1	7	4	3	4	6	2
Other or unknown race/ethnicity	8	5	7	21	16	8	11	6
Other	376	362	409	381	373	367	408	386
White	300	264	339	293	289	285	327	318
Asian/Pacific Islander	39	43	32	31	29	21	23	23
Black	23	25	15	31	32	29	29	25
Hispanic	6	17	14	11	13	15	12	10
American Indian/Alaskan Native	1	7	5	1	0	5	3	1
Other or unknown race/ethnicity	7	6	4	14	10	12	14	9
Engineering	3,053	3,342	3,389	3,332	3,046	2,888	2,569	2,435
White	2,020	2,092	2,263	2,287	2,170	2,110	1,886	1,746
Asian/Pacific Islander	865	1,032	896	707	554	512	439	422
Black	54	70	74	98	83	98	81	92
Hispanic	66	77	99	97	110	82	82	91
American Indian/Alaskan Native	6	9	14	17	13	12	8	7
Other or unknown race/ethnicity	42	62	43	126	116	74	73	77
Aerospace	130	153	184	168	152	112	127	102
White	100	119	149	137	126	97	107	79
Asian/Pacific Islander	23	24	28	16	12	13	11	12
Black	1	1	5	3	1	1	4	1
Hispanic	3	7	2	4	5	0	3	5
American Indian/Alaskan Native	1	0	0	0	0	0	0	0
Other or unknown race/ethnicity	2	2	0	8	8	1	2	5
Chemical	380	381	391	409	374	371	382	355
White	259	256	274	293	275	286	280	268
Asian/Pacific Islander	96	101	80	73	65	58	69	52
Black	8	3	12	16	3	11	8	17
Hispanic	7	13	19	7	13	7	18	7
American Indian/Alaskan Native	1	2	1	4	3	2	1	1
Other or unknown race/ethnicity	9	6	5	16	15	7	6	10
Civil	292	309	305	327	297	312	260	269
White	199	194	199	220	216	241	193	194
Asian/Pacific Islander	69	91	89	72	38	46	43	37
Black	8	11	8	10	10	6	6	11
Hispanic	14	11	6	12	16	12	9	9
American Indian/Alaskan Native	0	0	2	2	0	2	1	0
Other or unknown race/ethnicity	2	2	1	11	17	5	8	18
Electrical	899	971	929	940	804	765	647	561
White	548	590	589	579	523	510	442	370
Asian/Pacific Islander	303	322	276	256	205	172	141	133
Black	17	24	22	31	23	30	21	22
Hispanic	21	15	27	26	31	29	22	22
American Indian/Alaskan Native	1	1	2	5	3	1	0	1
Other or unknown race/ethnicity	9	19	13	43	19	23	21	13
Industrial	119	149	136	119	101	100	77	88
White	83	93	94	80	72	81	59	53
Asian/Pacific Islander	28	41	28	22	11	07	11	22
Black	6	8	3	9	8	7	4	6
Hispanic	1	4	6	5	7	4	0	3
American Indian/Alaskan Native	0	1	3	0	0	0	0	1

TABLE F-6. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

Field and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Other or unknown race/ethnicity	1	2	2	3	3	1	3	3
Materials	297	352	337	315	313	260	244	225
White	202	194	217	234	225	184	190	165
Asian/Pacific Islander	82	136	102	59	55	52	34	38
Black	3	6	3	4	10	7	5	6
Hispanic	4	7	6	10	8	8	8	9
American Indian/Alaskan Native	1	0	2	0	2	2	0	1
Other or unknown race/ethnicity	5	9	7	8	13	7	7	6
Mechanical	538	563	588	538	516	463	397	427
White	337	339	392	376	371	335	279	300
Asian/Pacific Islander	179	188	166	113	89	88	72	76
Black	7	13	10	12	14	12	18	17
Hispanic	8	8	13	15	19	9	12	21
American Indian/Alaskan Native	0	2	3	6	2	2	3	1
Other or unknown race/ethnicity	7	13	4	16	21	17	13	12
Other	398	464	519	516	489	505	435	408
White	292	307	349	368	362	376	336	317
Asian/Pacific Islander	85	129	127	96	79	76	58	52
Black	4	4	11	13	14	24	15	12
Hispanic	8	12	20	18	11	13	10	15
American Indian/Alaskan Native	2	3	1	0	3	3	3	2
Other/unknown	7	9	11	21	20	13	13	10

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-7. Top baccalaureate institutions of black S&amp;E doctorate recipients: 1997–2001

Academic institution	Doctorates
All institutions	4,367
Foreign	981
Unknown	253
Top 51 U.S.	1,325
Howard University	110
Spelman College	68
Hampton University	54
Morehouse College	48
Massachusetts Institute of Technology	39
Harvard University	37
North Carolina Agricultural and Technical State University	37
Southern University and A&M College	36
University of California, Berkeley	30
University of Maryland, College Park	30
University of Michigan–Ann Arbor	30
Stanford University	29
Xavier University of Louisiana	29
Jackson State University	28
North Carolina State University at Raleigh	28
Cornell University	27
University of Virginia, main campus	27
Tuskegee University	26
University of California, Los Angeles	26
Brown University	25
Florida Agricultural and Mechanical University	23
Alabama A&M University	22
City University of New York City College	22
Rutgers, the State University of New Jersey–New Brunswick	22
Temple University	22
Clark Atlanta University	21
North Carolina Central University	21
Princeton University	21
University of North Carolina at Chapel Hill	21
Wayne State University	21
Prairie View A&M University	20
Yale University	20
Tougaloo College	19
University of Illinois at Urbana-Champaign	19
Fisk University	18
Morgan State University	18
Northwestern University	18
University of South Carolina, Columbia	18
Michigan State University	17
University of Pennsylvania	16
University of Tennessee at Knoxville	16
Georgia Institute of Technology, main campus	15
Norfolk State University	15
Ohio State University, main campus	15
Tennessee State University	15
University of Georgia	15
University of Texas at Austin	15
Florida State University	14
State University of New York at Buffalo	14
Texas A&M University, main campus	14
University of California–Davis	14
Other U.S.	3,133

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-8. Top baccalaureate institutions of Hispanic S&amp;E doctorate recipients: 1997–2001

Academic institution	Doctorates
All institutions	5,827
Foreign	2,118
Unknown	662
Top 52 U.S.	1,704
University of Puerto Rico Rio, Piedras campus	270
University of Puerto Rico, Mayaguez campus	127
University of Texas at Austin	74
University of California, Berkeley	73
Massachusetts Institute of Technology	53
University of California, Los Angeles	52
Florida International University	50
Texas A&M University, main campus	50
University of Florida	50
Cornell University	45
Stanford University	42
University of Texas at El Paso	41
University of California, Irvine	39
University of Miami	38
University of California, Davis	37
University of California, San Diego	36
University of New Mexico	36
New Mexico State University	28
Rutgers, the State University of New Jersey–New Brunswick	27
University of California, Santa Cruz	25
University of Arizona	22
University of Illinois at Urbana-Champaign	22
Yale University	22
California State University, Los Angeles	21
University of California, Santa Barbara	20
University of Michigan–Ann Arbor	19
California State University, Long Beach	18
California State University, Northridge	18
Harvard University	18
San Diego State University	18
University of Maryland, College Park	17
University of Puerto Rico, Cayey University College	17
University of South Florida	17
University of Washington, Seattle campus	17
St. Mary's University	16
Trinity University	16
Brown University	15
Columbia University in the City of New York	14
University of Colorado at Boulder	14
University of Houston	14
Brigham Young University, main campus	13
California Institute of Technology	13
California State Polytechnic University, San Luis Obispo	13
California State Polytechnic University, Pomona	13
City University of New York, City College	13
Duke University	13
Georgia Institute of Technology, main campus	13
Princeton University	13
Purdue University, main campus	13
Rensselaer Polytechnic Institute	13
Swarthmore College	13
University of Pennsylvania	13
Other U.S.	1,343

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-9. Top baccalaureate institutions of American Indian/Alaskan Native S&amp;E doctorate recipients: 1997–2001

Academic institution	Doctorates
All institutions	463
Foreign	39
Unknown	23
Top 32 U.S.	134
University of California, Berkeley	12
University of Oklahoma, Norman campus	12
Cornell University	5
Oklahoma State University	5
University of Missouri–Columbia	5
University of Washington, Seattle campus	5
Brigham Young University, main campus	4
Massachusetts Institute of Technology	4
Northern Arizona University	4
San Jose State University	4
Southwest Missouri State University	4
University of California, Davis	4
University of California, Irvine	4
University of Central Oklahoma	4
University of Florida	4
University of Michigan–Ann Arbor	4
University of New Mexico	4
University of Texas at Austin	4
California State University, Fresno	3
Colorado College	3
Dartmouth College	3
Louisiana State University and A&M College	3
New Mexico State University	3
Purdue University, main campus	3
University of Alaska	3
University of California, San Diego	3
University of Maryland, College Park	3
University of Massachusetts, Amherst	3
University of North Dakota	3
University of Portland	3
University of Tulsa	3
University of West Florida	3
Other U.S.	267

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-10. Top baccalaureate institutions of Asian/Pacific Islander S&amp;E doctorate recipients: 1997–2001

Academic institution	Doctorates
All institutions	33,987
Foreign	25,899
Unknown	2,352
Top 50 U.S.	3,449
University of California, Berkeley	463
Massachusetts Institute of Technology	195
University of California, Los Angeles	184
Harvard University	162
Cornell University	160
University of California, Davis	117
University of California, Irvine	112
Stanford University	108
California Institute of Technology	99
University of Michigan–Ann Arbor	95
University of Illinois at Urbana–Champaign	91
University of Texas at Austin	91
University of California, San Diego	83
University of Washington, Seattle campus	76
Princeton University	73
Yale University	73
University of Pennsylvania	65
University of Chicago	62
University of Wisconsin–Madison	60
University of Minnesota, Twin Cities	58
University of Maryland, College Park	56
University of Hawaii at Manoa	51
Boston University	49
Purdue University, main campus	49
Brown University	48
Rutgers, the State University of New Jersey–New Brunswick	44
Northwestern University	42
University of Southern California	40
Iowa State University	38
University of Virginia, main campus	37
Johns Hopkins University	36
University of Rochester	36
Carnegie Mellon University	35
Columbia University in the City of New York	35
Washington University	34
Texas A&M University, main campus	33
University of Arizona	31
Pennsylvania State University, main campus	30
Rice University	29
Ohio State University, main campus	27
University of California, Santa Barbara	26
Duke University	25
Georgia Institute of Technology, main campus	25
Harvey Mudd College	25
Mount Holyoke College	25
Rensselaer Polytechnic Institute	25
State University of New York at Stony Brook, all campuses	25
Michigan State University	22
New York University	22
University of Colorado at Boulder	22
Other U.S.	2,287

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

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Field, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
All S&E fields	18,187	18,997	18,650	18,398	18,257	17,565	17,106	16,262
Female	6,494	6,913	6,967	6,990	7,170	7,071	7,123	6,867
Male	11,692	12,082	11,683	11,392	11,069	10,494	9,981	9,395
Unknown	1	2	0	16	18	0	2	0
White	13,882	13,889	13,997	13,827	14,001	13,717	13,431	12,708
Female	5,154	5,215	5,351	5,268	5,492	5,456	5,503	5,257
Male	8,728	8,674	8,646	8,557	8,509	8,261	7,928	7,451
Unknown	0	0	0	2	0	0	0	0
Asian/Pacific Islander	2,981	3,659	3,079	2,530	2,135	1,936	1,705	1,636
Female	817	1,111	974	889	760	717	678	686
Male	2,163	2,548	2,105	1,640	1,369	1,219	1,027	950
Unknown	1	0	0	1	6	0	0	0
Black	499	550	573	615	646	714	711	696
Female	216	263	251	285	351	367	392	373
Male	283	287	322	330	295	347	319	323
Hispanic	548	573	626	659	754	721	728	669
Female	230	232	273	266	326	362	348	332
Male	318	341	353	393	428	359	379	337
Unknown	0	0	0	0	0	0	1	0
American Indian/Alaskan Native	64	67	96	79	97	114	88	74
Female	24	25	35	34	42	55	45	32
Male	40	42	61	45	55	59	43	42
Other or unknown race/ethnicity	213	259	279	688	624	363	443	479
Female	53	67	83	248	199	114	157	187
Male	160	190	196	427	413	249	285	292
Unknown	0	2	0	13	12	0	1	0
Sciences	15,134	15,655	15,261	15,066	15,211	14,677	14,537	13,827
Female	6,046	6,393	6,441	6,478	6,718	6,579	6,633	6,393
Male	9,088	9,260	8,820	8,573	8,481	8,098	7,902	7,434
Unknown	0	2	0	15	12	0	2	0
White	11,862	11,797	11,734	11,540	11,831	11,607	11,545	10,962
Female	4,849	4,894	5,003	4,936	5,185	5,104	5,170	4,940
Male	7,013	6,903	6,731	6,602	6,646	6,503	6,375	6,022
Unknown	0	0	0	2	0	0	0	0
Asian/Pacific Islander	2,116	2,627	2,183	1,823	1,581	1,424	1,266	1,214
Female	698	941	840	770	663	633	569	590
Male	1,418	1,686	1,343	1,052	915	791	697	624
Unknown	0	0	0	1	3	0	0	0
Black	445	480	499	517	563	616	630	604
Female	203	248	232	262	329	343	368	348
Male	242	232	267	255	234	273	262	256
Hispanic	482	496	527	562	644	639	646	578
Female	224	221	258	243	313	339	335	310
Male	258	275	269	319	331	300	310	268
Unknown	0	0	0	0	0	0	1	0
American Indian/Alaskan Native	58	58	82	62	84	102	80	67
Female	22	25	33	31	38	53	41	30
Male	36	33	49	31	46	49	39	37
Other or unknown race/ethnicity	171	197	236	562	508	289	370	402
Female	50	64	75	236	190	107	150	175
Male	121	131	161	314	309	182	219	227
Unknown	0	2	0	12	9	0	1	0
Agricultural sciences	616	598	576	550	543	494	502	429
Female	160	135	175	155	183	161	166	164
Male	456	463	401	394	360	333	336	265



TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

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Field, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Unknown	0	0	0	1	0	0	0	0
White	487	473	443	411	417	398	414	371
Female	120	104	136	118	140	125	136	135
Male	367	369	307	293	277	273	278	236
Asian/Pacific Islander	72	78	80	63	47	46	30	16
Female	20	16	29	18	18	18	9	9
Male	52	62	51	45	29	28	21	7
Black	22	17	24	24	19	24	18	12
Female	6	6	0	6	4	8	8	6
Male	16	11	24	18	15	16	10	6
Hispanic	25	21	13	26	35	15	26	19
Female	12	5	4	7	13	7	11	9
Male	13	16	9	19	22	8	15	10
American Indian/Alaskan Native	1	2	6	5	9	1	4	0
Female	0	0	4	0	2	0	1	0
Male	1	2	2	5	7	1	3	0
Other or unknown race/ethnicity	9	7	10	21	16	10	10	11
Female	2	4	2	6	6	3	1	5
Male	7	3	8	14	10	7	9	6
Unknown	0	0	0	1	0	0	0	0
Biological sciences	4,088	4,329	4,365	4,256	4,308	4,124	4,265	4,216
Female	1,743	1,859	1,941	1,920	1,921	1,864	1,984	1,958
Male	2,345	2,469	2,424	2,333	2,385	2,260	2,281	2,258
Unknown	0	1	0	3	2	0	0	0
White	3,105	3,115	3,171	3,158	3,246	3,128	3,306	3,240
Female	1,347	1,345	1,399	1,398	1,436	1,402	1,508	1,480
Male	1,758	1,770	1,772	1,759	1,810	1,726	1,798	1,760
Unknown	0	0	0	1	0	0	0	0
Asian/Pacific Islander	719	920	885	721	657	609	538	552
Female	268	409	403	348	291	277	262	269
Male	451	511	482	373	365	332	276	283
Unknown	0	0	0	0	1	0	0	0
Black	78	107	98	112	111	116	118	136
Female	45	43	40	60	70	66	74	82
Male	33	64	58	52	41	50	44	54
Hispanic	131	127	131	146	168	175	173	164
Female	62	47	66	63	79	76	91	76
Male	69	80	65	83	89	99	82	88
American Indian/Alaskan Native	16	15	20	7	12	20	17	15
Female	5	5	9	3	6	10	7	7
Male	11	10	11	4	6	10	10	8
Other or unknown race/ethnicity	39	45	60	112	114	76	113	109
Female	16	10	24	48	39	33	42	44
Male	23	34	36	62	74	43	71	65
Unknown	0	1	0	2	1	0	0	0
Computer sciences	543	616	514	520	561	492	457	420
Female	94	143	91	100	123	105	86	98
Male	449	473	423	419	437	387	371	322
Unknown	0	0	0	1	1	0	0	0
White	401	450	356	361	412	356	335	319
Female	75	103	61	66	84	71	62	60
Male	326	347	295	295	328	285	273	259
Asian/Pacific Islander	116	137	111	107	90	87	76	61
Female	16	30	16	26	23	19	15	20
Male	100	107	95	81	67	68	61	41
Black	10	11	12	4	14	18	18	15

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

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Field, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Female	2	4	3	1	8	9	5	10
Male	8	7	9	3	6	9	13	5
Hispanic	7	6	16	16	15	14	14	8
Female	0	4	7	2	1	3	3	4
Male	7	2	9	14	14	11	11	4
American Indian/Alaskan Native	1	0	4	1	4	1	1	1
Female	1	0	2	1	0	1	0	0
Male	0	0	2	0	4	0	1	1
Other or unknown race/ethnicity	8	12	15	31	26	16	13	16
Female	0	2	2	4	7	2	1	4
Male	8	10	13	26	18	14	12	12
Unknown	0	0	0	1	1	0	0	0
Earth, atmospheric, and ocean sciences	613	594	558	607	562	525	508	464
Female	144	144	130	164	171	152	167	162
Male	469	450	428	442	391	373	341	302
Unknown	0	0	0	1	0	0	0	0
White	504	464	449	487	464	433	430	394
Female	123	108	109	129	140	126	140	139
Male	381	356	340	357	324	307	290	255
Unknown	0	0	0	1	0	0	0	0
Asian/Pacific Islander	89	104	77	71	51	39	27	35
Female	17	28	12	19	19	11	11	10
Male	72	76	65	52	32	28	16	25
Black	6	3	4	8	8	14	7	5
Female	1	0	2	1	2	5	4	2
Male	5	3	2	7	6	9	3	3
Hispanic	8	13	19	16	16	21	18	15
Female	2	6	6	5	6	4	3	9
Male	6	7	13	11	10	17	15	6
American Indian/Alaskan Native	1	0	2	2	3	6	5	0
Female	0	0	0	1	1	3	1	0
Male	1	0	2	1	2	3	4	0
Other or unknown race/ethnicity	5	10	7	23	20	12	21	15
Female	1	2	1	9	3	3	8	2
Male	4	8	6	14	17	9	13	13
Mathematics and statistics	657	771	648	629	669	605	573	522
Female	151	183	145	177	198	192	163	153
Male	506	588	503	452	470	413	409	369
Unknown	0	0	0	0	1	0	1	0
White	479	535	478	479	526	505	463	427
Female	118	126	105	135	150	158	125	119
Male	361	409	373	344	376	347	338	308
Asian/Pacific Islander	142	207	140	97	71	57	70	48
Female	26	49	36	28	27	21	21	16
Male	116	158	104	69	44	36	49	32
Black	11	5	8	7	16	12	14	19
Female	3	1	2	2	7	6	7	7
Male	8	4	6	5	9	6	7	12
Hispanic	13	15	11	20	27	15	15	15
Female	3	4	0	6	7	5	7	5
Male	10	11	11	14	20	10	8	10
American Indian/Alaskan Native	2	2	1	1	3	1	2	2
Female	0	1	0	0	2	0	1	1
Male	2	1	1	1	1	1	1	1
Other or unknown race/ethnicity	10	7	10	25	26	15	9	11
Female	1	2	2	6	5	2	2	5

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

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Field, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Male	9	5	8	19	20	13	6	6
Unknown	0	0	0	0	1	0	1	0
Physical sciences	2,789	2,841	2,570	2,497	2,455	2,277	2,092	2,043
Female	625	708	610	587	604	553	546	526
Male	2,164	2,132	1,960	1,909	1,849	1,724	1,546	1,517
Unknown	0	1	0	1	2	0	0	0
White	2,024	1,924	1,884	1,883	1,915	1,839	1,691	1,647
Female	408	448	430	412	449	396	419	394
Male	1,616	1,476	1,454	1,471	1,466	1,443	1,272	1,253
Asian/Pacific Islander	598	749	501	400	331	253	203	202
Female	177	210	145	132	101	93	71	74
Male	421	539	356	267	228	160	132	128
Unknown	0	0	0	1	2	0	0	0
Black	46	42	60	52	56	66	62	54
Female	13	18	13	11	31	29	21	20
Male	33	24	47	41	25	37	41	34
Hispanic	90	73	67	69	54	63	78	65
Female	21	21	12	15	11	22	25	22
Male	69	52	55	54	43	41	53	43
American Indian/Alaskan Native	6	7	6	10	10	9	9	12
Female	1	2	1	0	1	3	2	2
Male	5	5	5	10	9	6	7	10
Other or unknown race/ethnicity	25	46	52	83	89	47	49	63
Female	5	9	9	17	11	10	8	14
Male	20	36	43	66	78	37	41	49
Unknown	0	1	0	0	0	0	0	0
Psychology	3,136	3,185	3,235	3,130	3,274	3,293	3,230	3,013
Female	1,967	2,057	2,186	2,108	2,211	2,229	2,177	2,035
Male	1,169	1,128	1,049	1,015	1,058	1,064	1,052	978
Unknown	0	0	0	7	5	0	1	0
White	2,729	2,723	2,745	2,525	2,645	2,702	2,603	2,438
Female	1,701	1,742	1,836	1,692	1,763	1,789	1,723	1,617
Male	1,028	981	909	833	882	913	880	821
Asian/Pacific Islander	108	121	121	126	113	132	146	120
Female	76	78	90	95	84	98	99	91
Male	32	43	31	31	29	34	47	29
Black	124	149	152	151	158	172	190	174
Female	78	110	114	110	115	135	145	124
Male	46	39	38	41	43	37	45	50
Hispanic	133	146	173	171	208	215	211	174
Female	90	97	120	107	152	158	151	128
Male	43	49	53	64	56	57	59	46
Unknown	0	0	0	0	0	0	1	0
American Indian/Alaskan Native	12	14	18	18	31	35	22	17
Female	7	8	9	12	18	23	19	12
Male	5	6	9	6	13	12	3	5
Other or unknown race/ethnicity	30	32	26	139	119	37	58	90
Female	15	22	17	92	79	26	40	63
Male	15	10	9	40	35	11	18	27
Unknown	0	0	0	7	5	0	0	0
Social sciences	2,692	2,721	2,795	2,877	2,839	2,867	2,910	2,720
Female	1,162	1,164	1,163	1,267	1,307	1,323	1,344	1,297
Male	1,530	1,557	1,632	1,609	1,531	1,544	1,566	1,423
Unknown	0	0	0	1	1	0	0	0
White	2,133	2,113	2,208	2,236	2,206	2,246	2,303	2,126
Female	957	918	927	986	1,023	1,037	1,057	996

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

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Field, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Male	1,176	1,195	1,281	1,250	1,183	1,209	1,246	1,130
Asian/Pacific Islander	272	311	268	238	221	201	176	180
Female	98	121	109	104	100	96	81	101
Male	174	190	159	134	121	105	95	79
Black	148	146	141	159	181	194	203	189
Female	55	66	58	71	92	85	104	97
Male	93	80	83	88	89	109	99	92
Hispanic	75	95	97	98	121	121	111	118
Female	34	37	43	38	44	64	44	57
Male	41	58	54	60	77	57	67	61
American Indian/Alaskan Native	19	18	25	18	12	29	20	20
Female	8	9	8	14	8	13	10	8
Male	11	9	17	4	4	16	10	12
Other or unknown race/ethnicity	45	38	56	128	98	76	97	87
Female	10	13	18	54	40	28	48	38
Male	35	25	38	73	57	48	49	49
Unknown	0	0	0	1	1	0	0	0
Engineering	3,053	3,342	3,389	3,332	3,046	2,888	2,569	2,435
Female	448	520	526	512	452	492	490	474
Male	2,604	2,822	2,863	2,819	2,588	2,396	2,079	1,961
Unknown	1	0	0	1	6	0	0	0
White	2,020	2,092	2,263	2,287	2,170	2,110	1,886	1,746
Female	305	321	348	332	307	352	333	317
Male	1,715	1,771	1,915	1,955	1,863	1,758	1,553	1,429
Asian/Pacific Islander	865	1,032	896	707	554	512	439	422
Female	119	170	134	119	97	84	109	96
Male	745	862	762	588	454	428	330	326
Unknown	1	0	0	0	3	0	0	0
Black	54	70	74	98	83	98	81	92
Female	13	15	19	23	22	24	24	25
Male	41	55	55	75	61	74	57	67
Hispanic	66	77	99	97	110	82	82	91
Female	6	11	15	23	13	23	13	22
Male	60	66	84	74	97	59	69	69
American Indian/Alaskan Native	6	9	14	17	13	12	8	7
Female	2	0	2	3	4	2	4	2
Male	4	9	12	14	9	10	4	5
Other or unknown race/ethnicity	42	62	43	126	116	74	73	77
Female	3	3	8	12	9	7	7	12
Male	39	59	35	113	104	67	66	65
Unknown	0	0	0	1	3	0	0	0

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2001  
(Percent distribution)

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Sex, race/ethnicity, and field	All U.S. citizen/ permanent resident	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other or unknown race/ethnicity
	Female (number)	6,867	5,257	686	373	332	32
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sciences							
Agricultural sciences	2.4	2.6	1.3	1.6	2.7	0.0	2.7
Biological sciences	28.5	28.2	39.2	22.0	22.9	21.9	23.5
Computer sciences	1.4	1.1	2.9	2.7	1.2	0.0	2.1
Earth, atmospheric, and ocean sciences	2.4	2.6	1.5	0.5	2.7	0.0	1.1
Atmospheric	0.2	0.2	0.3	0.0	0.0	0.0	0.0
Earth	1.3	1.5	0.6	0.0	1.2	0.0	0.5
Ocean	0.4	0.5	0.1	0.5	0.3	0.0	0.5
Other	0.4	0.4	0.4	0.0	1.2	0.0	0.0
Mathematics/statistics	2.2	2.3	2.3	1.9	1.5	3.1	2.7
Physical sciences	7.7	7.5	10.8	5.4	6.6	6.3	7.5
Astronomy	0.4	0.5	0.0	0.0	0.3	0.0	0.5
Chemistry	5.9	5.6	8.9	5.1	5.1	6.3	6.4
Physics	1.3	1.3	1.9	0.3	1.2	0.0	0.5
Other	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Psychology	29.6	30.8	13.3	33.2	38.6	37.5	33.7
Social sciences	18.9	18.9	14.7	26.0	17.2	25.0	20.3
Anthropology	3.2	3.2	2.2	2.4	4.2	6.3	5.9
Area/ethnic studies	1.2	1.2	0.3	3.5	1.2	3.1	2.1
Economics	2.2	2.2	3.8	0.5	1.5	3.1	3.2
History of science	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Linguistics	1.1	1.1	0.9	1.3	0.9	0.0	2.7
Political science/public administration	4.0	4.0	3.1	7.5	2.1	6.3	3.2
Sociology	4.2	4.2	2.6	7.0	5.7	3.1	1.1
Other	2.9	3.0	1.7	3.8	1.5	3.1	2.1
Engineering	6.9	6.0	14.0	6.7	6.6	6.3	6.4
Aerospace	0.3	0.3	0.6	0.0	0.0	0.0	0.5
Chemical	1.3	1.1	2.8	2.7	1.5	0.0	0.0
Civil	1.0	1.0	1.3	0.0	0.6	0.0	2.1
Electrical	1.0	0.7	4.1	0.3	0.9	0.0	0.0
Industrial	0.4	0.3	0.9	0.8	0.6	0.0	0.0
Materials	0.8	0.7	1.3	1.1	1.5	0.0	0.5
Mechanical	0.6	0.5	1.2	0.3	0.0	0.0	1.1
Other	1.6	1.5	1.9	1.6	1.5	6.3	2.1
Male (number)	9,395	7,451	950	323	337	42	292
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sciences							
Agricultural sciences	2.8	3.2	0.7	1.9	3.0	0.0	2.1
Biological sciences	24.0	23.6	29.8	16.7	26.1	19.0	22.3
Computer sciences	3.4	3.5	4.3	1.5	1.2	2.4	4.1
Earth, atmospheric, and ocean sciences	3.2	3.4	2.6	0.9	1.8	0.0	4.5
Atmospheric	0.5	0.5	0.3	0.0	0.3	0.0	1.4
Earth	1.8	1.9	1.6	0.6	0.9	0.0	2.4
Ocean	0.5	0.5	0.3	0.3	0.0	0.0	0.7
Other	0.5	0.5	0.4	0.0	0.6	0.0	0.0
Mathematics/statistics	3.9	4.1	3.4	3.7	3.0	2.4	2.1
Physical sciences	16.1	16.8	13.5	10.5	12.8	23.8	16.8
Astronomy	1.0	1.0	0.6	0.3	1.8	2.4	1.4
Chemistry	8.7	9.1	6.7	7.1	7.7	21.4	7.5
Physics	6.3	6.5	6.1	3.1	3.3	0.0	7.9

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2001  
(Percent distribution)

Sex, race/ethnicity, and field	All U.S. citizen/ permanent resident	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other or unknown race/ethnicity
	Other	0.1	0.2	0.0	0.0	0.0	0.0
Psychology	10.4	11.0	3.1	15.5	13.6	11.9	9.2
Social sciences	15.1	15.2	8.3	28.5	18.1	28.6	16.8
Anthropology	1.6	1.7	0.4	1.2	1.8	14.3	2.4
Area/ethnic studies	0.5	0.5	0.2	1.2	0.3	2.4	0.0
Economics	3.2	3.3	3.2	3.1	3.9	2.4	2.4
History of science	0.3	0.3	0.2	0.3	0.6	0.0	0.7
Linguistics	0.5	0.6	0.3	0.3	0.3	0.0	0.7
Political science/public administration	5.0	5.0	1.6	13.3	4.2	7.1	7.5
Sociology	1.9	1.7	1.3	5.6	5.6	2.4	1.4
Other	2.0	2.1	1.2	3.4	1.5	0.0	1.7
Engineering	20.9	19.2	34.3	20.7	20.5	11.9	22.3
Aerospace	0.9	0.9	0.8	0.3	1.5	0.0	1.4
Chemical	2.8	2.8	3.5	2.2	0.6	2.4	3.4
Civil	2.2	1.9	2.9	3.4	2.1	0.0	4.8
Electrical	5.3	4.5	11.1	6.5	5.6	2.4	4.5
Industrial	0.6	0.5	1.7	0.9	0.3	2.4	1.0
Materials	1.8	1.7	3.1	0.6	1.2	2.4	1.7
Mechanical	4.1	3.7	7.2	5.0	6.2	2.4	3.4
Other	3.2	3.2	4.1	1.9	3.0	0.0	2.1

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE F-13. S&amp;E doctorate recipients, by disability status: 1994–2001

Disability status	1994	1995	1996	1997	1998	1999	2000	2001
All S&E doctorate recipients	26,205	26,536	27,243	27,242	27,283	25,940	25,951	25,509
No disability	25,832	26,179	26,959	26,922	26,961	25,603	25,623	25,172
With disability	373	357	284	320	322	337	328	337
Auditory	62	45	41	45	36	40	38	48
Learning <sup>a</sup>	0	0	0	0	0	0	0	84
Orthopedic	88	96	81	104	92	96	94	98
Visual	98	97	46	39	55	54	49	38
Vocal	13	5	7	7	11	6	6	8
Other/more than one	74	87	97	98	96	110	110	56
Unspecified	38	27	12	27	32	31	31	5

<sup>a</sup>Not included in survey before 2001.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-14. Top baccalaureate institutions of S&amp;E doctorate recipients with disabilities, by disability type: 1997–2001

Academic institution	All						Other/more	
	disabilities	Auditory	Learning <sup>a</sup>	Orthopedic	Visual	Vocal	than 1	Unspecified
All institutions	1,644	207	84	484	235	38	470	126
Foreign	228	32	0	75	48	8	22	43
Unknown	78	9	1	22	13	1	23	9
Top 67 U.S.	552	81	41	151	66	15	167	31
University of California, Berkeley	33	4	3	6	4	3	11	2
University of Wisconsin–Madison	21	0	0	5	2	2	10	2
Cornell University, all campuses	15	0	1	6	2	2	3	1
University of California, Los Angeles	15	3	1	3	3	0	4	1
University of Illinois at Urbana-Champaign	15	2	2	4	2	0	3	2
Texas A&M University, main campus	14	5	0	2	0	0	6	1
University of Minnesota, Twin Cities	14	1	2	6	2	0	2	1
Pennsylvania State University, main campus	13	3	1	3	2	0	4	0
University of California, Davis	12	3	3	2	2	0	1	1
University of Colorado at Boulder	11	0	1	3	2	0	4	1
University of Maryland at College Park	11	2	0	1	1	1	4	2
University of Michigan–Ann Arbor	11	3	0	2	1	0	4	1
Brigham Young University, main campus	10	1	2	3	0	0	2	2
Brown University	10	1	1	1	2	0	4	1
Ohio State University, main campus	10	0	1	2	3	1	3	0
Purdue University, main campus	10	1	0	2	0	1	6	0
University of California, San Diego	10	3	0	5	0	0	2	0
University of California, Santa Cruz	10	3	2	3	0	0	2	0
University of Washington, Seattle campus	10	0	0	5	1	0	4	0
Harvard University	9	0	0	5	0	0	4	0
University of Kansas, main campus	9	1	0	1	1	0	5	1
University of Pittsburgh, main campus	9	1	1	3	2	0	2	0
University of Texas at Austin	9	1	0	3	0	1	3	1
Duke University	8	0	1	3	1	0	2	1
Indiana University, Bloomington	8	1	2	0	1	1	3	0
Massachusetts Institute of Technology	8	0	0	3	0	0	4	1
Rensselaer Polytechnic Institute	8	1	0	1	1	1	3	1
Florida State University	7	1	0	2	1	0	3	0
Mount Holyoke College	7	1	0	2	1	0	3	0
Rutgers, the State University of New Jersey–New Brunswick	7	0	1	2	1	0	3	0
Stanford University	7	1	0	1	1	0	4	0
University of Delaware	7	0	0	4	2	0	1	0
University of Nebraska–Lincoln	7	0	0	3	1	0	2	1
University of Virginia, main campus	7	2	1	3	1	0	0	0
Washington University	7	2	0	0	0	0	2	3
California State University, Fresno	6	1	1	2	1	0	1	0
Dartmouth College	6	2	0	1	0	0	3	0
Michigan State University	6	0	0	1	2	0	2	1
Princeton University	6	2	1	3	0	0	0	0
San Francisco State University	6	1	1	1	1	0	2	0
San Jose State University	6	2	1	2	0	0	1	0
Syracuse University, main campus	6	1	1	4	0	0	0	0
Tulane University	6	1	1	1	0	0	3	0
University of California, Irvine	6	1	0	3	1	0	1	0
University of California, Santa Barbara	6	1	1	1	1	0	2	0
University of Missouri–Columbia	6	2	0	3	1	0	0	0
University of Oklahoma, Norman Campus	6	0	1	3	0	0	2	0
Washington State University	6	1	0	2	2	0	1	0
Arizona State University, main campus	5	1	0	2	1	0	1	0
Bowling Green State University	5	2	0	1	0	0	2	0
Brandeis University	5	2	0	0	0	0	3	0



TABLE F-14. Top baccalaureate institutions of S&amp;E doctorate recipients with disabilities, by disability type: 1997–2001

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Academic institution	All						Other/more	
	disabilities	Auditory	Learning <sup>a</sup>	Orthopedic	Visual	Vocal	than 1	Unspecified
California State University, Sacramento	5	1	1	3	0	0	0	0
Colorado State University	5	1	0	4	0	0	0	0
City University of New York, Hunter College	5	0	0	0	2	0	3	0
Oberlin College	5	0	0	1	2	0	2	0
Ohio University	5	1	0	1	2	0	1	0
Rochester Institute of Technology	5	2	1	0	0	0	1	1
State University of New York at Albany	5	0	1	1	2	0	1	0
Tufts University	5	0	0	2	0	1	2	0
University of Arizona	5	1	1	1	1	0	1	0
University of California, Riverside	5	1	0	2	1	0	1	0
University of Cincinnati	5	1	0	0	0	1	3	0
University of Florida	5	2	0	1	0	0	2	0
University of Massachusetts Amherst	5	1	1	2	0	0	1	0
University of Pennsylvania	5	1	1	1	1	0	1	0
Virginia Polytechnic Institute and State University	5	1	1	0	1	0	0	2
Yale University	5	1	0	2	1	0	1	0
Other U.S.	786	85	42	236	108	14	258	43

<sup>a</sup>Not included in survey before 2001.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-15. S&amp;E doctorate recipients, by field and disability status: 2001

Field	All recipients	No disability		With disability	
		Number	Percent	Number	Percent
S&E	25,509	25,172	100.0	337	100.0
Sciences	20,007	19,708	78.3	299	88.7
Agricultural sciences	848	838	3.3	10	3.0
Biological sciences	5,678	5,617	22.3	61	18.1
Computer sciences	826	817	3.2	9	2.7
Earth, atmospheric, and ocean sciences	749	731	2.9	18	5.3
Atmospheric	116	112	0.4	4	1.2
Earth	394	385	1.5	9	2.7
Ocean	119	117	0.5	2	0.6
Other	120	117	0.5	3	0.9
Mathematics/statistics	1,006	993	3.9	13	3.9
Physical sciences	3,389	3,361	13.4	28	8.3
Astronomy	186	185	0.7	1	0.3
Chemistry	1,979	1,960	7.8	19	5.6
Physics	1,193	1,185	4.7	8	2.4
Other	31	31	0.1	0	0.0
Social sciences	7,511	7,351	29.2	160	47.5
Anthropology	448	437	1.7	11	3.3
Area/ethnic studies	144	139	0.6	5	1.5
Economics	1,084	1,069	4.2	15	4.5
History of science	40	39	0.2	1	0.3
Linguistics	229	225	0.9	4	1.2
Political science	982	956	3.8	26	7.7
Psychology	3,433	3,356	13.3	77	22.8
Sociology	577	565	2.2	12	3.6
Other	574	565	2.2	9	2.7
Engineering	5,502	5,464	21.7	38	11.3
Aerospace	203	203	0.8	0	0.0
Chemical	726	721	2.9	5	1.5
Civil	593	588	2.3	5	1.5
Electrical	1,577	1,567	6.2	10	3.0
Industrial	205	203	0.8	2	0.6
Materials and metallurgy	499	496	2.0	3	0.9
Mechanical	953	950	3.8	3	0.9
Other	746	736	2.9	10	3.0

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 1997–2001  
(Percent)

Sex and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number)	87,588	73,318	2,518	21,169	2,450	2,666	2,998	11,364	15,940	14,213	14,270
Personal/family funds	24.5	26.2	23.9	13.4	26.2	16.8	14.0	8.8	50.9	36.0	16.0
Loans	6.2	7.1	3.6	2.1	1.9	1.9	1.4	1.1	20.4	8.0	1.6
Savings	1.4	1.5	1.7	0.6	2.7	1.4	0.7	0.4	2.3	2.7	1.3
Other earnings in graduate school	8.8	8.9	10.9	4.4	14.4	8.4	5.7	2.9	13.4	15.1	8.1
Other family earnings or savings	8.1	8.7	7.7	6.4	7.3	5.2	6.3	4.4	14.9	10.3	5.1
Teaching assistantship	15.2	16.8	6.4	11.3	10.5	13.4	51.8	20.4	13.1	22.4	7.0
Research assistantship, traineeship, and internship	31.3	28.7	46.4	38.9	31.9	41.2	10.8	49.2	14.4	11.2	44.5
Research assistantship	28.5	25.7	46.0	32.3	31.0	40.0	9.9	47.8	11.7	10.3	42.9
Traineeship	2.6	2.8	0.3	6.4	0.7	1.0	0.9	1.3	2.1	0.9	1.4
Internship or residency	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.2
Fellowship/scholarship and dissertation grant	19.3	19.4	11.5	29.0	14.9	20.7	16.7	14.0	10.6	21.7	18.6
Fellowship/scholarship	18.5	18.6	10.5	27.6	14.5	19.1	16.5	13.7	10.5	21.0	17.9
Dissertation grant	0.7	0.7	1.0	1.3	0.4	1.6	0.2	0.4	0.1	0.8	0.7
Employer reimbursement or assistance	2.9	2.0	4.2	1.5	8.4	2.3	1.4	1.8	1.5	2.2	7.2
Foreign	0.3	0.2	1.1	0.2	0.5	0.3	0.2	0.1	0.1	0.4	0.7
Other	0.8	0.8	0.6	1.0	1.0	0.8	0.5	0.6	0.8	0.8	1.1
Unknown	5.7	5.9	5.9	4.7	6.7	4.5	4.5	5.1	8.6	5.4	4.9
Female (number)	35,221	32,801	829	9,647	512	816	883	2,816	10,760	6,538	2,420
Personal/family funds	29.8	31.1	21.0	13.7	32.6	13.5	15.9	8.8	52.0	37.2	12.4
Loans	8.6	9.2	3.6	1.9	2.5	1.6	1.1	1.0	20.5	8.1	1.2
Savings	1.4	1.5	1.3	0.5	1.4	1.1	0.2	0.4	2.2	2.5	0.5
Other earnings in graduate school	9.0	9.2	7.8	4.3	16.0	6.6	4.6	2.3	12.3	15.1	5.2
Other family earnings or savings	10.8	11.1	8.2	7.0	12.7	4.2	9.9	5.2	17.0	11.5	5.6
Teaching assistantship	14.5	15.1	7.1	10.5	11.3	14.0	48.8	21.1	12.3	20.9	6.4
Research assistantship, traineeship, and internship	26.4	25.1	45.6	38.6	21.3	41.1	11.3	46.4	14.3	11.3	44.0
Research assistantship	22.9	21.6	44.8	31.3	20.3	38.8	10.5	44.1	11.8	10.2	40.5
Traineeship	3.3	3.3	0.8	7.1	0.8	2.0	0.7	2.2	2.1	1.0	3.2
Internship or residency	0.2	0.2	0.0	0.1	0.2	0.2	0.1	0.0	0.5	0.1	0.2
Fellowship/scholarship and dissertation grant	20.6	20.1	14.7	30.2	19.3	25.4	18.0	17.1	10.5	22.4	28.2
Fellowship/scholarship	19.8	19.2	13.6	28.6	18.9	23.4	17.8	16.7	10.3	21.5	27.0
Dissertation grant	0.9	0.8	1.1	1.6	0.4	2.0	0.2	0.5	0.1	0.9	1.2
Employer reimbursement or assistance	1.7	1.5	4.7	1.3	6.4	1.5	0.7	0.9	1.3	1.9	3.8
Foreign	0.2	0.2	0.6	0.2	0.2	0.2	0.2	0.1	0.1	0.4	0.6
Other	0.8	0.8	0.2	1.1	0.8	0.4	0.7	0.6	0.7	0.7	0.7
Unknown	6.0	6.1	6.0	4.4	8.0	4.0	4.4	5.0	8.8	5.1	4.0

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 1997–2001  
(Percent)

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Sex and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Male (number)	52,331	40,488	1,688	11,517	1,936	1,849	2,113	8,545	5,167	7,673	11,843
Personal/family funds	21.0	22.2	25.4	13.2	24.5	18.3	13.3	8.7	48.8	35.0	16.8
Loans	4.5	5.3	3.6	2.2	1.7	2.0	1.5	1.1	20.3	7.9	1.7
Savings	1.5	1.5	1.8	0.7	3.0	1.5	0.9	0.4	2.6	2.9	1.4
Other earnings in graduate school	8.7	8.7	12.4	4.5	13.9	9.2	6.1	3.1	15.6	15.1	8.7
Other family earnings or savings	6.3	6.7	7.5	5.8	5.8	5.6	4.9	4.1	10.4	9.2	5.0
Teaching assistantship	15.6	18.2	6.1	12.1	10.3	13.1	53.1	20.1	14.9	23.6	7.1
Research assistantship, traineeship, and internship	34.6	31.7	46.8	39.2	34.8	41.3	10.6	50.1	14.4	11.1	44.6
Research assistantship	32.3	29.1	46.6	33.1	33.9	40.6	9.7	49.0	11.6	10.3	43.4
Traineeship	2.1	2.4	0.1	5.8	0.7	0.6	0.9	1.0	2.1	0.7	1.1
Internship or residency	0.2	0.2	0.1	0.2	0.2	0.2	0.0	0.1	0.7	0.1	0.2
Fellowship/scholarship and dissertation grant	18.3	18.8	9.9	27.9	13.7	18.7	16.2	13.0	10.8	21.1	16.6
Fellowship/scholarship	17.7	18.2	9.0	26.8	13.4	17.3	16.0	12.7	10.7	20.5	16.1
Dissertation grant	0.6	0.7	0.9	1.1	0.4	1.5	0.2	0.4	0.1	0.6	0.6
Employer reimbursement or assistance	3.7	2.4	3.9	1.6	8.9	2.7	1.7	2.1	2.1	2.4	7.9
Foreign	0.4	0.3	1.4	0.1	0.6	0.3	0.2	0.1	0.0	0.4	0.7
Other	0.9	0.8	0.7	0.9	1.1	1.0	0.4	0.6	1.0	0.8	1.2
Unknown	5.5	5.6	5.9	5.0	6.2	4.7	4.5	5.2	8.0	5.6	5.1

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number)	87,588	73,318	2,518	21,169	2,450	2,666	2,998	11,364	15,940	14,213	14,270
Personal/family funds	24.5	26.2	23.9	13.4	26.2	16.8	14.0	8.8	50.9	36.0	16.0
Loans	6.2	7.1	3.6	2.1	1.9	1.9	1.4	1.1	20.4	8.0	1.6
Savings	1.4	1.5	1.7	0.6	2.7	1.4	0.7	0.4	2.3	2.7	1.3
Other earnings in graduate school	8.8	8.9	10.9	4.4	14.4	8.4	5.7	2.9	13.4	15.1	8.1
Other family earnings or savings	8.1	8.7	7.7	6.4	7.3	5.2	6.3	4.4	14.9	10.3	5.1
Teaching assistantship	15.2	16.8	6.4	11.3	10.5	13.4	51.8	20.4	13.1	22.4	7.0
Research assistantship, traineeship, and internship	31.3	28.7	46.4	38.9	31.9	41.2	10.8	49.2	14.4	11.2	44.5
Research assistantship	28.5	25.7	46.0	32.3	31.0	40.0	9.9	47.8	11.7	10.3	42.9
Traineeship	2.6	2.8	0.3	6.4	0.7	1.0	0.9	1.3	2.1	0.9	1.4
Internship or residency	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.2
Fellowship/scholarship or dissertation grant	19.3	19.4	11.5	29.0	14.9	20.7	16.7	14.0	10.6	21.7	18.6
Fellowship/scholarship	18.5	18.6	10.5	27.6	14.5	19.1	16.5	13.7	10.5	21.0	17.9
Dissertation grant	0.7	0.7	1.0	1.3	0.4	1.6	0.2	0.4	0.1	0.8	0.7
Employer reimbursement or assistance	2.9	2.0	4.2	1.5	8.4	2.3	1.4	1.8	1.5	2.2	7.2
Foreign	0.3	0.2	1.1	0.2	0.5	0.3	0.2	0.1	0.1	0.4	0.7
Other	0.8	0.8	0.6	1.0	1.0	0.8	0.5	0.6	0.8	0.8	1.1
Unknown	5.7	5.9	5.9	4.7	6.7	4.5	4.5	5.1	8.6	5.4	4.9
White (number)	67,684	57,485	2,011	16,078	1,783	2,208	2,400	8,975	12,913	11,117	10,199
Personal/family funds	26.2	27.8	25.8	14.7	27.9	17.9	14.3	9.4	53.3	37.1	17.1
Loans	6.4	7.2	3.9	2.2	1.5	1.6	1.1	1.1	20.6	7.8	1.6
Savings	1.5	1.5	1.4	0.6	2.6	1.4	0.7	0.4	2.5	2.7	1.3
Other earnings in graduate school	9.5	9.5	11.7	4.8	16.1	9.0	6.0	3.1	14.1	15.7	9.0
Other family earnings or savings	8.9	9.5	8.7	7.1	7.7	5.9	6.5	4.9	16.1	11.0	5.3
Teaching assistantship	16.0	17.7	6.8	12.2	9.9	14.0	53.4	20.4	14.2	23.5	6.5
Research assistantship, traineeship, and internship	31.3	29.1	46.4	39.0	31.0	40.3	11.2	50.3	15.3	11.7	44.0
Research assistantship	28.4	25.9	46.1	32.0	30.0	39.1	10.1	48.8	12.5	10.7	42.2
Traineeship	2.7	2.9	0.2	6.7	0.8	1.1	1.0	1.4	2.2	1.0	1.5
Internship or residency	0.2	0.3	0.0	0.2	0.2	0.1	0.1	0.1	0.6	0.1	0.2
Fellowship/scholarship or dissertation grant	18.0	17.8	10.8	27.5	15.4	20.9	15.6	13.4	8.3	20.0	19.0
Fellowship/scholarship	17.3	17.1	9.8	26.2	15.0	19.2	15.4	13.0	8.2	19.2	18.2
Dissertation grant	0.7	0.7	1.0	1.3	0.4	1.8	0.3	0.4	0.1	0.8	0.7
Employer reimbursement or assistance	3.0	2.1	4.5	1.6	9.1	2.4	1.5	1.8	1.5	2.3	8.0
Foreign	0.2	0.1	0.5	0.1	0.2	0.2	0.2	0.1	0.0	0.3	0.4
Other	0.8	0.8	0.4	1.0	1.0	0.7	0.4	0.5	0.8	0.8	1.1
Unknown	4.5	4.6	4.8	3.8	5.6	3.4	3.3	4.0	6.6	4.3	3.8

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

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Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Asian/Pacific Islander (number)	9,942	7,308	202	3,077	421	223	343	1,389	637	1,016	2,634
Personal/family funds	13.5	13.7	12.9	7.1	18.3	7.2	14.6	4.9	40.2	28.2	12.9
Loans	2.2	2.6	1.0	0.6	0.5	1.3	1.7	0.3	18.4	3.9	1.0
Savings	1.1	1.0	2.5	0.6	2.6	0.4	0.6	0.5	0.8	2.8	1.2
Other earnings in graduate school	4.8	4.5	5.4	2.2	9.3	3.1	5.0	1.9	8.0	10.5	5.7
Other family earnings or savings	5.4	5.6	4.0	3.8	5.9	2.2	7.3	2.2	13.0	11.0	5.0
Teaching assistantship	14.9	17.0	5.4	9.2	15.4	8.5	55.7	23.7	15.1	24.5	9.0
Research assistantship, traineeship, and internship	43.4	39.5	60.9	46.4	43.0	65.9	11.4	52.4	16.2	13.6	54.1
Research assistantship	40.9	36.5	60.4	40.7	42.3	64.6	10.8	51.4	13.2	13.4	53.0
Traineeship	2.3	2.8	0.5	5.6	0.2	0.4	0.6	0.9	2.7	0.1	0.9
Internship or residency	0.2	0.2	0.0	0.1	0.5	0.9	0.0	0.1	0.3	0.1	0.2
Fellowship/scholarship or dissertation grant	18.5	20.9	8.4	29.4	9.3	10.3	11.7	9.6	17.4	25.2	11.8
Fellowship/scholarship	17.9	20.2	7.4	28.4	8.8	9.4	11.4	9.5	17.3	24.4	11.5
Dissertation grant	0.6	0.7	1.0	1.1	0.5	0.9	0.3	0.1	0.2	0.8	0.3
Employer reimbursement or assistance	2.2	1.4	2.0	1.0	6.2	0.9	0.9	1.4	0.9	1.3	4.4
Foreign	0.7	0.4	3.0	0.1	1.2	0.4	0.0	0.1	0.3	1.1	1.3
Other	1.0	0.9	1.0	1.1	1.0	1.3	0.6	1.1	0.5	0.3	1.1
Unknown	6.0	6.2	6.4	5.6	5.7	5.4	5.2	6.8	9.4	5.8	5.4
Black (number)	3,382	2,930	97	593	69	42	68	290	845	926	452
Personal/family funds	26.4	28.4	17.5	12.0	33.3	16.7	11.8	8.3	40.6	36.5	13.5
Loans	11.8	12.9	5.2	4.0	15.9	9.5	7.4	3.4	21.4	14.9	4.4
Savings	1.6	1.7	1.0	0.5	2.9	0.0	0.0	0.0	2.1	2.8	0.9
Other earnings in graduate school	8.8	9.4	9.3	4.6	10.1	7.1	1.5	3.1	11.1	13.6	4.4
Other family earnings or savings	4.3	4.3	2.1	2.9	4.3	0.0	2.9	1.7	5.9	5.2	3.8
Teaching assistantship	9.4	10.0	6.2	7.1	4.3	11.9	27.9	16.9	6.3	12.5	5.8
Research assistantship, traineeship, and internship	16.5	15.4	38.1	24.5	8.7	23.8	2.9	28.3	11.6	7.7	23.9
Research assistantship	14.3	13.3	37.1	18.5	8.7	23.8	2.9	27.6	9.8	6.8	21.0
Traineeship	2.1	2.0	1.0	5.9	0.0	0.0	0.0	0.7	1.7	0.8	2.7
Internship or residency	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Fellowship/scholarship or dissertation grant	36.8	35.7	21.6	47.9	34.8	33.3	50.0	37.9	30.9	32.2	44.2
Fellowship/scholarship	36.0	34.9	21.6	45.2	34.8	33.3	50.0	36.6	30.8	31.9	43.6
Dissertation grant	0.8	0.8	0.0	2.7	0.0	0.0	0.0	1.4	0.1	0.3	0.7
Employer reimbursement or assistance	2.6	2.3	2.1	1.0	5.8	7.1	1.5	1.4	2.6	2.7	4.9
Foreign	0.3	0.2	3.1	0.3	1.4	0.0	0.0	0.0	0.0	0.1	0.4
Other	0.9	0.8	1.0	0.8	1.4	2.4	0.0	1.4	0.6	0.8	1.3
Unknown	7.0	7.2	10.3	6.4	10.1	4.8	5.9	5.9	7.5	7.6	6.0

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Hispanic (number)	3,531	3,069	121	826	67	86	92	329	979	569	462
Personal/family funds	25.9	27.6	21.5	13.2	29.9	19.8	9.8	9.7	46.2	31.8	15.2
Loans	9.5	10.4	4.1	3.3	4.5	7.0	2.2	2.1	22.3	8.8	3.5
Savings	1.3	1.4	4.1	0.2	3.0	2.3	1.1	0.3	1.5	2.5	0.9
Other earnings in graduate school	8.2	8.4	8.3	4.1	11.9	8.1	2.2	4.0	11.2	13.2	6.3
Other family earnings or savings	7.0	7.4	5.0	5.6	10.4	2.3	4.3	3.3	11.1	7.4	4.5
Teaching assistantship	10.9	11.6	2.5	8.0	11.9	11.6	32.6	16.1	7.4	19.9	6.7
Research assistantship, traineeship, and internship	19.7	17.9	40.5	27.0	25.4	20.9	6.5	35.3	7.9	7.4	32.0
Research assistantship	17.6	15.8	39.7	23.1	23.9	18.6	6.5	33.4	5.8	7.0	29.9
Traineeship	1.9	1.9	0.0	3.9	1.5	2.3	0.0	1.8	1.6	0.2	2.2
Internship or residency	0.2	0.2	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0
Fellowship/scholarship or dissertation grant	28.8	29.0	15.7	42.0	11.9	34.9	38.0	28.0	18.6	31.3	27.3
Fellowship/scholarship	28.0	28.3	14.9	40.3	11.9	34.9	38.0	27.7	18.4	30.4	26.2
Dissertation grant	0.8	0.7	0.8	1.7	0.0	0.0	0.0	0.3	0.2	0.9	1.1
Employer reimbursement or assistance	2.7	2.0	3.3	1.3	9.0	2.3	2.2	3.0	2.0	0.9	7.4
Foreign	1.6	1.3	6.6	1.2	3.0	2.3	1.1	1.2	0.3	1.9	3.7
Other	1.0	0.9	2.5	1.0	1.5	1.2	0.0	0.3	0.9	1.1	1.5
Unknown	9.3	9.7	7.4	6.3	7.5	7.0	9.8	6.4	16.8	5.8	6.3
American Indian/Alaskan Native (number)	452	395	19	71	8	16	9	50	123	99	57
Personal/family funds	28.5	28.4	0.0	15.5	25.0	18.8	11.1	18.0	40.7	36.4	29.8
Loans	7.7	8.1	0.0	7.0	12.5	0.0	0.0	2.0	17.1	4.0	5.3
Savings	2.4	2.5	0.0	1.4	0.0	6.3	0.0	4.0	1.6	4.0	1.8
Other earnings in graduate school	10.6	10.4	0.0	4.2	12.5	12.5	11.1	4.0	8.1	22.2	12.3
Other family earnings or savings	7.7	7.3	0.0	2.8	0.0	0.0	0.0	8.0	13.8	6.1	10.5
Teaching assistantship	8.8	10.1	10.5	7.0	12.5	12.5	55.6	10.0	7.3	11.1	0.0
Research assistantship, traineeship, and internship	20.6	19.7	31.6	32.4	37.5	37.5	33.3	40.0	7.3	8.1	26.3
Research assistantship	18.8	18.0	31.6	26.8	25.0	37.5	33.3	38.0	6.5	8.1	24.6
Traineeship	1.5	1.5	0.0	5.6	12.5	0.0	0.0	2.0	0.0	0.0	1.8
Internship or residency	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
Fellowship/scholarship or dissertation grant	28.1	28.9	21.1	40.8	25.0	31.3	0.0	16.0	27.6	32.3	22.8
Fellowship/scholarship	27.4	28.4	21.1	39.4	25.0	31.3	0.0	16.0	26.8	32.3	21.1
Dissertation grant	0.7	0.5	0.0	1.4	0.0	0.0	0.0	0.0	0.8	0.0	1.8
Employer reimbursement or assistance	2.9	1.8	15.8	0.0	0.0	0.0	0.0	0.0	1.6	2.0	10.5
Foreign	1.5	1.3	5.3	1.4	0.0	0.0	0.0	0.0	1.6	1.0	3.5
Other	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Unknown	9.1	9.4	15.8	2.8	0.0	0.0	0.0	16.0	12.2	9.1	7.0

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

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Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Other or unknown race/ethnicity (number)	2,597	2,131	68	524	102	91	86	331	443	486	466
Personal/family funds	18.3	19.8	22.1	12.8	21.6	9.9	10.5	4.5	30.0	31.3	11.6
Loans	4.4	5.2	1.5	1.5	2.9	2.2	1.2	0.3	13.5	7.0	0.6
Savings	1.3	1.2	2.9	0.6	3.9	0.0	0.0	0.3	1.1	2.3	1.7
Other earnings in graduate school	7.9	8.4	13.2	5.9	9.8	7.7	5.8	1.5	8.6	15.0	6.0
Other family earnings or savings	4.7	5.1	4.4	4.8	4.9	0.0	3.5	2.4	6.8	7.0	3.2
Teaching assistantship	10.1	10.7	4.4	7.1	3.9	11.0	29.1	14.2	6.3	15.4	6.9
Research assistantship, traineeship, and internship	21.9	19.0	27.9	27.1	22.5	30.8	7.0	38.7	6.8	5.8	35.6
Research assistantship	20.3	17.0	26.5	21.9	22.5	29.7	7.0	38.4	5.0	5.1	35.0
Traineeship	1.5	1.7	1.5	5.2	0.0	0.0	0.0	0.3	0.9	0.6	0.4
Internship or residency	0.2	0.2	0.0	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.2
Fellowship/scholarship or dissertation grant	17.1	17.6	14.7	26.0	17.6	20.9	20.9	13.6	6.5	20.8	14.6
Fellowship/scholarship	16.6	17.1	13.2	25.2	17.6	18.7	20.9	13.3	6.5	20.0	14.2
Dissertation grant	0.5	0.6	1.5	0.8	0.0	2.2	0.0	0.3	0.0	0.8	0.4
Employer reimbursement or assistance	2.2	1.5	2.9	1.1	6.9	0.0	0.0	1.2	0.7	2.1	5.2
Foreign	0.4	0.3	0.0	0.2	0.0	0.0	1.2	0.0	0.2	0.6	1.1
Other	1.0	1.0	1.5	1.1	1.0	1.1	2.3	1.2	0.5	0.8	1.3
Unknown	29.0	30.1	26.5	24.6	26.5	26.4	29.1	26.6	49.0	23.3	23.8

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.



TABLE F-18. Primary source of support for U.S.-citizen and permanent-resident S&amp;E doctorate recipients, by disability status: 1997–2001

(Percent)

Primary source of support	All recipients	No disability	With disability
All recipients (number)	87,588	86,175	1,413
Personal/family funds	24.5	24.2	40.8
Loans	6.2	6.1	11.4
Savings	1.4	1.4	3.9
Other earnings in graduate school	8.8	8.7	14.7
Other family earnings or savings	8.1	8.1	10.8
Teaching assistantship	15.2	15.2	13.7
Research assistantship, traineeship, and internship	31.3	31.5	20.0
Research assistantship	28.5	28.7	17.6
Traineeship	2.6	2.6	1.9
Internship or residency	0.2	0.2	0.4
Fellowship/scholarship and dissertation grant	19.3	19.3	17.1
Fellowship/scholarship	18.5	18.6	16.4
Dissertation grant	0.7	0.7	0.6
Business or employer funds	2.9	2.9	3.3
Foreign	0.3	0.3	0.1
Other	1.4	1.4	3.4
Unknown	5.7	5.7	2.4

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-19. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctorate recipients with definite postgraduate plans, by sex: 2001

(Percent distribution)

Location and type of postgraduate activity	Both sexes	Female	Male
All recipients (number)	11,601	4,684	6,917
United States	96.4	96.8	96.0
Academic employment	22.3	25.0	20.5
Postdoctoral study	39.3	42.6	37.1
Industry employment	22.1	15.5	26.6
Other <sup>a</sup>	12.7	13.7	11.9
Abroad	3.3	2.8	3.6
Location unknown	0.3	0.3	0.3

<sup>a</sup>Includes government, nonprofit, and other or unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2001  
(Percent distribution)

Page 1 of 2

Major field and sex	United States					Abroad	Location unknown
	All plans	Postdoctoral study	Academic employment	Industry employment	Other		
All fields	96.8	25.8	36.6	15.8	18.6	2.8	0.3
S&E	96.4	39.3	22.3	22.1	12.7	3.3	0.3
Sciences	96.3	43.4	23.8	16.6	12.5	3.3	0.3
Agricultural sciences	95.7	26.4	32.3	21.8	15.2	4.3	0.0
Biological sciences	96.2	71.7	9.1	9.8	5.7	3.4	0.3
Computer sciences	98.6	10.5	38.2	41.2	8.8	1.4	0.0
Earth, atmospheric, and ocean sciences	95.3	43.0	23.1	15.8	13.5	4.7	0.0
Mathematics	95.9	29.9	40.5	15.2	10.3	3.6	0.5
Physical sciences	95.0	46.2	9.6	33.2	6.1	4.4	0.5
Astronomy	90.9	68.7	6.1	10.1	6.1	9.1	0.0
Chemistry	96.0	45.8	8.8	36.9	4.4	3.2	0.8
Physics	93.9	42.2	11.8	30.9	9.0	6.1	0.0
Other	100.0	50.0	16.7	16.7	16.7	0.0	0.0
Psychology	98.6	38.9	21.8	15.4	22.6	1.0	0.3
Social sciences	95.0	12.4	54.0	11.3	17.3	4.6	0.4
Engineering	96.5	15.9	13.7	53.1	13.8	3.2	0.3
Aeronautical/astronautical	98.7	11.4	11.4	39.2	36.7	1.3	0.0
Chemical	94.4	19.9	6.4	64.5	3.6	5.2	0.4
Civil	94.9	17.1	28.6	35.4	13.7	5.1	0.0
Electrical	97.5	8.1	11.1	64.6	13.8	2.0	0.5
Industrial	98.3	0.0	33.3	46.7	18.3	1.7	0.0
Materials/metallurgical	96.6	20.7	4.0	63.8	8.0	2.9	0.6
Mechanical	98.1	17.5	11.7	53.7	15.2	1.6	0.3
Other	95.0	22.9	19.6	35.0	17.5	5.0	0.0
Non-S&E	97.5	7.7	55.8	7.4	26.6	2.2	0.3
Female	97.5	24.8	40.8	11.0	20.8	2.2	0.3
S&E	96.8	42.6	25.0	15.5	13.7	2.8	0.3
Sciences	96.9	44.4	25.4	13.3	13.8	2.8	0.3
Agricultural sciences	98.1	29.9	26.2	24.3	17.8	1.9	0.0
Biological sciences	96.0	70.7	10.8	9.2	5.4	3.8	0.2
Computer sciences	98.4	10.9	46.9	31.3	9.4	1.6	0.0
Earth, atmospheric, and ocean sciences	95.9	41.3	25.6	13.2	15.7	4.1	0.0
Mathematics	98.1	24.5	50.9	12.3	10.4	1.9	0.0
Physical sciences	94.7	42.7	15.0	31.7	5.3	4.2	1.1
Astronomy	86.4	59.1	13.6	9.1	4.5	13.6	0.0
Chemistry	94.9	42.0	13.3	35.8	3.8	3.8	1.4
Physics	96.7	41.0	23.0	19.7	13.1	3.3	0.0
Other	100.0	33.3	33.3	33.3	0.0	0.0	0.0
Psychology	99.0	42.1	21.1	13.2	22.5	0.7	0.3
Social sciences	95.7	15.6	54.5	9.3	16.3	3.9	0.3
Engineering	95.6	18.4	19.0	45.2	13.1	3.7	0.6
Aeronautical/astronautical	92.9	0.0	7.1	50.0	35.7	7.1	0.0
Chemical	95.2	22.6	8.1	61.3	3.2	4.8	0.0
Civil	95.1	19.5	39.0	24.4	12.2	4.9	0.0
Electrical	97.7	9.3	18.6	60.5	9.3	0.0	2.3
Industrial	100.0	0.0	35.3	35.3	29.4	0.0	0.0
Materials/metallurgical	97.6	21.4	4.8	57.1	14.3	2.4	0.0
Mechanical	93.5	19.4	22.6	45.2	6.5	3.2	3.2
Other	94.4	25.4	22.5	28.2	18.3	5.6	0.0
Non-S&E	98.1	8.3	55.6	6.9	27.3	1.6	0.3
Male	96.2	26.7	32.7	20.2	16.6	3.4	0.3
S&E	96.0	37.1	20.5	26.6	11.9	3.6	0.3
Sciences	95.9	42.7	22.5	19.3	11.4	3.8	0.4

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2001  
(Percent distribution)

Page 2 of 2

Major field and sex	United States						Abroad	Location unknown
	All plans	Postdoctoral study	Academic employment	Industry employment	Other			
Agricultural sciences	94.4	24.5	35.7	20.4	13.8	5.6	0.0	
Biological sciences	96.4	72.5	7.7	10.2	6.0	3.2	0.4	
Computer sciences	98.7	10.3	35.8	44.0	8.6	1.3	0.0	
Earth, atmospheric, and ocean sciences	95.0	43.9	21.7	17.2	12.2	5.0	0.0	
Mathematics	95.0	31.9	36.5	16.3	10.3	4.3	0.7	
Physical sciences	95.1	47.4	7.8	33.7	6.3	4.5	0.3	
Astronomy	92.2	71.4	3.9	10.4	6.5	7.8	0.0	
Chemistry	96.5	47.5	6.7	37.4	4.8	2.9	0.6	
Physics	93.5	42.4	10.1	32.5	8.4	6.5	0.0	
Other	100.0	55.6	11.1	11.1	22.2	0.0	0.0	
Psychology	97.9	32.4	23.0	19.7	22.8	1.7	0.4	
Social sciences	94.5	9.7	53.5	13.1	18.1	5.1	0.4	
Engineering	96.7	15.4	12.5	54.9	13.9	3.1	0.2	
Aeronautical/astronautical	100.0	13.8	12.3	36.9	36.9	0.0	0.0	
Chemical	94.2	19.0	5.8	65.6	3.7	5.3	0.5	
Civil	94.8	16.4	25.4	38.8	14.2	5.2	0.0	
Electrical	97.5	8.0	10.2	65.1	14.3	2.2	0.3	
Industrial	97.7	0.0	32.6	51.2	14.0	2.3	0.0	
Materials/metallurgical	96.2	20.5	3.8	65.9	6.1	3.0	0.8	
Mechanical	98.6	17.3	10.6	54.6	16.2	1.4	0.0	
Other	95.2	22.0	18.7	37.3	17.2	4.8	0.0	
Non-S&E	96.6	6.9	56.2	8.0	25.6	3.1	0.3	

NOTES: Definite postgraduate plans defined by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* with *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study*. "Other" includes government, self-employed, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE G-2. S&amp;E postdoctoral fellows, by field and sex: 1994–2001

Page 1 of 5

Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
All fields								
S&E	25,787	26,160	26,569	27,264	27,876	28,974	30,246	30,058
Sciences	23,181	23,512	23,892	24,293	25,023	25,778	26,933	26,940
Agricultural sciences	699	694	674	702	669	712	786	799
Biological sciences	14,409	14,689	14,915	15,104	15,787	16,129	16,770	16,921
Anatomy	466	468	498	541	532	574	504	488
Biochemistry	2,379	2,421	2,477	2,539	2,532	2,485	2,469	2,563
Biology	1,578	1,615	1,628	1,599	1,813	1,892	1,937	1,950
Biometry/epidemiology	128	153	153	181	175	176	127	153
Biophysics	184	230	252	240	239	266	164	187
Botany	590	630	599	596	581	597	554	582
Cell/molecular biology	1,686	1,802	1,775	1,815	2,121	2,153	2,157	2,056
Ecology	88	95	107	130	113	122	150	159
Entomology/parasitology	190	179	183	216	181	178	197	221
Genetics	661	752	719	736	732	795	793	882
Microbiology, immunology, and virology	1,917	1,940	1,971	1,990	2,089	2,158	2,253	2,198
Nutrition	192	186	198	209	234	238	224	244
Pathology	1,256	1,188	1,220	1,377	1,332	1,321	1,757	1,779
Pharmacology	1,379	1,404	1,424	1,369	1,470	1,512	1,461	1,372
Physiology	1,109	1,026	1,089	1,118	1,138	1,132	1,140	1,198
Zoology	164	154	124	108	140	145	112	98
Other	442	446	498	340	365	385	771	791
Computer sciences	185	213	250	322	374	334	366	361
Earth, atmospheric, and ocean sciences	824	845	861	942	902	925	1,155	1,035
Atmospheric	89	88	80	98	85	107	94	87
Earth	444	440	451	494	468	479	514	470
Ocean	237	258	244	258	249	235	246	218
Other	54	59	86	92	100	104	301	260
Mathematics	220	245	306	284	255	321	357	331
Physical sciences	5,884	5,851	5,828	5,968	6,004	6,157	6,270	6,212
Astronomy	246	276	312	319	360	375	315	310
Chemistry	3,729	3,647	3,572	3,747	3,741	3,836	3,877	3,862
Physics	1,865	1,832	1,858	1,803	1,863	1,862	1,948	1,904
Other	44	96	86	99	40	84	130	136
Psychology	551	582	594	586	617	716	730	830
Clinical	38	56	50	45	51	70	73	82
General	313	297	361	361	393	412	411	498
Nonclinical	200	229	183	180	173	234	246	250
Social sciences	390	376	444	361	391	454	471	428
Agricultural economics	45	39	56	50	38	43	41	34
Anthropology (cultural and social)	57	67	74	59	62	87	73	56
Economics	46	27	16	19	29	31	32	43
Geography	26	16	22	12	18	30	34	36
History and philosophy of science	30	36	35	28	23	10	14	9
Linguistics	20	16	36	19	18	15	19	17
Political science and public administration	44	36	35	31	64	70	50	52
Sociology	78	91	127	102	79	104	102	87
Other	44	48	43	41	60	64	106	94
Statistics	19	17	20	24	24	30	28	23
Engineering	2,606	2,648	2,677	2,971	2,853	3,196	3,313	3,118
Aerospace	100	101	109	125	133	128	111	121
Agricultural	45	46	48	58	56	62	56	55
Biomedical	141	134	143	158	180	242	220	264
Chemical	527	576	545	636	613	671	703	579
Civil	210	201	230	248	225	299	295	278
Electrical	411	381	395	508	488	548	525	435

TABLE G-2. S&amp;E postdoctoral fellows, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	95	101	93	115	110	122	163	162
Industrial/manufacturing	54	30	30	28	30	27	48	20
Mechanical	388	410	425	440	434	476	480	500
Metallurgical/materials	441	490	496	465	404	421	507	468
Mining	24	19	10	11	10	6	8	14
Nuclear	39	28	28	33	19	30	40	76
Petroleum	14	9	6	21	14	19	20	17
Other	117	122	119	125	137	145	137	129
Female								
S&E	7,297	7,498	7,622	7,894	8,326	8,706	8,935	9,200
Sciences	6,963	7,177	7,307	7,548	7,943	8,237	8,462	8,730
Agricultural sciences	184	168	161	190	177	194	230	239
Biological sciences	5,244	5,368	5,445	5,574	5,918	6,079	6,246	6,387
Anatomy	185	205	220	202	207	218	168	179
Biochemistry	823	830	834	876	891	888	865	911
Biology	555	558	578	569	670	693	717	687
Biometry/epidemiology	62	62	80	91	87	97	73	85
Biophysics	46	71	68	65	65	64	45	54
Botany	202	200	187	169	166	181	164	183
Cell/molecular biology	654	668	709	733	825	828	852	813
Ecology	26	32	34	43	37	37	46	54
Entomology/parasitology	43	38	35	53	48	47	53	55
Genetics	257	294	248	284	317	309	306	358
Microbiology, immunology, and virology	762	809	779	809	888	937	945	922
Nutrition	69	76	70	72	98	83	94	108
Pathology	463	452	486	540	510	502	653	664
Pharmacology	506	522	514	527	558	590	556	541
Physiology	385	354	374	383	368	405	413	446
Zoology	57	52	42	37	53	65	33	28
Other	149	145	187	121	130	135	263	299
Computer sciences	31	29	48	46	62	58	47	55
Earth, atmospheric, ocean sciences	174	184	183	221	228	219	292	284
Atmospheric	13	13	14	20	17	20	21	23
Earth	78	78	85	111	117	109	114	121
Ocean	71	72	62	75	77	70	81	78
Other	12	21	22	15	17	20	76	62
Mathematics/applied mathematics	43	41	45	38	34	66	44	57
Physical sciences	882	940	933	1,046	1,052	1,045	1,044	1,082
Astronomy	38	56	47	51	70	58	49	55
Chemistry	675	697	694	760	780	778	773	808
Physics	163	179	184	206	195	199	208	199
Other	6	8	8	29	7	10	14	20
Psychology	246	281	286	287	316	373	357	438
General	136	147	164	167	191	194	180	243
Nonclinical	84	95	93	90	92	125	126	132
Clinical	26	39	29	30	33	54	51	63
Social sciences	155	162	201	144	152	196	195	181
Agricultural economics	12	13	15	11	6	10	11	9
Anthropology (cultural and social)	32	29	30	24	27	40	35	23
Economics	9	6	3	2	5	5	8	14
Geography	8	6	11	5	6	11	8	8
History and philosophy of science	15	14	10	10	7	5	6	3
Linguistics	11	11	22	11	12	9	7	10
Political science and public administration	13	10	10	11	23	22	15	14

TABLE G-2. S&amp;E postdoctoral fellows, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Sociology	38	55	74	50	42	63	53	48
Other	17	18	26	20	24	31	52	52
Statistics	4	4	5	2	4	7	7	7
Engineering	334	321	315	346	383	469	473	470
Aerospace	11	10	9	11	8	15	10	12
Agricultural	8	4	3	4	6	8	7	6
Biomedical	21	27	30	35	39	64	66	73
Chemical	76	79	85	93	117	119	116	110
Civil	27	23	32	39	35	55	55	49
Electrical	49	32	31	39	49	67	51	48
Engineering science/physics	11	10	13	21	18	17	26	23
Industrial/manufacturing	10	5	7	1	2	5	8	3
Mechanical	27	37	34	26	30	34	38	43
Metallurgical/materials	61	69	62	62	65	69	76	78
Mining	2	1	0	0	0	0	1	1
Nuclear	6	4	3	3	2	2	3	5
Petroleum	0	0	0	1	2	0	1	2
Other	25	20	6	11	10	14	15	17
Male								
S&E	18,490	18,662	18,947	19,370	19,550	20,268	21,311	20,858
Sciences	16,218	16,335	16,585	16,745	17,080	17,541	18,471	18,210
Agricultural sciences	515	526	513	512	492	518	556	560
Biological sciences	9,165	9,321	9,470	9,530	9,869	10,050	10,524	10,534
Anatomy	281	263	278	339	325	356	336	309
Biochemistry	1,556	1,591	1,643	1,663	1,641	1,597	1,604	1,652
Biology	1,023	1,057	1,050	1,030	1,143	1,199	1,220	1,263
Biometry/epidemiology	66	91	73	90	88	79	54	68
Biophysics	138	159	184	175	174	202	119	133
Botany	388	430	412	427	415	416	390	399
Cell/molecular biology	1,032	1,134	1,066	1,082	1,296	1,325	1,305	1,243
Ecology	62	63	73	87	76	85	104	105
Entomology/parasitology	147	141	148	163	133	131	144	166
Genetics	404	458	471	452	415	486	487	524
Microbiology, immunology, and virology	1,155	1,131	1,192	1,181	1,201	1,221	1,308	1,276
Nutrition	123	110	128	137	136	155	130	136
Pathology	793	736	734	837	822	819	1,104	1,115
Pharmacology	873	882	910	842	912	922	905	831
Physiology	724	672	715	735	770	727	727	752
Zoology	107	102	82	71	87	80	79	70
Other	293	301	311	219	235	250	508	492
Computer sciences	154	184	202	276	312	276	319	306
Earth, atmospheric, and ocean sciences	650	661	678	721	674	706	863	751
Atmospheric	76	75	66	78	68	87	73	64
Earth	366	362	366	383	351	370	400	349
Ocean	166	186	182	183	172	165	165	140
Other	42	38	64	77	83	84	225	198
Mathematics and applied mathematics	177	204	261	246	221	255	313	274
Physical sciences	5,002	4,911	4,895	4,922	4,952	5,112	5,226	5,130
Astronomy	208	220	265	268	290	317	266	255
Chemistry	3,054	2,950	2,878	2,987	2,961	3,058	3,104	3,054
Physics	1,702	1,653	1,674	1,597	1,668	1,663	1,740	1,705
Other	38	88	78	70	33	74	116	116
Psychology	305	301	308	299	301	343	373	392
Clinical	12	17	21	15	18	16	22	19
General	177	150	197	194	202	218	231	255
Nonclinical	116	134	90	90	81	109	120	118

TABLE G-2. S&amp;E postdoctoral fellows, by field and sex: 1994–2001

Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Social sciences	235	214	243	217	239	258	276	247
Agricultural economics	33	26	41	39	32	33	30	25
Anthropology (cultural and social)	25	38	44	35	35	47	38	33
Economics	37	21	13	17	24	26	24	29
Geography	18	10	11	7	12	19	26	28
History and philosophy of science	15	22	25	18	16	5	8	6
Linguistics	9	5	14	8	6	6	12	7
Political science and public administration	31	26	25	20	41	48	35	38
Sociology	40	36	53	52	37	41	49	39
Other	27	30	17	21	36	33	54	42
Statistics	15	13	15	22	20	23	21	16
Engineering	2,272	2,327	2,362	2,625	2,470	2,727	2,840	2,648
Aerospace	89	91	100	114	125	113	101	109
Agricultural	37	42	45	54	50	54	49	49
Biomedical	120	107	113	123	141	178	154	191
Chemical	451	497	460	543	496	552	587	469
Civil	183	178	198	209	190	244	240	229
Electrical	362	349	364	469	439	481	474	387
Engineering science/physics	84	91	80	94	92	105	137	139
Industrial/manufacturing	44	25	23	27	28	22	40	17
Mechanical	361	373	391	414	404	442	442	457
Metallurgical/materials	380	421	434	403	339	352	431	390
Mining	22	18	10	11	10	6	7	13
Nuclear	33	24	25	30	17	28	37	71
Petroleum	14	9	6	20	12	19	19	15
Other	92	102	113	114	127	131	122	112
	Percent							
Female								
S&E	28.3	28.7	28.7	29.0	29.9	30.0	29.5	30.6
Sciences								
Agricultural sciences	26.3	24.2	23.9	27.1	26.5	27.2	29.3	29.9
Biological sciences	36.4	36.5	36.5	36.9	37.5	37.7	37.2	37.7
Anatomy	39.7	43.8	44.2	37.3	38.9	38.0	33.3	36.7
Biochemistry	34.6	34.3	33.7	34.5	35.2	35.7	35.0	35.5
Biology	35.2	34.6	35.5	35.6	37.0	36.6	37.0	35.2
Biometry/epidemiology	48.4	40.5	52.3	50.3	49.7	55.1	57.5	55.6
Biophysics	25.0	30.9	27.0	27.1	27.2	24.1	27.4	28.9
Botany	34.2	31.7	31.2	28.4	28.6	30.3	29.6	31.4
Cell/molecular biology	38.8	37.1	39.9	40.4	38.9	38.5	39.5	39.5
Ecology	29.5	33.7	31.8	33.1	32.7	30.3	30.7	34.0
Entomology/parasitology	22.6	21.2	19.1	24.5	26.5	26.4	26.9	24.9
Genetics	38.9	39.1	34.5	38.6	43.3	38.9	38.6	40.6
Microbiology, immunology, and virology	39.7	41.7	39.5	40.7	42.5	43.4	41.9	41.9
Nutrition	35.9	40.9	35.4	34.4	41.9	34.9	42.0	44.3
Pathology	36.9	38.0	39.8	39.2	38.3	38.0	37.2	37.3
Pharmacology	36.7	37.2	36.1	38.5	38.0	39.0	38.1	39.4
Physiology	34.7	34.5	34.3	34.3	32.3	35.8	36.2	37.2
Zoology	34.8	33.8	33.9	34.3	37.9	44.8	29.5	28.6
Other	33.7	32.5	37.6	35.6	35.6	35.1	34.1	37.8
Computer sciences	16.8	13.6	19.2	14.3	16.6	17.4	12.8	15.2
Earth, atmospheric, and ocean sciences	21.1	21.8	21.3	23.5	25.3	23.7	25.3	27.4
Atmospheric	14.6	14.8	17.5	20.4	20.0	18.7	22.3	26.4
Earth	17.6	17.7	18.8	22.5	25.0	22.8	22.2	25.7
Ocean	30.0	27.9	25.4	29.1	30.9	29.8	32.9	35.8
Other	22.2	35.6	25.6	16.3	17.0	19.2	25.2	23.8
Mathematics	19.5	16.7	14.7	13.4	13.3	20.6	12.3	17.2



TABLE G-2. S&amp;E postdoctoral fellows, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Physical sciences	15.0	16.1	16.0	17.5	17.5	17.0	16.7	17.4
Astronomy	15.4	20.3	15.1	16.0	19.4	15.5	15.6	17.7
Chemistry	18.1	19.1	19.4	20.3	20.9	20.3	19.9	20.9
Physics	8.7	9.8	9.9	11.4	10.5	10.7	10.7	10.5
Other	13.6	8.3	9.3	29.3	17.5	11.9	10.8	14.7
Psychology	44.6	48.3	48.1	49.0	51.2	52.1	48.9	52.8
Clinical	68.4	69.6	58.0	66.7	64.7	77.1	69.9	76.8
General	43.5	49.5	45.4	46.3	48.6	47.1	43.8	48.8
Nonclinical	42.0	41.5	50.8	50.0	53.2	53.4	51.2	52.8
Social sciences	39.7	43.1	45.3	39.9	38.9	43.2	41.4	42.3
Agricultural economics	26.7	33.3	26.8	22.0	15.8	23.3	26.8	26.5
Anthropology (cultural and social)	56.1	43.3	40.5	40.7	43.5	46.0	47.9	41.1
Economics	19.6	22.2	18.8	10.5	17.2	16.1	25.0	32.6
Geography	30.8	37.5	50.0	41.7	33.3	36.7	23.5	22.2
History and philosophy of science	50.0	38.9	28.6	35.7	30.4	50.0	42.9	33.3
Linguistics	55.0	68.8	61.1	57.9	66.7	60.0	36.8	58.8
Political science and public administration	29.5	27.8	28.6	35.5	35.9	31.4	30.0	26.9
Sociology	48.7	60.4	58.3	49.0	53.2	60.6	52.0	55.2
Other	38.6	37.5	60.5	48.8	40.0	48.4	49.1	55.3
Statistics	21.1	23.5	25.0	8.3	16.7	23.3	25.0	30.4
Engineering	12.8	12.1	11.8	11.6	13.4	14.7	14.3	15.1
Aerospace	11.0	9.9	8.3	8.8	6.0	11.7	9.0	9.9
Agricultural	17.8	8.7	6.3	6.9	10.7	12.9	12.5	10.9
Biomedical	14.9	20.1	21.0	22.2	21.7	26.4	30.0	27.7
Chemical	14.4	13.7	15.6	14.6	19.1	17.7	16.5	19.0
Civil	12.9	11.4	13.9	15.7	15.6	18.4	18.6	17.6
Electrical	11.9	8.4	7.8	7.7	10.0	12.2	9.7	11.0
Engineering science/physics	11.6	9.9	14.0	18.3	16.4	13.9	16.0	14.2
Industrial/manufacturing	18.5	16.7	23.3	3.6	6.7	18.5	16.7	15.0
Mechanical	7.0	9.0	8.0	5.9	6.9	7.1	7.9	8.6
Metallurgical/materials	13.8	14.1	12.5	13.3	16.1	16.4	15.0	16.7
Mining	8.3	5.3	0.0	0.0	0.0	0.0	12.5	7.1
Nuclear	15.4	14.3	10.7	9.1	10.5	6.7	7.5	6.6
Petroleum	0.0	0.0	0.0	4.8	14.3	0.0	5.0	11.8
Other	21.4	16.4	5.0	8.8	7.3	9.7	10.9	13.2

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE G-3. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree recipients with definite postgraduate plans, by race/ethnicity: 2001  
(Percent)

Location and type of activity	All recipients	White	Asian/Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Unknown/ unreported
All doctoral degree recipients with definite plans (number)	11,601	9,224	1,125	437	479	47	289
United States	96.4	96.3	97.2	98.2	96.0	97.9	94.1
Academic employment	22.3	23.0	13.1	26.5	25.5	25.5	21.8
Industry employment	22.1	20.7	36.7	19.7	15.2	21.3	24.9
Postdoctoral study	39.3	39.5	40.6	33.6	40.7	25.5	34.9
Other	12.7	12.9	6.8	18.3	14.6	25.5	12.5
Abroad	3.3	3.4	2.4	1.4	4.0	2.1	4.2
Location unknown	0.3	0.3	0.4	0.5	0.0	0.0	1.7

NOTES: Definite postgraduate plans defined by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* with *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study*. "Other" includes government, self-employed, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE G-4. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree recipients with definite postgraduate plans, by disability status: 2001  
(Percent)

Location and type of activity	All recipients	No disability	With disability
All doctoral degree recipients with definite plans (number)	11,601	11,400	201
United States	96.4	96.4	95.5
Academic employment	22.3	22.2	25.9
Industry employment	22.1	22.2	16.9
Postdoctoral study	39.3	39.3	37.8
Other	12.7	12.6	14.9
Abroad	3.3	3.3	3.5
Location unknown	0.3	0.3	1.0

NOTE: Definite postgraduate plans defined by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* with *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study*. "Other" includes government, self-employed, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE H-1. Employed bachelor's or higher degree recipients, by occupation, sex, race/ethnicity, country of birth, and disability status: 2000

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Occupation, sex, race/ethnicity, country of birth, and disability status	Number	Percent distribution
All occupations	35,706,800	100.0
Male	19,234,500	53.9
Female	16,472,300	46.1
White only	28,919,900	81.0
U.S. born	27,278,400	76.4
Foreign born	1,641,500	4.6
Asian only	2,287,100	6.4
U.S. born	365,700	1.0
Foreign born	1,921,500	5.4
Black only	2,290,300	6.4
U.S. born	1,999,900	5.6
Foreign born	290,400	0.8
Hispanic	1,550,000	4.3
U.S. born	910,600	2.5
Foreign born	639,400	1.8
American Indian/Alaska Native only	113,100	0.3
U.S. born	109,700	0.3
Foreign born	3,500	0.0
Native Hawaiian only	26,300	0.1
U.S. born	21,000	0.1
Foreign born	5,200	0.0
Other race/ethnicity	51,400	0.1
U.S. born	26,900	0.1
Foreign born	24,500	0.1
Two or more races	468,800	1.3
U.S. born	284,000	0.8
Foreign born	184,800	0.5
People without disabilities	32,537,600	91.1
People with disabilities	3,169,200	8.9
Science and engineering occupations	3,633,300	100.0
Male	2,710,000	74.6
Female	923,300	25.4
White only	2,774,600	76.4
U.S. born	2,517,700	69.2
Foreign born	256,900	7.1
Asian only	509,900	14.0
U.S. born	57,200	1.6
Foreign born	452,700	12.4
Black only	158,200	4.4
U.S. born	130,800	3.6
Foreign born	27,400	0.8
Hispanic	124,900	3.4
U.S. born	74,400	2.0
Foreign born	50,500	1.4
American Indian/Alaska Native only	9,700	0.3
U.S. born	9,400	0.3
Foreign born	300	0.0
Native Hawaiian only	1,400	0.0
U.S. born	1,300	0.0
Foreign born	100	0.0

TABLE H-1. Employed bachelor's or higher degree recipients, by occupation, sex, race/ethnicity, country of birth, and disability status: 2000

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Occupation, sex, race/ethnicity, country of birth, and disability status	Number	Percent distribution
Other race/ethnicity	6,000	0.2
U.S. born	2,800	0.1
Foreign born	3,200	0.1
Two or more races	48,500	1.3
U.S. born	25,300	0.7
Foreign born	23,200	0.6
People without disabilities	3,376,300	92.9
People with disabilities	257,000	7.1
Science occupations	2,345,700	100.0
Male	1,562,200	66.6
Female	783,500	33.4
White only	1,754,300	74.8
U.S. born	1,586,200	67.6
Foreign born	168,200	7.2
Asian only	351,400	15.0
U.S. born	35,700	1.5
Foreign born	315,700	13.5
Black only	115,400	4.9
U.S. born	97,800	4.2
Foreign born	17,600	0.8
Hispanic	81,800	3.5
U.S. born	50,800	2.2
Foreign born	31,000	1.3
American Indian/Alaska Native only	6,100	0.3
U.S. born	5,800	0.2
Foreign born	300	0.0
Native Hawaiian only	800	0.0
U.S. born	700	0.0
Foreign born	100	0.0
Other race/ethnicity	4,200	0.2
U.S. born	2,300	0.1
Foreign born	1,900	0.1
Two or more races	31,600	1.3
U.S. born	17,300	0.7
Foreign born	14,300	0.6
People without disabilities	2,176,200	93.0
People with disabilities	169,500	7.3
Computer and mathematical occupations	1,484,900	100.0
Male	1,058,300	71.3
Female	426,700	28.7
White only	1,073,200	72.3
U.S. born	978,700	65.9
Foreign born	94,400	6.4
Asian only	250,000	16.8
U.S. born	24,700	1.7
Foreign born	225,300	15.2

TABLE H-1. Employed bachelor's or higher degree recipients, by occupation, sex, race/ethnicity, country of birth, and disability status: 2000

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Occupation, sex, race/ethnicity, country of birth, and disability status	Number	Percent distribution
Black only	82,900	5.6
U.S. born	70,800	4.8
Foreign born	12,100	0.8
Hispanic	52,400	3.5
U.S. born	35,300	2.4
Foreign born	17,100	1.2
American Indian/Alaska Native only	3,200	0.2
U.S. born	3,100	0.2
Foreign born	100	0.0
Native Hawaiian only	600	0.0
U.S. born	500	0.0
Foreign born	100	0.0
Other race/ethnicity	2,500	0.2
U.S. born	1,100	0.1
Foreign born	1,400	0.1
Two or more races	20,300	1.4
U.S. born	10,500	0.7
Foreign born	9,800	0.7
People without disabilities	1,376,400	92.7
People with disabilities	108,500	7.3
Life and physical science occupations	547,300	100.0
Male	364,300	66.6
Female	183,000	33.4
White only	411,200	75.1
U.S. born	353,700	64.6
Foreign born	57,500	10.5
Asian only	88,800	16.2
U.S. born	8,100	1.5
Foreign born	80,700	14.7
Black only	18,800	3.4
U.S. born	14,800	2.7
Foreign born	4,000	0.7
Hispanic	17,800	3.2
U.S. born	8,700	1.6
Foreign born	9,100	1.7
American Indian/Alaska Native only	2,000	0.4
U.S. born	1,800	0.3
Foreign born	200	0.0
Native Hawaiian only	300	0.1
U.S. born	300	0.1
Foreign born	0	0.0
Other race/ethnicity	800	0.2
U.S. born	200	0.0
Foreign born	600	0.1
Two or more races	7,600	1.4
U.S. born	3,900	0.7
Foreign born	3,700	0.7
People without disabilities	508,800	93.0
People with disabilities	38,500	7.0

TABLE H-1. Employed bachelor's or higher degree recipients, by occupation, sex, race/ethnicity, country of birth, and disability status: 2000

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Occupation, sex, race/ethnicity, country of birth, and disability status	Number	Percent distribution
Psychology occupations	175,200	100.0
Male	60,300	34.4
Female	114,800	65.6
White only	156,200	89.2
U.S. born	148,400	84.7
Foreign born	7,800	4.5
Asian only	2,400	1.4
U.S. born	1,100	0.6
Foreign born	1,200	0.7
Black only	6,900	3.9
U.S. born	6,100	3.5
Foreign born	800	0.5
Hispanic	6,600	3.8
U.S. born	3,500	2.0
Foreign born	3,000	1.7
American Indian/Alaska Native only	900	0.5
U.S. born	900	0.5
Foreign born	0	0.0
Native Hawaiian only	0	0.0
U.S. born	0	0.0
Foreign born	0	0.0
Other race/ethnicity	300	0.2
U.S. born	300	0.2
Foreign born	0	0.0
Two or more races	1,900	1.1
U.S. born	1,800	1.0
Foreign born	100	0.1
People without disabilities	161,400	92.2
People with disabilities	13,700	7.8
Social science occupations	138,300	100.0
Male	79,300	57.3
Female	59,100	42.7
White only	113,700	82.2
U.S. born	105,300	76.1
Foreign born	8,400	6.1
Asian only	10,300	7.4
U.S. born	1,800	1.3
Foreign born	8,500	6.1
Black only	6,800	4.9
U.S. born	6,100	4.4
Foreign born	700	0.5
Hispanic	5,100	3.7
U.S. born	3,400	2.5
Foreign born	1,700	1.2
American Indian/Alaska Native only	100	0.1
U.S. born	100	0.1
Foreign born	0	0.0
Native Hawaiian only	0	0.0
U.S. born	0	0.0
Foreign born	0	0.0

TABLE H-1. Employed bachelor's or higher degree recipients, by occupation, sex, race/ethnicity, country of birth, and disability status: 2000

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Occupation, sex, race/ethnicity, country of birth, and disability status	Number	Percent distribution
Other race/ethnicity	600	0.4
U.S. born	600	0.4
Foreign born	0	0.0
Two or more races	1,800	1.3
U.S. born	1,100	0.8
Foreign born	700	0.5
People without disabilities	129,500	93.6
People with disabilities	8,800	6.4
Engineering occupations	1,287,600	100.0
Male	1,147,800	89.1
Female	139,800	10.9
White only	1,020,300	79.2
U.S. born	931,500	72.3
Foreign born	88,700	6.9
Asian only	158,500	12.3
U.S. born	21,500	1.7
Foreign born	137,000	10.6
Black only	42,800	3.3
U.S. born	33,000	2.6
Foreign born	9,800	0.8
Hispanic	43,100	3.3
U.S. born	23,600	1.8
Foreign born	19,500	1.5
American Indian/Alaska Native only	3,600	0.3
U.S. born	3,600	0.3
Foreign born	0	0.0
Native Hawaiian only	600	0.0
U.S. born	600	0.0
Foreign born	0	0.0
Other race/ethnicity	1,800	0.1
U.S. born	500	0.0
Foreign born	1,300	0.1
Two or more races	16,900	1.3
U.S. born	8,000	0.6
Foreign born	8,900	0.7
People without disabilities	1,200,100	93.2
People with disabilities	87,500	6.8
Non-science and engineering occupations	32,073,500	100.0
Male	16,524,600	51.5
Female	15,548,900	48.5
White only	26,145,300	81.5
U.S. born	24,760,600	77.2
Foreign born	1,384,600	4.3
Asian only	1,777,200	5.5
U.S. born	308,500	1.0
Foreign born	1,468,700	4.6



TABLE H-1. Employed bachelor's or higher degree recipients, by occupation, sex, race/ethnicity, country of birth, and disability status: 2000

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Occupation, sex, race/ethnicity, country of birth, and disability status	Number	Percent distribution
Black only	2,132,100	6.6
U.S. born	1,869,100	5.8
Foreign born	263,000	0.8
Hispanic	1,425,000	4.4
U.S. born	836,200	2.6
Foreign born	588,900	1.8
American Indian/Alaska Native only	103,400	0.3
U.S. born	100,200	0.3
Foreign born	3,200	0.0
Native Hawaiian only	24,900	0.1
U.S. born	19,700	0.1
Foreign born	5,200	0.0
Other race/ethnicity	45,400	0.1
U.S. born	24,200	0.1
Foreign born	21,300	0.1
Two or more races	420,300	1.3
U.S. born	258,700	0.8
Foreign born	161,600	0.5
People without disabilities	29,161,300	90.9
People with disabilities	2,912,200	9.1

NOTE: Table limited to those with a bachelor's or higher degree. Data based on a 1 percent sample of the U.S. population. Science and engineering occupations do not include postsecondary teachers. Numbers are rounded to nearest hundred. Individuals were classified as having a disability if they had a response of "yes" to a sensory, physical, or mental disability or they had responded that a disability limits but does not prevent work, prevents work, or causes difficulty working.

SOURCE: U.S. Census Bureau, Census 2000, 1% Census Public Use Microdata Sample files.



TABLE H-2. Employed persons 16 years and older, by detailed occupation: Selected years, 1983–2001 annual averages

(Thousands)

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Occupation	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Geologists and geodesists	65	58	S	52	56	54	60	59	56	50
Medical scientists	S	S	S	S	S	83	61	77	100	95
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	63	S
Social scientists and urban planners	261	286	316	374	385	398	453	441	460	454
Economists	98	102	113	122	116	117	148	135	141	135
Psychologists	135	150	171	210	229	239	260	256	266	268
Sociologists	S	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	606	643	661	709	774	777	846	869	978	1,003
Agriculture and forestry	S	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	50	S	54	50	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S	S
Other	334	376	412	448	479	481	535	554	645	698
Teachers, except postsecondary (college and university)	3,365	3,523	3,587	3,936	4,010	4,384	4,507	4,798	5,277	5,473
Elementary school	1,350	1,360	1,329	1,489	1,514	1,660	1,738	1,872	2,072	2,216
Prekindergarten and kindergarten	299	329	389	431	446	504	498	574	600	651
Secondary school	1,209	1,175	1,172	1,220	1,214	1,231	1,232	1,173	1,342	1,304
Special education	81	206	216	257	280	284	311	384	369	353
Other	425	454	480	539	556	705	729	796	893	949
Other	3,423	3,661	3,955	4,164	4,278	4,382	4,730	4,981	5,364	5,440
Technical, sales, and administrative support	31,265	33,231	35,082	36,127	36,318	37,058	37,417	38,309	38,921	39,044
Administrative support, including clerical	16,395	17,309	18,256	18,416	18,452	18,677	18,389	18,361	18,448	18,503
Sales	11,818	12,667	13,480	14,065	14,052	14,342	15,119	15,734	16,118	16,044
Technicians and related support	3,053	3,255	3,346	3,645	3,814	4,039	3,909	4,214	4,355	4,497
Engineering and related technologists and technicians	822	904	896	937	953	875	880	960	973	1,007
Drafting	273	297	283	296	266	246	229	222	235	220
Electrical and electronic technicians	260	304	305	326	352	299	334	391	437	475
Industrial engineering technicians	S	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	64	81	70	68	73	62	76	67	68
Other	221	219	214	228	244	241	234	243	215	216

TABLE H-2. Employed persons 16 years and older, by detailed occupation: Selected years, 1983–2001 annual averages

(Thousands)

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Occupation	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Health technologists and technicians	1,111	1,115	1,142	1,276	1,382	1,530	1,648	1,693	1,701	1,807
Clinical laboratory technologists and technicians	255	295	259	308	319	319	374	388	338	355
Dental hygienists	66	56	74	80	84	76	95	107	106	116
Health record technologists and technicians	S	52	58	72	67	64	S	S	S	S
Licensed practical nurses	443	402	406	414	443	424	399	408	357	374
Radiologic technicians	101	121	127	124	140	147	154	148	167	167
Other	200	189	218	279	329	501	607	624	715	777
Science technicians	202	211	204	217	243	264	276	287	293	299
Biological	52	54	59	59	65	86	96	106	106	124
Chemical	82	88	73	74	89	74	84	85	79	70
Other	68	70	72	84	89	104	96	96	108	105
Technicians, except health, engineering, and sciences	917	1,026	1,104	1,216	1,237	1,370	1,106	1,275	1,388	1,384
Other occupations	54,324	57,043	59,106	60,591	60,102	60,758	62,325	64,000	64,882	65,099

NEC not elsewhere classified

S Suppressed because fewer than 50,000 weighted cases

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1983–2001.



TABLE H-3. Employed females 16 years and older, by detailed occupation: Selected years, 1983–2001 annual averages

(Thousands)

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Occupation	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Social scientists and urban planners	122	122	154	182	205	227	246	242	269	263
Economists	S	S	S	51	53	56	75	71	72	71
Psychologists	77	76	93	113	138	153	154	152	172	165
Sociologists	S	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	220	226	245	275	315	329	382	371	414	435
Agriculture and forestry	S	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S	S
Other	135	144	173	198	215	221	261	260	301	317
Teachers, except postsecondary (college and university)	2,386	2,573	2,642	2,884	2,977	3,294	3,365	3,632	3,952	4,098
Elementary school	1,125	1,142	1,134	1,262	1,299	1,425	1,461	1,571	1,736	1,828
Prekindergarten and kindergarten	294	325	383	421	441	492	489	561	591	637
Secondary school	627	635	636	641	663	708	702	685	772	763
Special education	67	175	181	217	235	238	262	318	311	304
Other	274	296	308	343	338	431	451	497	542	566
Other	1,399	1,569	1,742	1,873	1,944	2,023	2,280	2,423	2,699	2,737
Technical, sales, and administrative support	20,187	21,507	22,704	23,440	23,466	23,641	24,107	24,549	24,842	24,877
Administrative support, including clerical	13,100	13,882	14,614	14,740	14,717	14,679	14,613	14,469	14,512	14,553
Sales	5,617	6,088	6,465	6,941	6,872	6,924	7,485	7,894	8,069	7,924
Technicians and related support	1,471	1,537	1,624	1,759	1,877	2,039	2,009	2,186	2,261	2,400
Engineering and related technologists and technicians	151	163	153	180	176	156	157	178	185	214
Drafting occupations	S	52	S	61	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	S	S	S	S	56	63	93
Industrial engineering technicians	S	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S	S
Other	62	63	57	60	70	60	65	74	68	63
Health technologists and technicians	937	929	962	1,051	1,142	1,237	1,314	1,357	1,380	1,477
Clinical laboratory technologists and technicians	194	223	204	229	241	242	268	295	266	279
Dental hygienists	65	56	72	80	83	75	94	105	105	114
Health record technologists and technicians	S	S	51	66	63	57	S	S	S	S
Licensed practical nurses	430	390	393	397	421	401	380	384	339	353
Radiologic technicians	72	89	90	94	104	103	114	103	124	118
Other	134	124	151	185	231	360	442	453	529	597

TABLE H-3. Employed females 16 years and older, by detailed occupation: Selected years, 1983–2001 annual averages

(Thousands)

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Occupation	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Science technicians	59	70	64	64	72	99	98	113	119	133
Biological	S	S	S	S	S	51	S	61	68	78
Chemical	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S
Technicians, except health, engineering, and sciences	324	374	444	464	487	546	441	538	576	576
Other occupations	15,223	15,822	16,557	17,166	16,971	17,171	17,920	18,428	18,804	18,868

NEC not elsewhere classified

S suppressed because fewer than 50,000 weighted cases

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1983–2001.





TABLE H-4. Employed males 16 years and older, by detailed occupation: Selected years, 1983–2001 annual averages

(Thousands)

Page 2 of 3

Occupation	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Social scientists and urban planners	139	164	162	192	180	171	207	199	191	191
Economists	61	67	67	72	64	61	74	65	69	64
Psychologists	58	75	77	96	91	86	106	104	93	102
Sociologists	S	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	386	417	415	435	460	447	464	498	563	568
Agriculture and forestry	S	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S	S
Postsecondary, other	183	218	226	238	251	250	268	287	333	369
Teachers, except postsecondary (college and university)	979	950	945	1,052	1,034	1,090	1,142	1,166	1,325	1,375
Elementary school	226	218	196	227	214	234	277	301	336	387
Prekindergarten and kindergarten	S	S	S	S	S	S	S	S	S	S
Secondary school	583	540	536	579	550	523	530	487	570	541
Special education	S	S	S	S	S	S	S	66	58	S
Other	151	157	172	196	218	274	278	299	352	383
Other	2,023	2,092	2,212	2,291	2,334	2,360	2,452	2,558	2,664	2,703
Technical, sales, and administrative support	11,078	11,725	12,378	12,687	12,852	13,417	13,310	13,760	14,079	14,167
Administrative support, including clerical	3,295	3,427	3,642	3,676	3,735	3,999	3,776	3,892	3,936	3,950
Sales	6,201	6,579	7,015	7,124	7,180	7,418	7,634	7,840	8,049	8,120
Technicians and related support	1,582	1,719	1,721	1,887	1,937	2,000	1,900	2,028	2,094	2,097
Engineering and related technologists and technicians	671	741	742	757	778	719	723	781	787	793
Drafting	225	246	238	235	220	201	187	185	192	176
Electrical and electronic technicians	228	264	261	280	304	252	297	335	374	383
Industrial engineering technicians	S	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	58	76	62	61	69	53	68	59	59
Other	159	156	157	167	174	181	169	170	147	153
Health technologists and technicians	174	185	179	225	240	293	334	336	320	330
Clinical laboratory technologists and technicians	61	72	55	79	78	77	106	94	73	75
Dental hygienists	S	S	S	S	S	S	S	S	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	S
Licensed practical nurses	S	S	S	S	S	S	S	S	S	S
Radiologic technicians	S	S	S	S	S	S	S	S	S	50
Other	66	65	66	94	98	141	165	170	186	181

TABLE H-4. Employed males 16 years and older, by detailed occupation: Selected years, 1983–2001 annual averages

(Thousands)

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Occupation	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Science technicians	143	141	140	153	170	165	178	173	174	166
Biological	S	S	S	S	S	S	S	S	S	S
Chemical	60	65	55	58	66	55	66	65	56	51
Other	51	S	51	58	65	75	64	63	79	69
Technicians, except health, engineering, and sciences	593	652	660	752	750	824	665	737	813	808
Other occupations	39,100	41,221	42,551	43,424	43,130	43,586	44,405	45,573	46,077	46,230

NEC not elsewhere classified

S suppressed because fewer than 50,000 weighted cases

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1983–2001.

TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

(Thousands) Page 1 of 26

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations	123,060	124,900	126,708	129,558	131,463	133,488	136,891	136,933	136,485
Managerial and professional specialty	33,847	35,318	36,497	37,686	38,937	40,467	41,337	42,271	42,482
Executive, administrative, and managerial	16,312	17,186	17,746	18,440	19,054	19,584	19,968	20,506	20,561
Professional specialty	17,536	18,132	18,752	19,245	19,883	20,883	21,368	21,765	21,921
Engineers, architects, and surveyors	2,030	2,117	2,140	2,220	2,224	2,291	2,357	2,362	2,249
Architects	141	163	160	169	158	194	218	217	197
Engineers	1,866	1,934	1,960	2,036	2,052	2,081	2,120	2,121	2,028
Aerospace	75	78	80	87	86	79	77	86	90
Agricultural	S	S	S	S	S	S	S	S	S
Chemical	56	80	95	92	69	82	85	75	77
Civil	240	231	243	248	296	287	292	296	267
Electrical and electronic	556	611	601	652	629	639	738	740	677
Industrial	245	250	257	258	262	260	246	258	235
Marine and naval architects	S	S	S	S	S	S	S	S	S
Mechanical	341	330	350	352	335	340	345	341	301
Metallurgical and materials	S	S	S	S	S	S	S	S	S
Mining	S	S	S	S	S	S	S	S	S
Nuclear	S	S	S	S	S	S	S	S	S
Petroleum	S	S	S	S	S	S	S	S	S
Other	255	267	252	258	276	303	259	257	310
Surveyors and mapping scientists	S	S	S	S	S	S	S	S	S
Health assessment and treating	2,708	2,762	2,812	2,886	2,898	3,019	3,009	3,112	3,267
Dietitians	86	94	105	101	90	92	98	101	74
Pharmacists	182	170	184	200	180	216	214	220	231
Physicians' assistants	53	55	63	65	68	67	73	82	89
Registered nurses	1,956	1,977	1,986	2,065	2,032	2,128	2,142	2,202	2,311
Therapists	430	466	474	455	528	517	482	508	562
Occupational	50	52	64	61	71	71	55	63	78
Physical	106	130	118	110	134	144	147	156	167
Respiratory	98	94	96	85	103	90	78	89	97
Speech	92	91	97	102	105	99	102	112	117
Other	84	101	99	97	114	114	99	89	102
Health diagnosing	932	1,002	960	1,027	1,083	1,071	1,066	1,115	1,176
Dentists	148	155	137	138	155	173	171	169	180
Optometrists	S	S	S	S	S	S	S	S	S
Physicians	628	693	667	724	740	720	742	781	825
Podiatrists	S	S	S	S	S	S	S	S	S
Veterinarians	61	59	54	S	58	53	56	56	S
Other	55	51	54	69	73	74	57	63	73
Mathematical and computer scientists	1,186	1,195	1,345	1,494	1,747	1,847	2,109	2,125	2,030
Actuaries	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	916	933	1,093	1,236	1,471	1,549	1,829	1,835	1,742
Operations and systems researchers and analysts	222	217	209	201	212	241	228	233	238
Statisticians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Natural scientists	535	519	536	529	519	578	576	590	545
Agricultural and food scientists	S	S	S	S	S	S	53	S	51
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S
Biological and life scientists	120	110	116	106	104	109	116	127	119
Chemists, except biochemists	144	140	149	144	133	136	157	165	130
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S
Geologists and geodesists	57	60	S	59	63	56	S	S	S
Medical scientists	62	61	73	77	83	100	87	101	89
Physicists and astronomers	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	63	55	S	S

TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Social scientists and urban planners	440	453	438	441	430	460	454	457	457
Economists	106	148	148	135	137	141	141	135	123
Psychologists	280	260	245	256	232	266	267	271	277
Sociologists	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	838	846	889	869	919	978	980	1,027	1,015
Agriculture and forestry	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	51	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S
Other	546	535	584	554	589	646	645	715	697
Teachers, except postsecondary (college and university)	4,330	4,507	4,724	4,798	4,962	5,277	5,393	5,498	5,652
Elementary school	1,634	1,738	1,846	1,872	1,951	2,072	2,191	2,225	2,341
Prekindergarten and kindergarten	496	498	543	574	586	600	630	656	647
Secondary school	1,197	1,232	1,228	1,173	1,225	1,342	1,333	1,318	1,289
Special education	308	311	340	384	381	369	365	362	374
Other	696	729	767	796	819	893	875	936	1,001
Other	4,537	4,730	4,908	4,981	5,099	5,364	5,425	5,480	5,530
Technical, sales, and administrative support	37,306	37,417	37,683	38,309	38,521	38,921	39,815	39,469	38,947
Administrative support, including clerical	18,620	18,389	18,353	18,361	18,410	18,448	18,917	18,710	18,184
Sales	14,817	15,119	15,404	15,734	15,850	16,118	16,470	16,201	16,254
Technicians and related support	3,869	3,909	3,926	4,214	4,261	4,355	4,427	4,558	4,509
Engineering and related technologists and technicians	916	880	919	960	970	973	1,010	1,025	980
Drafting	239	229	233	222	228	235	219	225	247
Electrical and electronic technicians	316	334	361	391	431	437	472	486	433
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	68	62	73	76	71	67	79	68	65
Other	270	234	230	243	212	215	216	219	209
Science technicians	266	276	245	287	285	293	273	295	291
Biological	89	96	79	106	108	106	109	127	131
Chemical	77	84	78	85	75	79	71	69	64
Other	100	96	87	96	102	108	93	99	96
Health technologists and technicians	1,590	1,648	1,605	1,693	1,733	1,701	1,742	1,831	1,879
Clinical lab technologists and technicians	341	374	376	388	359	338	348	363	384
Dental hygienists	97	95	94	107	112	106	112	111	133
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	397	399	395	408	381	357	378	383	382
Radiologic technicians	154	154	135	148	170	167	163	168	182
Other	569	607	588	624	694	715	724	788	777



TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Geologists and geodesists	S	S	S	S	S	S	S	S	S
Medical scientists	S	S	S	S	S	S	S	S	54
Other	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	236	246	249	242	235	269	267	262	272
Economists	50	75	81	71	64	72	75	70	68
Psychologists	164	154	150	152	144	172	172	165	182
Sociologists	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	356	382	387	371	389	414	426	439	433
Agriculture and forestry	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S
Other	248	261	285	260	267	299	306	321	310
Teachers, except postsecondary (college and university)	3,244	3,365	3,517	3,632	3,737	3,952	4,068	4,125	4,242
Elementary school	1,398	1,461	1,538	1,571	1,639	1,736	1,827	1,836	1,942
Prekindergarten and kindergarten	486	489	533	561	573	591	620	643	632
Secondary school	665	702	686	685	697	772	773	775	749
Special education	258	262	288	318	312	311	301	310	320
Other	437	451	472	497	516	542	548	560	599
Other	2,135	2,280	2,414	2,423	2,563	2,699	2,766	2,769	2,809
Technical, sales, and administrative support	23,984	24,107	24,194	24,549	24,728	24,842	25,388	25,160	24,680
Administrative support, including clerical	14,697	14,613	14,511	14,469	14,469	14,512	14,920	14,719	14,270
Sales	7,273	7,485	7,622	7,894	7,975	8,069	8,175	8,021	7,969
Technicians and related support	2,013	2,009	2,061	2,186	2,285	2,261	2,293	2,421	2,441
Engineering and related technologists and technicians	179	157	183	178	202	185	207	215	204
Drafting	S	S	S	S	S	S	51	S	53
Electrical and electronic technicians	S	S	S	56	73	63	81	90	83
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S
Other	73	65	77	74	71	68	66	66	58
Science technicians	98	98	92	113	123	119	114	134	138
Biological	S	S	S	61	74	68	65	79	78
Chemical	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Health technologists and technicians	1,298	1,314	1,293	1,357	1,414	1,380	1,402	1,489	1,531
Clinical lab technologists and technicians	263	268	275	295	282	266	260	284	294
Dental hygienists	97	94	93	105	111	105	110	108	131



TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S
Biological and life scientists	76	75	71	59	64	61	64	70	66
Chemists, except biochemists	91	95	106	108	89	99	109	115	91
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S
Geologists and geodesists	S	51	S	S	55	53	S	S	S
Medical scientists	S	S	S	S	S	55	S	52	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	204	207	189	199	195	191	187	195	184
Economists	56	74	67	65	74	69	66	65	55
Psychologists	116	106	94	104	88	93	95	106	94
Sociologists	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	482	464	502	498	530	563	553	588	582
Agriculture and forestry	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S
Other	296	275	298	297	323	344	341	393	386
Teachers, except postsecondary (college and university)	1,087	1,142	1,207	1,166	1,225	1,325	1,325	1,373	1,411
Elementary school	236	277	309	301	312	336	365	389	399
Prekindergarten and kindergarten	S	S	S	S	S	S	S	S	S
Secondary school	531	530	542	487	528	570	560	544	540
Special education	50	S	52	66	68	58	64	51	54
Other	260	278	295	299	303	352	327	376	402
Other	2,401	2,452	2,494	2,558	2,536	2,664	2,657	2,711	2,721
Technical, sales, and administrative support	13,322	13,310	13,489	13,760	13,792	14,079	14,427	14,309	14,267
Administrative support, including clerical	3,923	3,776	3,842	3,892	3,941	3,936	3,997	3,991	3,914
Sales	7,543	7,634	7,782	7,840	7,875	8,049	8,295	8,180	8,285
Technicians and related support	1,856	1,900	1,865	2,028	1,976	2,094	2,135	2,137	2,068
Engineering and related technologists and technicians	737	723	736	781	768	787	802	810	777
Drafting	191	187	185	185	184	192	167	180	193
Electrical and electronic technicians	268	297	315	335	358	374	392	396	351
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	63	53	63	68	62	59	73	58	59
Other	198	169	153	170	141	147	150	153	150



TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

(Thousands)

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Science technicians	168	178	153	173	162	174	159	161	154
Biological	S	S	S	S	S	S	S	S	53
Chemical	58	66	57	65	59	56	56	51	S
Other	69	64	62	63	68	79	59	63	58
Health technologists and technicians	292	334	312	336	319	320	340	342	347
Clinical lab technologists and technicians	78	106	100	94	77	73	87	79	90
Dental hygienists	S	S	S	S	S	S	S	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	S	S	S	S	S	S	S	S	S
Radiologic technicians	S	S	S	S	52	S	51	50	S
Other	153	165	150	170	173	186	174	187	187
Technicians, except health, engineering, and sciences	659	665	664	737	728	813	833	823	790
Other occupations	35,544	35,688	35,974	36,676	37,034	36,921	38,111	37,762	37,600
White	105,190	106,490	107,808	109,856	110,931	112,235	114,424	114,430	114,013
Managerial and professional specialty	30,045	31,323	32,116	33,089	34,063	35,125	35,476	36,242	36,405
Executive, administrative, and managerial	14,605	15,398	15,807	16,420	16,903	17,235	17,462	17,880	17,944
Professional specialty	15,439	15,924	16,309	16,669	17,160	17,890	18,014	18,362	18,460
Engineers, architects, and surveyors	1,827	1,903	1,870	1,934	1,942	1,994	1,967	1,998	1,919
Architects	131	153	145	154	147	181	197	193	179
Engineers	1,677	1,732	1,705	1,766	1,781	1,797	1,754	1,782	1,716
Aerospace	70	72	74	79	71	67	67	78	83
Agricultural	S	S	S	S	S	S	S	S	S
Chemical	50	69	71	74	61	78	74	61	63
Civil	216	203	207	222	263	241	239	244	220
Electrical and electronic	488	537	516	540	519	523	573	598	549
Industrial	221	225	237	236	233	238	217	227	210
Marine and naval architects	S	S	S	S	S	S	S	S	S
Mechanical	311	301	307	306	298	309	302	302	268
Metallurgical and materials	S	S	S	S	S	S	S	S	S
Mining	S	S	S	S	S	S	S	S	S
Nuclear	S	S	S	S	S	S	S	S	S
Petroleum	S	S	S	S	S	S	S	S	S
Other	230	243	218	226	240	255	214	211	262
Surveyors and mapping scientists	S	S	S	S	S	S	S	S	S
Health assessment and treating	2,345	2,392	2,413	2,473	2,460	2,540	2,531	2,605	2,694
Dietitians	70	73	70	69	68	64	73	73	58
Pharmacists	163	147	154	169	155	173	175	184	180
Physicians' assistants	S	S	61	60	60	61	66	73	77
Registered nurses	1,685	1,713	1,697	1,764	1,715	1,789	1,794	1,829	1,892
Therapists	380	411	430	411	462	455	424	446	486
Occupational	S	S	60	57	64	65	52	57	70
Physical	96	121	107	99	116	124	125	138	148
Respiratory	83	76	85	74	82	68	68	75	78
Speech	86	88	95	97	100	96	97	106	109
Other	71	77	84	85	99	103	82	70	81
Health diagnosing	804	874	827	868	912	882	859	901	940
Dentists	133	143	130	125	140	160	149	141	145
Optometrists	S	S	S	S	S	S	S	S	S
Physicians	526	583	555	590	598	557	567	607	639
Podiatrists	S	S	S	S	S	S	S	S	S
Veterinarians	59	57	S	S	56	51	54	53	S
Other	50	S	53	65	68	68	54	57	69

TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Mathematical and computer scientists	1,022	1,032	1,112	1,228	1,430	1,488	1,639	1,578	1,559
Actuaries	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	776	812	893	1,009	1,190	1,238	1,404	1,343	1,330
Operations and systems researchers and analysts	204	184	180	171	182	202	193	189	187
Statisticians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Natural scientists	471	447	455	433	441	490	476	482	451
Agricultural and food scientists	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S
Biological and life scientists	97	87	94	89	90	92	95	105	97
Chemists, except biochemists	127	123	125	115	105	106	115	128	96
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S
Geologists and geodesists	52	57	S	57	62	54	S	S	S
Medical scientists	52	S	52	S	60	70	64	71	68
Physicists and astronomers	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	58	54	S	S
Social scientists and urban planners	396	402	386	389	386	405	401	407	397
Economists	97	135	136	117	125	126	119	118	105
Psychologists	251	229	211	228	204	231	243	244	243
Sociologists	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	726	730	758	737	774	845	824	849	844
Agriculture and forestry	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S
Other	469	464	495	475	504	547	541	592	578
Teachers, except postsecondary (college and university)	3,842	3,985	4,170	4,205	4,340	4,617	4,686	4,803	4,900
Elementary school	1,436	1,530	1,633	1,624	1,696	1,809	1,894	1,943	2,026
Prekindergarten and kindergarten	422	412	460	490	487	503	531	538	522
Secondary school	1,081	1,120	1,113	1,054	1,094	1,210	1,172	1,189	1,166
Special education	282	276	288	335	335	329	323	320	328
Other	621	648	676	702	728	766	766	813	857
Other	4,007	4,159	4,318	4,401	4,476	4,629	4,631	4,740	4,758
Technical, sales, and administrative support	32,232	32,184	32,177	32,624	32,490	32,779	33,346	32,969	32,665
Administrative support, including clerical	15,696	15,457	15,323	15,323	15,229	15,201	15,497	15,333	14,931
Sales	13,235	13,366	13,519	13,730	13,704	13,956	14,227	13,889	14,018

TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Technicians and related support	3,301	3,361	3,334	3,571	3,557	3,622	3,621	3,747	3,716
Engineering and related technologists and technicians	800	770	789	841	820	813	833	855	830
Drafting	220	209	212	200	212	206	192	208	224
Electrical and electronic technicians	260	280	306	341	349	352	382	399	349
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	63	55	64	70	67	61	70	63	64
Other	236	206	189	205	171	178	172	162	175
Science technicians	223	240	204	243	240	244	232	250	247
Biological	73	85	68	88	96	93	95	110	114
Chemical	68	73	64	70	60	64	63	60	53
Other	83	82	72	85	84	87	73	80	80
Health technologists and technicians	1,303	1,369	1,334	1,393	1,404	1,372	1,393	1,464	1,518
Clinical lab technologists and technicians	267	297	284	287	273	243	257	269	285
Dental hygienists	96	92	93	105	106	103	109	106	127
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	310	308	329	335	304	279	283	278	293
Radiologic technicians	136	141	119	131	148	148	143	147	163
Other	469	516	495	519	559	585	588	651	632
Technicians, except health, engineering, and sciences	975	981	1,008	1,094	1,092	1,193	1,163	1,178	1,122
Other occupations	42,912	42,983	43,514	44,143	44,378	44,333	45,602	45,219	44,943
Female	47,738	48,344	48,920	49,859	50,327	51,096	52,136	52,218	52,164
Managerial and professional specialty	14,223	14,808	15,413	15,978	16,428	17,073	17,396	17,890	18,134
Executive, administrative, and managerial	6,164	6,452	6,781	7,124	7,323	7,527	7,702	8,029	8,062
Professional specialty	8,059	8,356	8,632	8,855	9,105	9,546	9,694	9,862	10,072
Engineers, architects, and surveyors	159	171	163	187	217	201	209	213	202
Architects	S	S	S	S	S	S	S	S	S
Engineers	136	140	136	158	190	172	164	167	165
Aerospace	S	S	S	S	S	S	S	S	S
Agricultural	S	S	S	S	S	S	S	S	S
Chemical	S	S	S	S	S	S	S	S	S
Civil	S	S	S	S	S	S	S	S	S
Electrical and electronic	S	S	S	S	S	S	50	51	S
Industrial	S	S	S	S	S	S	S	S	S
Marine and naval architects	S	S	S	S	S	S	S	S	S
Mechanical	S	S	S	S	S	S	S	S	S
Metallurgical and materials	S	S	S	S	S	S	S	S	S
Mining	S	S	S	S	S	S	S	S	S
Nuclear	S	S	S	S	S	S	S	S	S
Petroleum	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Surveyors and mapping scientists	S	S	S	S	S	S	S	S	S
Health assessment and treating	2,020	2,061	2,069	2,131	2,106	2,178	2,161	2,242	2,341
Dietitians	65	70	65	63	59	55	67	67	53
Pharmacists	62	51	62	70	63	74	73	86	92
Physicians' assistants	S	S	S	S	S	S	S	S	S
Registered nurses	1,581	1,600	1,585	1,647	1,596	1,666	1,662	1,700	1,764
Therapists	287	315	323	313	356	351	323	346	387
Occupational	S	S	52	S	54	59	S	54	63
Physical	65	86	66	66	85	91	80	94	106
Respiratory	50	S	51	S	50	S	S	S	S
Speech	82	81	88	92	93	89	92	97	103
Other	52	58	65	67	74	74	62	55	67

TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Health diagnosing	165	187	193	205	226	196	208	231	256
Dentists	S	S	S	S	S	S	S	S	S
Optometrists	S	S	S	S	S	S	S	S	S
Physicians	111	132	134	144	152	126	140	156	184
Podiatrists	S	S	S	S	S	S	S	S	S
Veterinarians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	332	326	327	361	400	463	512	465	469
Actuaries	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	234	238	238	278	310	353	408	356	361
Operations and systems researchers and analysts	83	72	75	68	73	92	85	88	88
Statisticians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Natural scientists	135	116	130	129	130	137	150	161	154
Agricultural and food scientists	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	S	S	S	S	S
Chemists, except biochemists	S	S	S	S	S	S	S	S	S
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S
Geologists and geodesists	S	S	S	S	S	S	S	S	S
Medical scientists	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	216	220	218	209	209	236	234	233	238
Economists	S	68	75	61	58	64	60	60	59
Psychologists	150	137	127	131	125	150	156	149	160
Sociologists	S	S	S	S	S	S	S	S	S
Urban planners	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Teachers, postsecondary (college and university)	313	333	326	313	329	355	358	364	369
Agriculture and forestry	S	S	S	S	S	S	S	S	S
Biological sciences	S	S	S	S	S	S	S	S	S
Chemistry	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S
Other	220	233	241	220	227	257	255	264	263
Teachers, except postsecondary (college and university)	2,864	2,953	3,100	3,187	3,254	3,467	3,524	3,584	3,664
Elementary school	1,227	1,283	1,362	1,366	1,419	1,523	1,584	1,595	1,682
Prekindergarten and kindergarten	414	405	453	479	480	496	522	529	512
Secondary school	598	630	624	614	613	697	674	704	678

TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

(Thousands)

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Special education	236	236	244	283	281	280	267	272	280
Other	389	399	418	444	461	471	478	484	512
Other	1,855	1,988	2,108	2,132	2,233	2,312	2,338	2,369	2,380
Technical, sales, and administrative support	20,594	20,569	20,510	20,746	20,692	20,726	21,110	20,844	20,622
Administrative support, including clerical	12,521	12,410	12,246	12,204	12,069	12,064	12,383	12,189	11,856
Sales	6,375	6,461	6,531	6,701	6,728	6,810	6,876	6,690	6,757
Technicians and related support	1,699	1,698	1,733	1,840	1,895	1,852	1,851	1,965	2,009
Engineering and related technologists and technicians	152	133	152	154	162	147	152	166	165
Drafting	S	S	S	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	51	57	S	53	67	63
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S
Other	63	54	60	60	57	54	S	S	S
Science technicians	80	82	74	98	102	103	94	114	118
Biological	S	S	S	52	64	61	56	70	71
Chemical	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Health technologists and technicians	1,075	1,101	1,087	1,137	1,157	1,118	1,133	1,203	1,243
Clinical lab technologists and technicians	211	217	212	224	215	197	196	216	222
Dental hygienists	96	91	92	103	105	102	108	103	125
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	295	294	312	316	291	265	268	264	277
Radiologic technicians	104	106	87	96	108	113	98	107	129
Other	347	382	371	383	423	429	451	500	476
Technicians, except health, engineering, and sciences	392	382	421	450	473	484	472	482	482
Other occupations	12,920	12,966	12,997	13,136	13,208	13,298	13,630	13,483	13,407
Male	57,452	58,146	58,888	59,998	60,604	61,139	62,289	62,212	61,849
Managerial and professional specialty	15,821	16,515	16,703	17,111	17,635	18,052	18,080	18,351	18,271
Executive, administrative, and managerial	8,441	8,947	9,026	9,297	9,580	9,708	9,760	9,851	9,883
Professional specialty	7,380	7,568	7,677	7,814	8,055	8,344	8,320	8,500	8,388
Engineers, architects, and surveyors	1,668	1,731	1,707	1,747	1,725	1,792	1,758	1,784	1,717
Architects	109	123	121	126	120	153	153	148	144
Engineers	1,542	1,593	1,570	1,608	1,592	1,625	1,589	1,614	1,551
Aerospace	60	68	71	76	65	59	61	71	77
Agricultural	S	S	S	S	S	S	S	S	S
Chemical	S	61	63	62	52	65	67	55	54
Civil	201	189	191	205	233	218	215	220	198
Electrical and electronic	457	494	482	499	477	481	523	547	503
Industrial	191	195	208	196	193	198	186	191	176
Marine and naval architects	S	S	S	S	S	S	S	S	S
Mechanical	295	287	285	288	277	289	283	284	249
Metallurgical and materials	S	S	S	S	S	S	S	S	S
Mining	S	S	S	S	S	S	S	S	S
Nuclear	S	S	S	S	S	S	S	S	S
Petroleum	S	S	S	S	S	S	S	S	S
Other	206	221	199	203	207	233	191	190	237
Surveyors and mapping scientists	S	S	S	S	S	S	S	S	S
Health assessment and treating	325	331	344	342	354	362	370	362	353
Dietitians	S	S	S	S	S	S	S	S	S
Pharmacists	101	96	92	99	92	98	102	98	88
Physicians' assistants	S	S	S	S	S	S	S	S	S
Registered nurses	104	113	112	116	119	122	131	129	128













TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

(Thousands)

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Chemistry	S	S	S	S	S	S	S	S	S
Computer sciences	S	S	S	S	S	S	S	S	S
Earth, environmental, and marine sciences	S	S	S	S	S	S	S	S	S
Economics	S	S	S	S	S	S	S	S	S
Engineering	S	S	S	S	S	S	S	S	S
Health specialties	S	S	S	S	S	S	S	S	S
Mathematical sciences	S	S	S	S	S	S	S	S	S
Medical sciences	S	S	S	S	S	S	S	S	S
Natural sciences NEC	S	S	S	S	S	S	S	S	S
Physics	S	S	S	S	S	S	S	S	S
Political sciences	S	S	S	S	S	S	S	S	S
Psychology	S	S	S	S	S	S	S	S	S
Social sciences NEC	S	S	S	S	S	S	S	S	S
Sociology	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary (college and university)	299	332	349	368	392	383	429	431	444
Elementary school	142	148	151	169	177	170	200	203	213
Prekindergarten and kindergarten	54	68	71	75	79	78	82	93	93
Secondary school	51	60	51	56	70	60	72	51	50
Special education	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	52	56
Other	213	219	240	217	253	295	293	290	299
Technical, sales, and administrative support	2,531	2,673	2,723	2,835	3,007	3,065	3,100	3,088	2,881
Administrative support, including clerical	1,672	1,711	1,745	1,776	1,858	1,917	1,931	1,905	1,788
Sales	633	732	754	823	879	871	871	880	800
Technicians and related support	227	230	224	237	270	278	298	303	294
Engineering and related technologists and technicians	S	S	S	S	S	S	S	S	S
Drafting	S	S	S	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	S	S	S	S	S	S
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Science technicians	S	S	S	S	S	S	S	S	S
Biological	S	S	S	S	S	S	S	S	S
Chemical	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Health technologists and technicians	179	165	155	168	196	197	206	210	222
Clinical lab technologists and technicians	S	S	S	S	S	S	S	S	61
Dental hygienists	S	S	S	S	S	S	S	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	72	76	55	57	64	63	68	83	76
Radiologic technicians	S	S	S	S	S	S	S	S	S
Other	57	S	S	56	75	69	74	68	76
Technicians, except health, engineering, and sciences	S	S	S	S	S	S	51	56	S
Other occupations	2,658	2,672	2,751	2,874	2,898	2,995	2,967	2,880	2,948
Male	6,241	6,422	6,456	6,607	6,871	7,027	7,082	6,938	6,959
Managerial and professional specialty	1,000	1,139	1,094	1,112	1,167	1,263	1,306	1,293	1,294
Executive, administrative, and managerial	526	589	537	559	589	596	629	651	668















TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Chemical	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Health technologists and technicians	S	S	S	S	S	S	S	S	S
Clinical lab technologists and technicians	S	S	S	S	S	S	S	S	S
Dental hygienists	S	S	S	S	S	S	S	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	S	S	S	S	S	S	S	S	S
Radiologic technicians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Technicians, except health, engineering, and sciences	S	S	S	S	S	S	S	S	S
Other occupations	1,881	1,964	2,030	2,270	2,388	2,545	2,812	2,872	3,031
Male	6,530	6,725	7,039	7,728	8,018	8,067	9,428	9,668	9,845
Managerial and professional specialty	805	805	851	982	1,019	1,015	1,056	1,110	1,192
Executive, administrative, and managerial	454	451	463	565	601	588	581	631	668
Professional specialty	351	354	388	417	417	426	474	480	524
Engineers, architects, and surveyors	61	69	71	77	74	76	86	83	81
Architects	S	S	S	S	S	S	S	S	S
Engineers	55	59	65	69	66	69	77	74	72
Aerospace	S	S	S	S	S	S	S	S	S
Agricultural	S	S	S	S	S	S	S	S	S
Chemical	S	S	S	S	S	S	S	S	S
Civil	S	S	S	S	S	S	S	S	S
Electrical and electronic	S	S	S	S	S	S	S	S	S
Industrial	S	S	S	S	S	S	S	S	S
Marine and naval architects	S	S	S	S	S	S	S	S	S
Mechanical	S	S	S	S	S	S	S	S	S
Metallurgical and materials	S	S	S	S	S	S	S	S	S
Mining	S	S	S	S	S	S	S	S	S
Nuclear	S	S	S	S	S	S	S	S	S
Petroleum	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Surveyors and mapping scientists	S	S	S	S	S	S	S	S	S
Health assessment and treating	S	S	S	S	S	S	S	S	S
Dietitians	S	S	S	S	S	S	S	S	S
Pharmacists	S	S	S	S	S	S	S	S	S
Physicians' assistants	S	S	S	S	S	S	S	S	S
Registered nurses	S	S	S	S	S	S	S	S	S
Therapists	S	S	S	S	S	S	S	S	S
Occupational	S	S	S	S	S	S	S	S	S
Physical	S	S	S	S	S	S	S	S	S
Respiratory	S	S	S	S	S	S	S	S	S
Speech	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Health diagnosing	S	S	S	S	S	S	S	S	S
Dentists	S	S	S	S	S	S	S	S	S
Optometrists	S	S	S	S	S	S	S	S	S
Physicians	S	S	S	S	S	S	S	S	S
Podiatrists	S	S	S	S	S	S	S	S	S
Veterinarians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	S	S	S	S	55	S	57	59	77
Actuaries	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	S	S	S	S	S	S	51	54	68



TABLE H-5. Employed persons 16 years and older, by detailed occupation, sex, and race/ethnicity: 1994–2002 annual averages

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Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002
Industrial engineering technicians	S	S	S	S	S	S	S	S	S
Mechanical engineering technicians	S	S	S	S	S	S	S	S	S
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Science technicians	S	S	S	S	S	S	S	S	S
Biological	S	S	S	S	S	S	S	S	S
Chemical	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Health technologists and technicians	S	S	S	S	S	S	S	S	53
Clinical lab technologists and technicians	S	S	S	S	S	S	S	S	S
Dental hygienists	S	S	S	S	S	S	S	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S
Licensed practical nurses	S	S	S	S	S	S	S	S	S
Radiologic technicians	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Technicians, except health, engineering, and sciences	S	S	S	S	S	S	S	S	S
Other occupations	4,752	4,896	5,108	5,564	5,784	5,849	6,963	7,111	7,270

NEC not elsewhere classified

S suppressed because fewer than 50,000 weighted cases

NOTES: Data for 2001 and 2002 reflect weights calculated on the basis of the 2000 decennial census and do not match the data in tables H-2–H-4, which reflect weights based on the 1990 decennial census. Hispanics may be of any race and are classified by race as well as ethnicity.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1994–2002.

TABLE H-6. Employed S&amp;E doctorate holders, by occupation and sex: 2001

Occupation	Total		Female		Male	
	Number	Percent	Number	Percent	Number	Percent
All occupations	574,890	100.0	147,110	25.6	427,770	74.4
S&E occupations	427,740	100.0	105,400	24.6	322,330	75.4
Scientists	352,320	100.0	99,320	28.2	252,990	71.8
Computer/information scientists	34,660	100.0	4,720	13.6	29,950	86.4
Computer/information	28,300	100.0	3,810	13.5	24,500	86.6
Postsecondary teachers	6,360	100.0	910	14.3	5,450	85.7
Life and related scientists	107,850	100.0	32,210	29.9	75,640	70.1
Agricultural and food	8,780	100.0	1,430	16.3	7,350	83.7
Biological and medical	61,880	100.0	21,030	34.0	40,850	66.0
Environmental life	1,120	100.0	210	18.8	910	81.3
Postsecondary teachers	36,070	100.0	9,540	26.4	26,530	73.6
Mathematical scientists	21,900	100.0	4,460	20.4	17,450	79.7
Mathematics	8,520	100.0	2,150	25.2	6,370	74.8
Postsecondary teachers	13,390	100.0	2,310	17.3	11,080	82.7
Physical and related scientists	73,840	100.0	10,280	13.9	63,560	86.1
Chemical (excluding biochemical)	24,220	100.0	3,860	15.9	20,360	84.1
Earth, atmospheric, and ocean	8,910	100.0	980	11.0	7,940	89.1
Physics and astronomy	13,960	100.0	1,080	7.7	12,870	92.2
Postsecondary teachers	25,620	100.0	4,190	16.4	21,430	83.6
Other	1,140	100.0	170	14.9	970	85.1
Psychology	66,860	100.0	33,280	49.8	33,590	50.2
Psychology	49,840	100.0	25,960	52.1	23,890	47.9
Postsecondary teachers	17,020	100.0	7,320	43.0	9,700	57.0
Social scientists	47,200	100.0	14,380	30.5	32,820	69.5
Economics	7,520	100.0	1,720	22.9	5,800	77.1
Political	1,430	100.0	330	23.1	1,100	76.9
Sociology and anthropology	3,800	100.0	1,890	49.7	1,900	50.0
Postsecondary teachers	32,100	100.0	9,290	28.9	22,800	71.0
Other	2,360	100.0	1,140	48.3	1,220	51.7
Engineers	75,420	100.0	6,080	8.1	69,340	91.9
Aerospace and related	4,280	100.0	250	5.8	4,030	94.2
Chemical	7,980	100.0	850	10.7	7,130	89.3
Civil	4,000	100.0	220	5.5	3,790	94.8
Electrical and related	16,110	100.0	1,060	6.6	15,060	93.5
Industrial	1,330	100.0	250	18.8	1,080	81.2
Mechanical	8,320	100.0	370	4.4	7,950	95.6
Other	16,530	100.0	1,870	11.3	14,660	88.7
Postsecondary teachers	16,870	100.0	1,230	7.3	15,640	92.7
Non-S&E occupations	147,150	100.0	41,710	28.3	105,440	71.7
Arts, humanities, and related	4,950	100.0	2,340	47.3	2,610	52.7
Health related	17,260	100.0	6,150	35.6	11,100	64.3
Management and administration	76,190	100.0	15,520	20.4	60,670	79.6
Postsecondary teachers (nonS&E)	18,800	100.0	9,860	52.4	8,940	47.6
Precollege teachers (all fields)	4,540	100.0	1,850	40.7	2,690	59.3
Sales and marketing	6,600	100.0	1,420	21.5	5,190	78.6
Social services and related	2,700	100.0	1,160	43.0	1,540	57.0
Technologists and technicians	7,030	100.0	890	12.7	6,140	87.3
Other	9,090	100.0	2,520	27.7	6,570	72.3

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers are rounded to nearest 10. Details may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-7. Employed S&amp;E doctorate holders, by occupation and race/ethnicity: 2001

Occupation	Total	White	Asian/Pacific			American Indian/Alaskan Native
			Islander	Black	Hispanic	
Number of doctorate holders						
All occupations	574,890	454,940	87,770	15,050	15,020	1,840
S&E occupations	427,740	334,210	70,010	9,980	11,920	1,390
Scientists	352,320	283,850	48,130	8,780	10,140	1,220
Computer/information scientists	34,660	21,950	11,340	600	710	S
Computer/information	28,300	17,220	10,020	430	570	S
Postsecondary teachers	6,360	4,720	1,320	170	140	S
Life and related scientists	107,850	85,150	17,240	2,150	3,000	280
Agricultural and food	8,780	6,930	1,160	250	400	S
Biological and medical	61,880	45,740	13,150	1,060	1,730	180
Environmental life	1,120	1,060	S	S	S	S
Postsecondary teachers	36,070	31,430	2,920	840	840	S
Mathematical scientists	21,900	16,880	3,810	540	610	S
Mathematicians	8,520	6,020	2,080	250	140	S
Postsecondary teachers	13,390	10,860	1,730	300	470	S
Physical and related scientists	73,840	59,870	10,660	1,190	1,840	240
Chemical (excluding biochemical)	24,220	17,820	5,380	450	540	S
Earth, atmospheric, and ocean	8,910	7,580	1,010	60	230	S
Physics and astronomy	13,960	11,610	1,940	90	270	S
Postsecondary teachers	25,620	21,860	2,220	580	780	150
Other	1,140	1,000	120	S	S	S
Psychology	66,860	60,450	1,480	2,280	2,260	370
Psychology	49,840	45,440	1,000	1,490	1,630	290
Postsecondary teachers	17,020	15,010	480	790	640	80
Social scientists	47,200	39,560	3,600	2,020	1,710	250
Economics	7,520	5,970	1,050	140	350	S
Political science	1,430	1,170	70	S	100	S
Sociology and anthropology	3,800	3,370	100	190	140	S
Postsecondary teachers	32,100	26,970	2,240	1,540	1,100	190
Other	2,360	2,080	150	90	S	S
Engineers	75,420	50,360	21,880	1,200	1,780	170
Aerospace and related	4,280	3,270	880	S	90	S
Chemical	7,980	4,930	2,750	110	180	S
Civil	4,000	2,660	1,080	100	150	S
Electrical and related	16,110	9,520	6,060	210	290	S
Industrial	1,330	850	440	S	S	S
Mechanical	8,320	5,110	3,010	100	90	S
Postsecondary teachers	16,870	12,500	3,250	490	550	60
Other	16,530	11,530	4,410	140	410	S
Non-S&E occupations	147,150	120,730	17,760	5,070	3,100	450
Arts, humanities, and related	4,950	4,530	230	90	90	S
Health related	17,260	13,930	2,370	580	300	60
Management and administration	76,190	62,480	9,480	2,530	1,490	200
Postsecondary teachers (non-S&E)	18,800	16,010	1,180	880	650	80
Precollege teachers (all fields)	4,540	3,800	230	330	140	S
Sales and marketing	6,600	5,250	1,030	150	140	S
Social services and related	2,700	2,290	140	220	S	S
Technologists and technicians	7,030	4,660	2,230	60	80	S
Other	9,090	7,770	860	230	180	60

TABLE H-7. Employed S&amp;E doctorate holders, by occupation and race/ethnicity: 2001

Page 2 of 2

Occupation	Total	White	Asian/Pacific	Black	Hispanic	American	
			Islander			Indian/Alaskan	
							Percent
							Native
All occupations	100.00	79.1	15.3	2.6	2.6	0.3	
S&E occupations	100.00	78.1	16.4	2.3	2.8	0.3	
Scientists	100.00	80.6	13.7	2.5	2.9	0.3	
Computer/information scientists	100.00	63.3	32.7	1.7	2.0	S	
Computer/information	100.00	60.8	35.4	1.5	2.0	S	
Postsecondary teachers	100.00	74.2	20.8	2.7	2.2	S	
Life and related scientists	100.00	79.0	16.0	2.0	2.8	0.3	
Agricultural and food	100.00	78.9	13.2	2.8	4.6	S	
Biological and medical	100.00	73.9	21.3	1.7	2.8	0.3	
Environmental life	100.00	94.6	S	S	S	S	
Postsecondary teachers	100.00	87.1	8.1	2.3	2.3	S	
Mathematical scientists	100.00	77.1	17.4	2.5	2.8	S	
Mathematicians	100.00	70.7	24.4	2.9	1.6	S	
Postsecondary teachers	100.00	81.1	12.9	2.2	3.5	S	
Physical and related scientists	100.00	81.1	14.4	1.6	2.5	0.3	
Chemical (excluding biochemical)	100.00	73.6	22.2	1.9	2.2	S	
Earth, atmospheric, and ocean	100.00	85.1	11.3	0.7	2.6	S	
Physics and astronomy	100.00	83.2	13.9	0.6	1.9	S	
Postsecondary teachers	100.00	85.3	8.7	2.3	3.0	0.6	
Other	100.00	87.7	10.5	S	S	S	
Psychology	100.00	90.4	2.2	3.4	3.4	0.6	
Psychology	100.00	91.2	2.0	3.0	3.3	0.6	
Postsecondary teachers	100.00	88.2	2.8	4.6	3.8	0.5	
Social scientists	100.00	83.8	7.6	4.3	3.6	0.5	
Economics	100.00	79.4	14.0	1.9	4.7	S	
Political science	100.00	81.8	4.9	S	7.0	S	
Sociology and anthropology	100.00	88.7	2.6	5.0	3.7	S	
Postsecondary teachers	100.00	84.0	7.0	4.8	3.4	0.6	
Other	100.00	88.1	6.4	3.8	S	S	
Engineers	100.00	66.8	29.0	1.6	2.4	0.2	
Aerospace and related	100.00	76.4	20.6	S	2.1	S	
Chemical	100.00	61.8	34.5	1.4	2.3	S	
Civil	100.00	66.5	27.0	2.5	3.8	S	
Electrical and related	100.00	59.1	37.6	1.3	1.8	S	
Industrial	100.00	63.9	33.1	S	S	S	
Mechanical	100.00	61.4	36.2	1.2	1.1	S	
Postsecondary teachers	100.00	74.1	19.3	2.9	3.3	0.4	
Other	100.00	69.8	26.7	0.8	2.5	S	
Non-S&E occupations	100.00	82.0	12.1	3.4	2.1	0.3	
Arts, humanities, and related	100.00	91.5	4.6	1.8	1.8	S	
Health related	100.00	80.7	13.7	3.4	1.7	0.3	
Management and administration	100.00	82.0	12.4	3.3	2.0	0.3	
Postsecondary teachers (non-S&E)	100.00	85.2	6.3	4.7	3.5	0.4	
Precollege teachers (all fields)	100.00	83.7	5.1	7.3	3.1	S	
Sales and marketing	100.00	79.5	15.6	2.3	2.1	S	
Social services and related	100.00	84.8	5.2	8.1	S	S	
Technologists and technicians	100.00	66.3	31.7	0.9	1.1	S	
Other	100.00	85.5	9.5	2.5	2.0	0.7	

S suppressed because fewer than 50 weighted cases.

NOTES: Table limited to those who earned a doctorate in an S&amp;E field from a U.S. institution. Numbers are rounded to nearest 10. Details may not add to total because of rounding. Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-8. Employed S&E doctorate holders, by occupation, race/ethnicity and sex: 2001

Occupation	All races/ethnicities			White			Asian/Pacific Islander			Black			Hispanic			American Indian/ Alaskan Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number of doctorate holders																	
All occupations	574,890	147,110	427,770	454,940	117,240	337,710	87,770	18,600	69,170	15,050	5,730	9,320	15,020	4,940	10,080	1,840	500	1,330
S&E occupations	427,740	105,400	322,330	334,210	83,060	251,160	70,010	14,730	55,280	9,980	3,420	6,560	11,920	3,790	8,130	1,390	340	1,040
Scientists	352,320	99,320	252,990	283,850	79,110	204,760	48,130	12,990	35,140	8,780	3,280	5,490	10,140	3,560	6,580	1,220	S	900
Computer and information scientists	34,660	4,720	29,950	21,950	2,780	19,170	11,340	1,790	9,560	600	80	530	710	80	640	S	S	S
Computer/information	28,300	3,810	24,500	17,220	2,070	15,160	10,020	1,630	8,400	430	S	390	570	70	500	S	S	S
Postsecondary teachers	6,360	910	5,450	4,720	710	4,010	1,320	160	1,160	170	S	140	140	S	140	S	S	S
Life and related scientists	107,850	32,210	75,640	85,150	24,340	60,810	17,240	5,930	11,310	2,150	770	1,390	3,000	1,060	1,940	280	80	200
Agricultural and food	8,780	1,430	7,350	6,930	1,040	5,890	1,160	220	930	250	S	220	400	130	260	50	S	S
Biological and medical	61,880	21,030	40,850	45,740	14,860	30,880	13,150	5,050	8,110	1,060	410	660	1,730	640	1,090	180	60	120
Environmental life	1,120	210	910	1,060	190	870	S	S	S	S	S	S	S	S	S	S	S	S
Postsecondary teachers	36,070	9,540	26,530	31,430	8,260	23,170	2,920	660	2,270	840	320	510	840	290	550	S	S	S
Mathematical scientists	21,900	4,460	17,450	16,880	3,050	13,840	3,810	1,090	2,710	550	200	350	610	110	510	50	S	S
Mathematicians	8,520	2,150	6,370	6,020	1,350	4,680	2,080	650	1,430	250	110	130	140	S	120	S	S	S
Postsecondary teachers	13,390	2,310	11,080	10,860	1,700	9,160	1,730	440	1,280	300	80	210	470	80	390	S	S	S
Physical and related scientists	73,840	10,280	63,560	59,870	7,600	52,270	10,660	2,200	8,460	1,190	180	1,010	1,840	270	1,570	240	S	220
Chemists (excluding biochemists)	24,220	3,860	20,360	17,820	2,410	15,410	5,380	1,290	4,090	450	70	380	540	90	460	S	S	S
Earth scientists, geologists, and oceanographers	8,910	980	7,940	7,580	820	6,770	1,010	140	870	60	S	60	230	S	220	S	S	S
Physicists and astronomers	13,960	1,080	12,870	11,610	720	10,890	1,940	310	1,630	90	S	80	270	S	240	S	S	S
Postsecondary teachers	25,620	4,190	21,430	21,860	3,530	18,330	2,220	430	1,790	580	80	500	780	130	650	150	S	140
Other	1,140	170	970	1,000	130	870	120	S	90	S	S	S	S	S	S	S	S	S
Psychologists	66,860	33,280	33,590	60,450	29,300	31,150	1,480	920	510	2,280	1,410	870	2,260	1,430	840	370	170	200
Postsecondary teachers	17,020	7,320	9,700	15,010	6,190	8,820	480	270	210	790	500	290	640	340	290	80	S	60
Psychologists	49,840	25,960	23,890	45,440	23,110	22,330	1,000	700	300	1,490	910	580	1,630	1,080	550	290	150	130
Social scientists	47,200	14,380	32,820	39,560	12,030	27,530	3,610	990	2,540	2,010	660	1,360	1,710	630	1,090	250	S	220
Economists	7,520	1,720	5,800	5,970	1,390	4,590	1,050	260	790	140	S	120	350	50	300	S	S	S
Political	1,430	330	1,100	1,170	250	920	70	S	S	50	S	S	100	S	60	50	S	50
Postsecondary teachers	32,100	9,290	22,800	26,970	7,740	19,240	2,240	570	1,670	1,540	470	1,080	1,100	470	630	190	S	170
Sociologists and anthropologists	3,800	1,890	1,900	3,370	1,630	1,740	100	80	S	190	120	70	140	60	70	S	S	S
Other	2,360	1,140	1,220	2,080	1,020	1,060	150	80	80	90	S	60	S	S	S	S	S	S
Engineers	75,420	6,080	69,340	50,360	3,950	46,400	21,880	1,740	20,140	1,200	140	1,070	1,780	230	1,550	170	S	140
Aerospace and related	4,280	250	4,030	3,270	170	3,100	880	S	840	S	S	S	90	S	60	S	S	S



TABLE H-8. Employed S&E doctorate holders, by occupation, race/ethnicity and sex: 2001

Occupation	All races/ethnicities			White			Asian/Pacific Islander			Black			Hispanic			American Indian/ Alaskan Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Number of doctorate holders																		
Chemical	7,980	850	7,130	4,930	540	4,390	2,750	290	2,460	110	S	100	180	S	180	S	S	S
Civil	4,000	220	3,790	2,660	200	2,460	1,080	S	1,070	100	S	100	150	S	150	S	S	S
Electrical and related	16,110	1,060	15,060	9,520	460	9,060	6,060	540	5,520	210	S	190	290	S	250	S	S	S
Industrial	1,330	250	1,080	850	140	710	440	80	350	S	S	S	S	S	S	S	S	S
Mechanical	8,320	370	7,950	5,110	210	4,900	3,010	150	2,860	100	S	90	90	S	90	S	S	S
Postsecondary teachers	16,870	1,230	15,640	12,500	1,000	11,500	3,250	140	3,110	490	S	440	550	S	510	60	S	60
Other	16,530	1,870	14,660	11,530	1,240	10,290	4,410	480	3,930	140	S	90	410	90	310	S	S	S
Non-S&E occupations	147,150	41,710	105,440	120,730	34,180	86,550	17,760	3,870	13,890	5,070	2,310	2,760	3,100	1,150	1,950	450	160	290
Arts, humanities, and related	4,950	2,340	2,610	4,530	2,060	2,480	230	200	S	90	S	70	90	70	S	S	S	S
Health related	17,260	6,150	11,100	13,930	4,950	8,980	2,370	770	1,610	580	280	300	300	130	170	60	S	S
Managers and administrators	76,190	15,520	60,670	62,480	12,670	49,810	9,480	1,360	8,130	2,530	1,050	1,470	1,490	380	1,110	200	60	140
Postsecondary teachers	18,800	9,860	8,940	16,010	8,270	7,750	1,180	570	610	880	590	290	650	370	280	80	60	S
Precollege teachers	4,540	1,850	2,690	3,800	1,590	2,210	230	110	120	330	80	250	140	60	80	S	S	S
Sales and marketing	6,600	1,420	5,190	5,250	1,120	4,140	1,030	170	870	150	60	100	140	50	80	S	S	S
Social services and related	2,700	1,160	1,540	2,290	1,010	1,290	140	S	110	220	90	120	S	S	S	S	S	S
Technologists and technicians	7,030	890	6,140	4,660	420	4,240	2,230	470	1,760	60	S	60	80	S	80	S	S	S
Other	9,090	2,520	6,570	7,770	2,100	5,660	860	200	660	230	130	100	180	70	110	60	S	S
Percent distribution																		
All occupations	100.0	25.6	74.4	100.0	25.8	74.2	100.0	21.2	78.8	100.0	38.1	61.9	100.0	32.9	67.1	100.0	27.2	72.3
S&E occupations	100.0	18.3	75.4	100.0	18.3	75.2	100.0	16.8	79.0	100.0	22.7	65.7	100.0	25.2	68.2	100.0	18.5	74.8
Scientists	100.0	23.2	71.8	100.0	23.7	72.1	100.0	18.6	73.0	100.0	32.9	62.5	100.0	29.9	64.9	100.0	S	S
Computer and information scientists	100.0	13.6	86.4	100.0	12.7	87.3	100.0	15.8	84.3	100.0	13.3	88.3	100.0	11.3	90.1	100.0	S	S
Computer/information Postsecondary teachers	100.0	13.5	86.6	100.0	12.0	88.0	100.0	16.3	83.8	100.0	S	90.7	100.0	12.3	87.7	100.0	S	S
Life and related scientists	100.0	14.3	85.7	100.0	15.0	85.0	100.0	12.1	87.9	100.0	S	82.4	100.0	S	100.0	100.0	S	S
Agricultural and food	100.0	29.9	70.1	100.0	28.6	71.4	100.0	34.4	65.6	100.0	35.8	64.7	100.0	35.3	64.7	100.0	28.6	71.4
Biological and medical	100.0	16.3	83.7	100.0	15.0	85.0	100.0	19.0	80.2	100.0	S	88.0	100.0	32.5	65.0	100.0	S	S
Environmental life	100.0	34.0	66.0	100.0	32.5	67.5	100.0	38.4	61.7	100.0	38.7	62.3	100.0	37.0	63.0	100.0	33.3	66.7
Postsecondary teachers	100.0	18.8	81.3	100.0	17.9	82.1	100.0	S	S	100.0	S	S	S	S	S	100.0	S	S
Mathematical scientists	100.0	26.4	73.6	100.0	26.3	73.7	100.0	22.6	77.7	100.0	38.1	60.7	100.0	34.5	65.5	100.0	S	S
Mathematicians	100.0	20.4	79.7	100.0	18.1	82.0	100.0	28.6	71.1	100.0	36.4	63.6	100.0	18.0	83.6	100.0	S	S
Postsecondary teachers	100.0	25.2	74.8	100.0	22.4	77.7	100.0	31.3	68.8	100.0	44.0	52.0	100.0	S	85.7	100.0	S	S
Physical and related scientists	100.0	17.3	82.7	100.0	15.7	84.3	100.0	25.4	74.0	100.0	26.7	70.0	100.0	17.0	83.0	100.0	S	S
Chemists (excluding biochemists)	100.0	13.9	86.1	100.0	12.7	87.3	100.0	20.6	79.4	100.0	15.1	84.9	100.0	14.7	85.3	100.0	S	91.7

TABLE H-8. Employed S&E doctorate holders, by occupation, race/ethnicity and sex: 2001

Occupation	All races/ethnicities			White			Asian/Pacific Islander			Black			Hispanic			American Indian/ Alaskan Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Percent distribution																		
Earth scientists, geologists, and oceanographers	100.0	11.0	89.1	100.0	10.8	89.3	100.0	13.9	86.1	100.0	S	100.0	100.0	S	95.7	100.0	S	S
Physicists and astronomers	100.0	7.7	92.2	100.0	6.2	93.8	100.0	16.0	84.0	100.0	S	88.9	100.0	S	88.9	100.0	S	S
Postsecondary teachers	100.0	16.4	83.6	100.0	16.1	83.9	100.0	19.4	80.6	100.0	13.8	86.2	100.0	16.7	83.3	100.0	S	93.3
Other	100.0	14.9	85.1	100.0	13.0	87.0	100.0	S	75.0	100.0	S	S	S	S	S	100.0	S	S
Psychologists	100.0	49.8	50.2	100.0	48.5	51.5	100.0	62.2	34.5	100.0	61.8	38.2	100.0	63.3	37.2	100.0	45.9	54.1
Postsecondary teachers	100.0	43.0	57.0	100.0	41.2	58.8	100.0	56.3	43.8	100.0	63.3	36.7	100.0	53.1	45.3	100.0	S	75.0
Psychologists	100.0	52.1	47.9	100.0	50.9	49.1	100.0	70.0	30.0	100.0	61.1	38.9	100.0	66.3	33.7	100.0	51.7	44.8
Social scientists	100.0	30.5	69.5	100.0	30.4	69.6	100.0	27.4	70.4	100.0	32.8	67.7	100.0	36.8	63.7	100.0	S	88.0
Economists	100.0	22.9	77.1	100.0	23.3	76.9	100.0	24.8	75.2	100.0	S	85.7	100.0	14.3	85.7	100.0	S	S
Political	100.0	23.1	76.9	100.0	21.4	78.6	100.0	S	S	100.0	S	S	100.0	S	60.0	100.0	S	100.0
Postsecondary teachers	100.0	28.9	71.0	100.0	28.7	71.3	100.0	25.4	74.6	100.0	30.5	70.1	100.0	42.7	57.3	100.0	S	89.5
Sociologists and anthropologists	100.0	49.7	50.0	100.0	48.4	51.6	100.0	80.0	S	100.0	63.2	36.8	100.0	42.9	50.0	100.0	S	S
Other	100.0	48.3	51.7	100.0	49.0	51.0	100.0	53.3	53.3	100.0	S	66.7	100.0	S	S	100.0	S	S
Engineers	100.0	8.1	91.9	100.0	7.8	92.1	100.0	8.0	92.0	100.0	11.7	89.2	100.0	12.9	87.1	100.0	S	82.4
Aerospace and related	100.0	5.8	94.2	100.0	5.2	94.8	100.0	S	95.5	100.0	S	S	100.0	S	66.7	100.0	S	S
Chemical	100.0	10.7	89.3	100.0	11.0	89.0	100.0	10.5	89.5	100.0	S	90.9	100.0	S	100.0	100.0	S	S
Civil	100.0	5.5	94.8	100.0	7.5	92.5	100.0	S	99.1	100.0	S	100.0	100.0	S	100.0	100.0	S	S
Electrical and related	100.0	6.6	93.5	100.0	4.8	95.2	100.0	8.9	91.1	100.0	S	90.5	100.0	S	86.2	100.0	S	S
Industrial	100.0	18.8	81.2	100.0	16.5	83.5	100.0	18.2	79.5	100.0	S	S	100.0	S	S	100.0	S	S
Mechanical	100.0	4.4	95.6	100.0	4.1	95.9	100.0	5.0	95.0	100.0	S	90.0	100.0	S	100.0	100.0	S	S
Postsecondary teachers	100.0	7.3	92.7	100.0	8.0	92.0	100.0	4.3	95.7	100.0	S	89.8	100.0	S	92.7	100.0	S	100.0
Other	100.0	11.3	88.7	100.0	10.8	89.2	100.0	10.9	89.1	100.0	S	64.3	100.0	22.0	75.6	100.0	S	S
Non-S&E occupations	100.0	28.3	71.7	100.0	28.3	71.7	100.0	21.8	78.2	100.0	45.6	54.4	100.0	37.1	62.9	100.0	35.6	64.4
Arts, humanities, and related	100.0	47.3	52.7	100.0	45.5	54.7	100.0	87.0	S	100.0	S	77.8	100.0	77.8	S	100.0	S	S
Health related	100.0	35.6	64.3	100.0	35.5	64.5	100.0	32.5	67.9	100.0	48.3	51.7	100.0	43.3	56.7	100.0	S	S
Managers and administrators	100.0	20.4	79.6	100.0	20.3	79.7	100.0	14.3	85.8	100.0	41.5	58.1	100.0	25.5	74.5	100.0	30.0	70.0
Postsecondary teachers	100.0	52.4	47.6	100.0	51.7	48.4	100.0	48.3	51.7	100.0	67.0	33.0	100.0	56.9	43.1	100.0	75.0	S
Precollege teachers	100.0	40.7	59.3	100.0	41.8	58.2	100.0	47.8	52.2	100.0	24.2	75.8	100.0	42.9	57.1	100.0	S	S
Sales and marketing	100.0	21.5	78.6	100.0	21.3	78.9	100.0	16.5	84.5	100.0	40.0	66.7	100.0	35.7	57.1	100.0	S	S
Social services and related	100.0	43.0	57.0	100.0	44.1	56.3	100.0	S	78.6	100.0	40.9	54.5	100.0	S	S	100.0	S	S
Technologists and technicians	100.0	12.7	87.3	100.0	9.0	91.0	100.0	21.1	78.9	100.0	S	100.0	100.0	S	100.0	100.0	S	S
Other	100.0	27.7	72.3	100.0	27.0	72.8	100.0	23.3	76.7	100.0	56.5	43.5	100.0	38.9	61.1	100.0	S	S

S suppressed because fewer than 50 weighted cases.

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers are rounded to nearest 10. Details may not add to total because of rounding. Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-9. Employed S&amp;E doctorate holders, by occupation and disability status: 2001

Occupation	All doctorate holders		No disability		With disability	
	Number	Percent	Number	Percent	Number	Percent
All occupations	574,890	100.0	539,260	93.8	35,630	6.2
S&E occupations	427,740	100.0	402,340	94.1	25,400	5.9
Scientists	352,320	100.0	331,380	94.1	20,930	5.9
Computer and information scientists	34,660	100.0	33,000	95.2	1,670	4.8
Computer/information	28,300	100.0	27,180	96.0	1,130	4.0
Postsecondary teachers	6,360	100.0	5,820	91.5	540	8.5
Life and related scientists	107,850	100.0	102,050	94.6	5,800	5.4
Agricultural and food	8,780	100.0	8,070	91.9	710	8.1
Biological and medical	61,880	100.0	59,500	96.2	2,380	3.8
Environmental life	1,120	100.0	1,000	89.3	120	10.7
Postsecondary teachers	36,070	100.0	33,470	92.8	2,590	7.2
Mathematical scientists	21,900	100.0	20,580	94.0	1,320	6.0
Mathematicians	8,520	100.0	8,160	95.8	360	4.2
Postsecondary teachers	13,390	100.0	12,430	92.8	960	7.2
Physical and related scientists	73,840	100.0	69,940	94.7	3,900	5.3
Chemists (excluding biochemists)	24,220	100.0	23,100	95.4	1,120	4.6
Earth scientists, geologists, and oceanographers	8,910	100.0	8,490	95.3	430	4.8
Physicists and astronomers	13,960	100.0	13,310	95.3	650	4.7
Postsecondary teachers	25,620	100.0	23,970	93.6	1,650	6.4
Other	1,140	100.0	1,080	94.7	60	5.3
Psychologists	3,800	100.0	3,530	92.9	270	7.1
Postsecondary teachers	32,100	100.0	29,420	91.7	2,680	8.3
Psychologists	2,360	100.0	2,230	94.5	120	5.1
Social scientists	66,860	100.0	62,260	93.1	4,600	6.9
Economists	49,840	100.0	46,510	93.3	3,340	6.7
Political	17,020	100.0	15,750	92.5	1,270	7.5
Postsecondary teachers	1,430	100.0	1,220	85.3	210	14.7
Sociologists and anthropologists	47,200	100.0	43,550	92.3	3,660	7.8
Other	7,520	100.0	7,140	94.9	380	5.1
Engineers	75,420	100.0	70,960	94.1	4,470	5.9
Aerospace and related	4,280	100.0	3,990	93.2	290	6.8
Chemical	7,980	100.0	7,610	95.4	370	4.6
Civil	4,000	100.0	3,790	94.8	210	5.3
Electrical and related	16,110	100.0	15,420	95.7	700	4.3
Industrial	1,330	100.0	1,300	97.7	S	S
Mechanical	8,320	100.0	7,820	94.0	500	6.0
Postsecondary teachers	16,870	100.0	15,600	92.5	1,270	7.5
Other	16,530	100.0	15,430	93.3	1,100	6.7
Non-S&E occupations	147,150	100.0	136,920	93.0	10,230	7.0
Arts, humanities, and related	4,950	100.0	4,520	91.3	430	8.7
Health related	17,260	100.0	16,500	95.6	760	4.4
Managers and administrators	76,190	100.0	71,070	93.3	5,120	6.7
Non-S&E postsecondary teachers	18,800	100.0	17,000	90.4	1,790	9.5
Precollege teachers	4,540	100.0	4,340	95.6	200	4.4
Sales and marketing	6,600	100.0	6,240	94.5	370	5.6
Social services and related	2,700	100.0	2,490	92.2	210	7.8
Technologists and technicians	7,030	100.0	6,550	93.2	480	6.8
Other	9,090	100.0	8,220	90.4	870	9.6

S suppressed because fewer than 50 weighted cases

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers are rounded to nearest 10. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-10. Employment status of S&amp;E doctorate holders, by age, sex, race/ethnicity, and disability status: 2001

Age in years, sex, race/ethnicity, and disability status	Total	Employed			Not employed		Retired
		Full time	Part time	Postdoctoral appointment	Seeking employment	Not seeking employment	
All ages	656,550	507,250	45,770	21,870	7,570	15,040	59,050
Female	166,320	117,340	20,840	8,930	2,120	9,490	7,590
Male	490,230	389,910	24,920	12,940	5,460	5,540	51,460
White	526,600	399,990	40,610	14,350	5,550	12,080	54,020
Asian/Pacific Islander	95,120	79,050	2,750	5,960	1,600	2,240	3,500
Black	16,060	13,320	1,130	600	170	250	600
Hispanic	16,410	12,970	1,150	890	220	430	740
American Indian/Alaskan Native	2,060	1,690	100	50	S	S	150
No disability	606,990	476,760	41,180	21,320	6,850	13,070	47,810
With disability	49,560	30,490	4,590	550	720	1,970	11,240
29 and younger	4,810	3,190	140	1,300	S	150	S
Female	1,710	1,020	70	530	S	70	S
Male	3,100	2,180	80	780	S	80	S
White	3,620	2,310	70	1,090	S	130	S
Asian/Pacific Islander	900	690	70	140	S	S	S
Black	150	140	S	S	S	S	S
Hispanic	130	50	S	60	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S	S
No disability	4,710	3,110	140	1,280	S	150	S
With disability	100	80	S	S	S	S	S
30-39	135,950	107,240	6,200	16,790	1,100	4,590	S
Female	46,120	30,010	5,010	7,130	420	3,530	S
Male	89,830	77,230	1,190	9,660	690	1,060	S
White	91,840	71,480	5,200	11,030	640	3,460	S
Asian/Pacific Islander	35,770	29,110	620	4,760	350	940	S
Black	3,370	2,810	140	360	S	S	S
Hispanic	4,440	3,420	220	580	90	140	S
American Indian/Alaskan Native	380	320	S	S	S	S	S
No disability	133,540	105,410	6,080	16,470	1,080	4,460	S
With disability	2,410	1,830	130	310	S	130	S
40-49	185,940	167,210	9,470	3,150	1,800	4,020	280
Female	54,650	42,550	7,140	1,000	720	3,060	180
Male	131,290	124,670	2,330	2,150	1,080	960	100
White	142,970	128,330	8,040	1,820	1,290	3,250	240
Asian/Pacific Islander	31,520	28,970	660	900	410	540	S
Black	5,170	4,580	260	200	50	70	S
Hispanic	5,790	4,890	490	220	40	150	S
American Indian/Alaskan Native	450	390	S	S	S	S	S
No disability	176,910	159,430	8,910	2,960	1,710	3,660	240
With disability	9,030	7,780	560	190	90	360	S
50 and older	329,860	229,610	29,940	630	4,650	6,280	58,750
Female	63,840	43,770	8,620	270	960	2,830	7,390
Male	266,010	185,840	21,320	360	3,690	3,450	51,360
White	288,170	197,860	27,300	400	3,600	5,240	53,760
Asian/Pacific Islander	26,930	20,280	1,410	160	850	770	3,460
Black	7,370	5,790	720	S	90	130	600
Hispanic	6,060	4,610	450	S	90	130	740
American Indian/Alaskan Native	1,220	970	70	S	S	S	150
No disability	291,840	208,810	26,040	610	4,040	4,790	47,550
With disability	38,020	20,800	3,900	S	610	1,480	11,200

S suppressed because fewer than 50 weighted cases.

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Figures are rounded to nearest 10. Total includes "other race/ethnicity" not shown separately. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.



TABLE H-12. S&amp;E doctorate holders who are unemployed or out of labor force, by reason for not working, sex, race/ethnicity, and disability status: 2001

Reason for not working	Race/ethnicity									
	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	No disability	With disability
	Number									
All not working	81,660	19,200	62,460	71,650	7,350	1,010	1,390	230	67,730	13,930
Chronic illness or permanent disability	4,650	1,730	2,920	4,040	370	120	100	S	2,100	2,540
Did not need/want to work	10,970	5,070	5,900	9,710	890	120	240	S	9,930	1,040
Family responsibilities	8,290	6,770	1,510	6,570	1,340	90	270	S	7,820	470
Laid off	3,540	900	2,640	2,650	770	70	S	S	3,240	300
Retired	60,420	7,730	52,690	55,080	3,730	630	800	150	49,050	11,370
Student	2,120	850	1,280	1,500	490	S	80	S	1,980	140
Suitable job not available	5,940	1,930	4,000	4,440	1,130	120	210	S	5,320	620
Other	2,340	880	1,470	1,770	400	100	50	S	2,130	220
	Percent									
Chronic illness or permanent disability	5.7	9.0	4.7	5.6	5.0	12.2	7.5	S	3.1	18.3
Did not need/want to work	13.4	26.4	9.4	13.5	12.1	12.3	17.5	S	14.7	7.4
Family responsibilities	10.1	35.3	2.4	9.2	18.2	8.7	19.6	S	11.5	3.4
Laid off	4.3	4.7	4.2	3.7	10.5	6.9	S	S	4.8	2.1
Retired	74.0	40.3	84.4	76.9	50.7	62.6	57.7	68.3	72.4	81.6
Student	2.6	4.4	2.0	2.1	6.7	S	5.9	S	2.9	1.0
Suitable job not available	7.3	10.1	6.4	6.2	15.3	12.1	14.8	S	7.8	4.5
Other	2.9	4.6	2.3	2.5	5.5	9.6	3.9	S	3.1	1.6

S suppressed because fewer than 50 weighted cases

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Figures are rounded to nearest 10. Details may not add to total because of rounding and because respondents could select more than one reason. Total includes "other race/ethnicity" not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-13. Primary education/employment status and median salary of 1999 and 2000 S&E bachelor's degree recipients, by field, sex, race/ethnicity, and disability status: 2001

Field, sex, race/ethnicity, and disability status	All bachelor's degree recipients	Full-time student	Not full-time student			Median salary in dollars for full-time employed <sup>a</sup>
			Employed in S&E	Employed in non-S&E	Not employed	
All S&E fields	758,300	168,400	171,500	373,800	44,600	34,000
Sciences	649,000	154,500	94,700	358,400	41,400	31,000
Female	364,700	86,300	35,800	213,100	29,600	29,000
Male	284,300	68,200	58,900	145,400	11,800	35,000
White	479,600	115,100	71,100	266,200	27,200	30,000
Asian/Pacific Islander	61,900	15,200	10,400	29,500	6,800	36,000
Underrepresented minority	107,600	24,300	13,300	62,700	7,300	30,000
No disability	622,400	149,900	90,900	342,400	39,200	31,000
With disability	26,700	4,600	3,800	16,100	S	32,000
Computer/information sciences	61,500	S	35,600	19,500	4,400	51,000
Female	15,200	S	6,900	6,200	S	45,000
Male	46,300	S	28,700	13,300	S	52,000
White	39,400	S	23,900	11,100	S	53,000
Asian/Pacific Islander	10,100	S	5,900	S	S	50,000
Underrepresented minority	12,000	S	5,700	5,300	S	45,000
No disability	58,100	S	34,000	18,100	4,000	51,000
With disability	3,500	S	S	S	S	S
Life and related sciences	159,400	52,900	17,800	81,600	7,100	29,000
Female	86,500	25,500	8,600	47,100	5,400	27,000
Male	72,800	27,400	9,300	34,500	S	31,000
White	121,100	39,800	14,800	62,100	4,400	29,000
Asian/Pacific Islander	17,700	6,900	S	8,400	S	31,000
Underrepresented minority	20,700	6,200	2,100	11,100	1,300	29,000
No disability	155,500	52,100	17,300	79,300	6,800	29,000
With disability	3,900	S	S	S	S	27,000
Mathematics	24,400	4,300	3,800	14,600	S	33,000
Female	12,600	S	1,800	8,300	S	30,000
Male	11,700	3,100	1,900	6,200	S	35,000
White	18,900	3,100	3,000	11,600	S	33,000
Asian/Pacific Islander	2,000	S	S	S	S	S
Underrepresented minority	3,400	S	S	2,000	S	33,000
No disability	23,100	4,100	3,500	13,700	S	33,000
With disability	S	S	S	S	S	S
Physical and related sciences	32,200	10,100	10,600	9,900	1,600	34,000
Female	12,300	3,700	4,000	3,800	800	32,000
Male	19,900	6,400	6,500	6,100	800	35,000
White	25,800	7,800	8,900	8,000	1,200	34,000
Asian/Pacific Islander	2,500	S	S	S	S	36,000
Underrepresented minority	3,900	1,500	1,000	1,200	S	30,000
No disability	31,100	9,700	10,000	9,800	1,600	34,000
With disability	1,100	S	S	S	S	S
Psychology	152,900	41,000	11,100	91,200	9,600	28,000
Female	118,000	32,200	8,000	69,800	8,000	27,000
Male	34,900	8,800	S	21,400	S	30,000
White	114,400	30,900	7,800	69,900	5,800	27,000
Asian/Pacific Islander	10,100	S	S	S	S	S
Underrepresented minority	28,400	7,300	2,100	17,300	S	28,000

TABLE H-13. Primary education/employment status and median salary of 1999 and 2000 S&amp;E bachelor's degree recipients, by field, sex, race/ethnicity, and disability status: 2001

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Field, sex, race/ethnicity, and disability status	All bachelor's degree recipients	Full-time student	Not full-time student			Median salary in dollars for full-time employed <sup>a</sup>
			Employed in S&E	Employed in non-S&E	Not employed	
No disability	146,000	39,900	10,700	86,000	9,300	27,000
With disability	6,900	S	S	5,200	S	30,000
Social and related sciences	218,700	44,200	15,900	141,700	17,000	30,000
Female	120,100	23,300	6,500	77,900	12,400	30,000
Male	98,600	20,800	9,400	63,800	4,500	32,000
White	160,000	31,700	12,700	103,500	12,100	30,000
Asian/Pacific Islander	19,500	4,000	S	12,400	S	35,000
Underrepresented minority	39,200	8,500	1,700	25,800	3,200	30,000
No disability	208,600	42,100	15,200	135,400	15,900	30,000
With disability	10,100	S	S	6,300	S	30,000
Engineering	109,200	13,800	76,800	15,300	3,300	49,000
Female	22,800	3,200	14,800	3,600	1,200	46,000
Male	86,500	10,600	62,000	11,800	2,100	49,000
White	77,300	9,400	55,700	10,500	1,800	48,000
Asian/Pacific Islander	16,700	2,800	10,800	2,100	S	51,000
Underrepresented minority	15,300	1,700	10,400	2,800	S	50,000
No disability	105,600	13,500	74,200	14,800	3,200	49,000
With disability	3,600	S	2,600	S	S	50,000

S suppressed data with weighted cases less than 100 or unweighted sample sizes less than 20 for reasons of respondent confidentiality or data reliability.

<sup>a</sup>Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

NOTES: Figures are rounded to nearest 100, and median salaries are rounded to nearest 1,000. Details may not add to totals because of rounding. The underrepresented minority category includes black, Hispanic, and American Indian/Alaskan Native. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 2001.



TABLE H-14. Primary education/employment status and median salary of 1999 and 2000 S&amp;E master's degree recipients, by field, sex, race/ethnicity, and disability status: 2001

Page 1 of 2

Field, sex, race/ethnicity, and disability status	All recipients	Full-time student	Not full-time student			Median salary in dollars for full-time employed <sup>a</sup>
			Employed in S&E	Employed in non-S&E	Not employed	
All S&E	160,100	29,500	77,300	45,900	7,400	50,000
Sciences	115,300	23,900	44,100	41,400	5,800	45,000
Female	63,100	11,800	20,400	26,700	4,200	40,000
Male	52,200	12,200	23,700	14,700	1,600	53,000
White	76,200	16,300	25,500	30,100	4,400	40,000
Asian/Pacific Islander	24,500	4,700	14,000	4,900	S	60,000
Underrepresented minority	14,600	3,000	4,600	6,400	S	40,000
No disability	110,100	23,400	41,800	39,600	5,300	45,000
With disability	5,200	S	2,300	1,800	S	43,000
Computer/information sciences	24,300	1,600	17,100	4,400	S	65,000
Male	16,900	S	12,400	2,600	S	70,000
Female	7,400	S	4,700	1,800	S	60,000
White	8,400	S	4,900	2,100	S	68,000
Asian/Pacific Islander	14,200	S	11,000	2,100	S	65,000
Underrepresented minority	1,700	S	1,300	S	S	75,000
No disability	22,800	S	16,000	4,300	S	65,000
With disability	S	S	S	S	S	S
Life and related sciences	16,200	4,700	5,900	5,000	S	38,000
Male	7,600	2,600	2,300	2,400	S	38,000
Female	8,600	2,100	3,500	2,600	S	37,000
White	12,100	3,100	4,300	4,100	S	37,000
Asian/Pacific Islander	2,400	S	S	S	S	S
Underrepresented minority	1,700	S	600	600	S	33,000
No disability	16,000	4,700	5,800	4,900	S	37,000
With disability	S	S	S	S	S	S
Mathematical and related sciences	6,200	1,600	2,500	2,000	S	45,000
Male	3,700	1,000	1,600	1,000	S	50,000
Female	2,500	S	1,000	1,000	S	42,000
White	4,000	1,000	1,600	1,300	S	45,000
Asian/Pacific Islander	1,400	S	S	S	S	45,000
Underrepresented minority	800	S	S	S	S	40,000
No disability	6,000	1,500	2,400	1,900	S	45,000
With disability	S	S	S	S	S	S
Physical and related sciences	8,600	3,200	3,900	1,100	S	45,000
Male	5,700	2,300	2,600	600	S	48,000
Female	2,900	900	1,300	S	S	42,000
White	5,900	2,100	2,800	700	S	45,000
Asian/Pacific Islander	2,000	900	S	S	S	50,000
Underrepresented minority	700	S	400	S	S	38,000
No disability	8,300	3,100	3,700	1,100	S	45,000
With disability	S	S	S	S	S	S
Psychology	33,000	5,800	9,100	16,100	2,000	35,000
Male	7,100	S	2,200	3,100	S	36,000
Female	25,900	4,300	6,800	13,000	S	34,000
White	26,300	4,300	7,500	12,800	S	35,000
Asian/Pacific Islander	S	S	S	S	S	S
Underrepresented minority	5,300	1,000	1,300	2,700	S	36,000
No disability	31,100	5,800	8,500	15,100	S	35,000
With disability	1,900	S	S	S	S	S
Social and related sciences	27,100	7,100	5,600	12,800	1,500	43,000
Male	11,300	3,300	2,600	4,900	S	44,000
Female	15,800	3,800	3,000	7,900	S	40,000

TABLE H-14. Primary education/employment status and median salary of 1999 and 2000 S&amp;E master's degree recipients, by field, sex, race/ethnicity, and disability status: 2001

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Field, sex, race/ethnicity, and disability status	All recipients	Full-time student	Not full-time student			Median salary in dollars for full-time employed <sup>a</sup>
			Employed in S&E	Employed in non-S&E	Not employed	
White	19,500	4,800	4,300	9,100	S	42,000
Asian/Pacific Islander	3,100	S	S	S	S	48,000
Underrepresented minority	4,400	1,000	700	2,600	S	42,000
No disability	25,900	6,900	5,400	12,300	1,400	43,000
With disability	S	S	S	S	S	S
Engineering	44,800	5,600	33,200	4,500	1,500	60,000
Female	9,300	800	6,900	1,200	S	60,000
Male	35,400	4,800	26,300	3,300	1,100	60,000
White	23,900	2,700	17,800	2,800	S	60,000
Asian/Pacific Islander	15,600	2,100	11,800	1,000	S	60,000
Underrepresented minority	5,200	800	3,600	700	S	59,000
No disability	43,300	5,300	32,200	4,400	1,500	60,000
With disability	1,400	S	1,000	S	S	59,000

S suppressed data for weighted cases less than 100 or unweighted sample sizes less than 20 for respondent confidentiality and/or data reliability.

<sup>a</sup> Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

NOTES: Figures are rounded to nearest 100 and median salaries to nearest 1,000. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Underrepresented minority includes black, Hispanic, and American Indian/Alaskan Native.

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 2001.



TABLE H-15. Employment status and median salary of 1999 and 2000 S&amp;E doctoral degree recipients, by broad field of doctorate, sex, race/ethnicity, and disability status: 2001

Page 2 of 3

Field, sex, race/ethnicity, and disability status	All recipients	Employed			Not employed		Median salary in dollars for full-time employed <sup>a</sup>	
		Total	Full time	Part time	Postdoc appointment	Seeking work		Not seeking work
Mathematical sciences	1,470	1,450	930	80	440	S	S	45,000
Female	430	410	260	60	80	S	S	43,000
Male	1,040	1,040	670	S	350	S	S	45,000
White	1,020	1,000	560	60	380	S	S	42,000
Asian/Pacific Islander	390	380	310	S	S	S	S	60,000
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S	S	S
No disability	1,400	1,380	880	80	410	S	S	45,000
With disability	70	70	S	S	S	S	S	S
Physical and related sciences	5,570	5,380	3,320	100	1,960	S	160	50,000
Female	1,260	1,100	650	70	380	S	160	47,000
Male	4,310	4,280	2,680	S	1,580	S	S	50,000
White	3,720	3,630	2,170	S	1,420	S	90	48,000
Asian/Pacific Islander	1,440	1,340	840	S	470	S	70	56,000
Black	150	150	130	S	S	S	S	S
Hispanic	250	240	160	S	S	S	S	70,000
American Indian/Alaskan Native	S	S	S	S	S	S	S	S
No disability	5,540	5,350	3,290	100	1,960	S	160	50,000
With disability	S	S	S	S	S	S	S	S
Psychology	5,040	4,840	3,440	360	1,030	S	150	45,000
Female	3,480	3,290	2,220	320	760	S	140	42,000
Male	1,560	1,550	1,230	S	280	S	S	45,000
White	4,100	3,950	2,890	250	810	S	100	44,000
Asian/Pacific Islander	290	270	160	S	70	S	S	45,000
Black	300	300	170	S	80	S	S	40,000
Hispanic	300	270	190	S	70	S	S	45,000
American Indian/Alaskan Native	S	50	S	S	S	S	S	S
No disability	4,900	4,710	3,400	340	980	S	140	45,000
With disability	140	130	S	S	S	S	S	S
Social sciences	4,740	4,540	3,660	530	350	60	140	48,000
Female	2,120	2,030	1,530	310	190	S	70	46,000
Male	2,620	2,520	2,130	230	160	S	70	51,000
White	3,420	3,240	2,610	420	210	S	130	47,000
Asian/Pacific Islander	610	610	540	S	S	S	S	62,000
Black	410	400	260	S	90	S	S	47,000
Hispanic	210	210	170	S	S	S	S	S
American Indian/Alaskan Native	S	50	S	S	S	S	S	S
No disability	4,520	4,330	3,500	520	320	60	140	50,000
With disability	210	210	160	S	S	S	S	S

TABLE H-15. Employment status and median salary of 1999 and 2000 S&amp;E doctoral degree recipients, by broad field of doctorate, sex, race/ethnicity, and disability status: 2001

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Field, sex, race/ethnicity, and disability status	All recipients	Employed			Not employed		Median salary in dollars for full-time employed <sup>a</sup>	
		Total	Full time	Part time	Postdoc appointment	Seeking work		Not seeking work
Engineering	7,080	6,870	5,980	100	780	100	110	72,000
Female	1,190	1,120	880	S	190	S	60	69,000
Male	5,890	5,750	5,110	S	590	100	S	73,000
White	3,610	3,460	2,950	S	460	80	60	71,000
Asian/Pacific Islander	2,980	2,910	2,590	S	290	S	S	75,000
Black	240	240	210	S	S	S	S	63,000
Hispanic	240	240	210	S	S	S	S	76,000
American Indian/Alaskan Native	S	S	S	S	S	S	S	S
No disability	6,960	6,750	5,880	90	780	100	110	72,000
With disability	120	120	110	S	S	S	S	S

S suppressed data with weighted cases less than 50 or fewer than 5 respondents and with weighted cases less than 200 for salary data.

<sup>a</sup> Salary data for those whose principal job was less than 35 hours per week are not included. Salary data are for principal job only.

NOTES: Figures are rounded to nearest 10 and median salaries to nearest 1,000. Details may not add to totals because of rounding. Total includes "other race/ethnicity" not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-16. Median annual salary of S&E doctorate holders employed full time, by broad occupation, age group, and sex: 2001  
(Dollars)

Occupation and age in years	Total	Female	Male
All occupations	77,000	62,000	81,000
29 and younger	52,000	46,000	58,000
30-39	65,000	52,300	70,000
40-49	76,000	65,000	80,000
50 and older	85,000	70,000	90,000
S&E occupations	75,000	60,000	78,000
29 and younger	50,000	45,500	56,000
30-39	63,000	51,000	68,100
40-49	74,000	63,000	77,600
50 and older	82,000	69,000	85,000
Scientists	70,000	60,000	75,000
29 and younger	44,000	40,000	45,000
30-39	56,600	50,000	61,700
40-49	70,000	62,000	73,000
50 and older	80,000	68,000	81,000
Computer and mathematical scientists	80,000	72,500	83,000
29 and younger	62,000	65,000	61,100
30-39	79,000	72,000	80,000
40-49	82,000	73,000	85,000
50 and older	84,000	75,000	85,000
Life and related scientists	67,000	58,000	70,000
29 and younger	32,000	32,000	31,000
30-39	48,000	43,000	52,000
40-49	68,300	64,000	70,000
50 and older	80,000	72,000	83,000
Physical and related scientists	77,000	62,600	80,000
29 and younger	48,000	S	45,000
30-39	61,000	54,000	64,000
40-49	77,000	70,000	78,000
50 and older	88,000	70,000	89,000
Social and related scientists	64,000	57,000	69,000
29 and younger	45,500	44,000	54,000
30-39	51,000	50,000	54,000
40-49	61,000	57,000	65,000
50 and older	72,000	63,400	75,000
Engineers	88,000	80,000	89,000
29 and younger	72,000	72,000	72,000
30-39	80,000	79,000	80,000
40-49	89,000	85,000	89,000
50 and older	100,000	84,000	100,000
Non-S&E occupations	90,200	69,000	100,000
29 and younger	63,000	S	65,000
30-39	75,000	60,000	81,000
40-49	92,000	70,000	102,000
50 and older	96,100	71,500	104,000

S suppressed because fewer than 200 weighted cases

NOTES: Salaries rounded to nearest 100. Table limited to those who earned a doctorate in an S&E field from a U.S. institution.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-17. Median annual salary of S&amp;E doctorate holders employed full time, by sex, broad occupation, age, and race/ethnicity: 2001

(Dollars)

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Sex, occupation, age in years, and race/ethnicity	Total	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other
<b>Both sexes</b>							
All occupations	77,000	77,000	80,000	67,000	69,000	64,000	45,000
29 and younger	52,000	48,000	75,000	S	S	S	S
30-39	65,000	60,000	73,500	60,000	58,000	58,500	S
40-49	76,000	76,000	80,000	61,000	67,000	61,000	S
50 and older	85,000	85,000	89,000	75,000	80,000	73,000	S
S&E occupations	75,000	75,000	77,600	63,000	67,500	63,000	46,000
29 and younger	50,000	47,000	72,000	S	S	S	S
30-39	63,000	60,000	72,000	58,000	58,000	58,500	S
40-49	74,000	74,000	80,000	59,600	65,400	56,000	S
50 and older	82,000	82,300	85,000	75,000	80,000	73,000	S
Scientists	70,000	70,000	71,500	61,000	65,000	60,000	S
29 and younger	44,000	43,900	62,000	S	S	S	S
30-39	56,600	54,000	76,000	52,000	55,000	58,500	S
40-49	70,000	70,000	72,500	57,000	63,500	51,000	S
50 and older	80,000	80,000	80,000	73,000	78,000	65,000	S
Computer and mathematical scientists	80,000	80,000	85,000	70,000	78,000	S	S
29 and younger	62,000	50,000	80,000	S	S	S	S
30-39	79,000	72,000	84,000	73,000	75,800	S	S
40-49	82,000	80,000	85,000	72,000	90,000	S	S
50 and older	84,000	85,000	83,200	67,000	70,000	S	S
Life and related scientists	67,000	69,500	60,000	60,000	57,000	62,400	S
29 and younger	32,000	31,500	S	S	S	S	S
30-39	48,000	48,000	50,000	48,500	45,000	S	S
40-49	68,300	70,000	63,000	60,000	57,000	S	S
50 and older	80,000	80,000	77,200	73,000	87,000	S	S
Physical and related scientists	77,000	78,300	74,000	67,500	74,000	55,400	S
29 and younger	48,000	48,000	S	S	S	S	S
30-39	61,000	60,000	67,400	63,000	70,000	S	S
40-49	77,000	78,000	75,000	45,000	72,000	S	S
50 and older	88,000	89,000	83,000	73,000	86,000	S	S
Social and related scientists	64,000	65,000	59,000	59,000	59,200	58,400	S
29 and younger	45,500	46,000	S	S	S	S	S
30-39	51,000	50,400	55,000	51,300	53,000	S	S
40-49	61,000	62,000	59,000	55,000	58,000	S	S
50 and older	72,000	71,900	71,000	76,000	73,000	64,000	S
Engineers	88,000	90,000	87,000	80,000	78,000	S	S
29 and younger	72,000	71,000	75,000	S	S	S	S
30-39	80,000	78,000	84,000	80,000	74,000	S	S
40-49	89,000	90,000	89,500	71,900	75,000	S	S
50 and older	100,000	100,000	93,000	85,000	85,800	S	S
Non-S&E occupations	90,200	92,000	95,000	70,000	76,200	64,000	S
29 and younger	63,000	55,000	S	S	S	S	S
30-39	75,000	72,000	90,000	60,000	65,000	S	S
40-49	92,000	93,000	96,000	70,000	77,300	S	S
50 and older	96,100	98,000	100,000	74,000	82,000	98,000	S
<b>Female</b>							
All occupations	62,000	62,000	65,000	60,000	55,000	64,000	S
29 and younger	46,000	46,000	70,000	S	S	S	S

TABLE H-17. Median annual salary of S&amp;E doctorate holders employed full time, by sex, broad occupation, age, and race/ethnicity: 2001

(Dollars)

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Sex, occupation, age in years, and race/ethnicity	Total	White	Asian/ Islander	Black	Hispanic	American Indian/ Alaskan Native	Other
30-39	52,300	50,800	60,000	51,300	50,000	S	S
40-49	65,000	64,800	70,000	59,000	58,000	S	S
50 and older	70,000	70,000	73,300	71,000	56,800	72,000	S
S&E occupations	60,000	60,000	65,000	56,000	54,000	65,000	S
29 and younger	45,500	44,000	70,000	S	S	S	S
30-39	51,000	50,000	60,000	51,300	50,000	S	S
40-49	63,000	62,500	70,000	53,200	57,000	S	S
50 and older	69,000	69,400	72,000	72,100	56,000	S	S
Scientists	60,000	60,000	62,000	54,000	54,000	65,000	S
29 and younger	40,000	40,000	60,000	36,300	30,000	S	S
30-39	50,000	48,500	56,000	48,000	47,100	S	S
40-49	62,000	60,500	70,000	53,200	57,000	S	S
50 and older	68,000	68,000	70,000	72,000	56,000	S	S
Computer and mathematical scientists	72,500	70,000	79,000	71,000	S	S	S
29 and younger	65,000	S	S	S	S	S	S
30-39	72,000	65,000	80,000	S	S	S	S
40-49	73,000	75,000	72,000	S	S	S	S
50 and older	75,000	75,000	74,600	S	S	S	S
Life and related scientists	58,000	60,000	56,000	55,000	50,000	S	S
29 and younger	32,000	32,000	S	S	S	S	S
30-39	43,000	42,400	45,000	39,900	42,000	S	S
40-49	64,000	64,000	65,000	59,000	57,000	S	S
50 and older	72,000	72,000	65,000	S	S	S	S
Physical and related scientists	62,600	60,000	69,500	S	57,900	S	S
29 and younger	S	S	S	S	S	S	S
30-39	54,000	52,500	59,000	S	S	S	S
40-49	70,000	67,400	74,000	S	S	S	S
50 and older	70,000	70,000	75,000	S	S	S	S
Social and related scientists	57,000	58,000	52,400	52,000	55,000	S	S
29 and younger	44,000	44,000	S	S	S	S	S
30-39	50,000	50,000	50,000	50,000	52,500	S	S
40-49	57,000	58,000	54,000	50,000	57,000	S	S
50 and older	63,400	64,000	S	70,000	56,000	S	S
Engineers	80,000	80,000	77,500	S	S	S	S
29 and younger	72,000	S	S	S	S	S	S
30-39	79,000	79,800	75,000	S	S	S	S
40-49	85,000	85,000	87,000	S	S	S	S
50 and older	84,000	87,000	S	S	S	S	S
Non-S&E occupations	69,000	70,000	70,000	62,800	65,000	S	S
29 and younger	S	S	S	S	S	S	S
30-39	60,000	60,000	63,000	58,000	54,000	S	S
40-49	70,000	70,000	75,000	64,000	77,300	S	S
50 and older	71,500	72,000	74,000	69,000	65,000	S	S
Male							
All occupations	81,000	82,000	82,000	70,000	75,000	63,000	S
29 and younger	58,000	50,000	76,000	S	S	S	S
30-39	70,000	67,000	78,000	63,000	68,000	58,500	S
40-49	80,000	80,000	83,000	66,000	71,500	60,000	S



TABLE H-17. Median annual salary of S&amp;E doctorate holders employed full time, by sex, broad occupation, age, and race/ethnicity: 2001

(Dollars)

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Sex, occupation, age in years, and race/ethnicity	Total	White	Asian/ Islander Pacific	Black	Hispanic	American Indian/ Alaskan Native	Other
50 and older	90,000	90,000	90,000	76,100	86,000	73,000	S
S&E occupations	78,000	78,000	80,000	68,000	73,000	62,000	S
29 and younger	56,000	48,000	74,000	S	S	S	S
30-39	68,100	65,000	75,000	62,500	67,000	58,500	S
40-49	77,600	77,000	80,000	60,000	70,900	S	S
50 and older	85,000	85,000	86,000	75,000	83,000	73,000	S
Scientists	75,000	75,000	75,000	64,900	70,200	S	S
29 and younger	45,000	44,500	62,000	S	S	S	S
30-39	61,700	59,000	70,000	60,000	58,000	S	S
40-49	73,000	74,000	75,000	59,000	67,000	S	S
50 and older	81,000	82,000	80,000	75,000	83,000	64,000	S
Computer and mathematical scientists	83,000	82,100	85,000	70,000	80,500	S	S
29 and younger	61,100	50,000	S	S	S	S	S
30-39	80,000	75,000	84,000	S	81,000	S	S
40-49	85,000	82,100	88,000	75,500	90,000	S	S
50 and older	85,000	85,000	85,000	67,000	70,000	S	S
Life and related scientists	70,000	72,000	62,000	62,000	65,000	60,000	S
29 and younger	31,000	30,500	S	S	S	S	S
30-39	52,000	51,000	54,500	50,000	55,000	S	S
40-49	70,000	71,000	61,200	60,000	60,000	S	S
50 and older	83,000	83,100	78,000	72,000	97,000	S	S
Physical and related scientists	80,000	80,000	75,400	68,100	75,000	55,400	S
29 and younger	45,000	45,000	S	S	S	S	S
30-39	64,000	61,500	70,000	64,900	70,200	S	S
40-49	78,000	80,000	76,000	45,000	75,000	S	S
50 and older	89,000	90,000	84,000	73,000	86,000	S	S
Social and related scientists	69,000	70,000	63,000	62,000	65,000	58,400	S
29 and younger	54,000	54,000	S	S	S	S	S
30-39	54,000	53,000	61,500	55,000	53,000	S	S
40-49	65,000	67,000	62,000	59,000	60,000	S	S
50 and older	75,000	75,000	74,000	78,200	80,000	60,000	S
Engineers	89,000	90,000	88,000	80,000	76,000	S	S
29 and younger	72,000	71,500	S	S	S	S	S
30-39	80,000	78,000	84,000	80,000	72,000	S	S
40-49	89,000	90,000	89,500	71,900	75,000	S	S
50 and older	100,000	100,000	95,000	86,000	85,800	S	S
Non-S&E occupations	100,000	100,000	100,000	79,000	85,000	75,900	S
29 and younger	65,000	52,000	S	S	S	S	S
30-39	81,000	78,400	95,000	70,000	75,000	S	S
40-49	102,000	103,000	100,000	80,000	82,000	S	S
50 and older	104,000	105,000	101,000	77,000	105,000	S	S

S suppressed because fewer than 200 weighted cases

NOTES: Salaries rounded to nearest 100. Table limited to those who earned a doctorate in an S&amp;E field from a U.S. institution.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-18. Median annual salary of S&E doctorate holders employed full time, by broad occupation, age, and disability status: 2001  
(Dollars)

Occupation and age in years	All doctorate		
	holders	No disability	With disability
All occupations	77,000	77,000	78,000
29 and younger	52,000	52,000	S
30-39	65,000	65,000	60,000
40-49	76,000	77,000	72,000
50 and older	85,000	85,000	81,000
S&E occupations	75,000	75,000	75,600
29 and younger	50,000	50,000	S
30-39	63,000	63,000	57,000
40-49	74,000	74,300	70,000
50 and older	82,000	82,500	80,000
Scientists	70,000	70,000	72,000
29 and younger	44,000	43,900	S
30-39	56,600	56,700	55,900
40-49	70,000	70,000	67,000
50 and older	80,000	80,000	78,000
Computer and mathematical scientists	80,000	80,700	80,000
29 and younger	62,000	62,000	S
30-39	79,000	79,000	70,000
40-49	82,000	82,200	73,800
50 and older	84,000	84,000	84,000
Life and related scientists	67,000	67,000	70,000
29 and younger	32,000	32,000	S
30-39	48,000	48,000	47,000
40-49	68,300	68,000	70,000
50 and older	80,000	80,000	74,000
Physical and related scientists	77,000	76,200	83,000
29 and younger	48,000	48,000	S
30-39	61,000	61,000	S
40-49	77,000	77,000	80,000
50 and older	88,000	88,400	85,000
Social and related scientists	64,000	63,000	67,000
29 and younger	45,500	45,000	S
30-39	51,000	51,000	45,500
40-49	61,000	62,000	58,600
50 and older	72,000	71,000	74,000
Engineers	88,000	88,000	92,000
29 and younger	72,000	72,000	S
30-39	80,000	80,000	72,000
40-49	89,000	89,000	85,000
50 and older	100,000	100,000	100,000
Non-S&E occupations	90,200	91,100	84,000
29 and younger	63,000	63,000	S
30-39	75,000	75,000	74,000
40-49	92,000	92,000	86,000
50 and older	96,100	98,000	84,000

S suppressed because fewer than 200 weighted cases

NOTES: Salaries rounded to nearest 100. Table limited to those who earned a doctorate in an S&E field from a U.S. institution. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-19. Employed S&E doctorate holders, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2001

Sector and occupation	Total	Sex		Race/ethnicity					Disability status	
				White	Asian/ Pacific Islander	Black	Hispanic	American	No disability	With disability
		Indian/ Alaskan Native								
All sectors	574,890	147,110	427,770	454,940	87,770	15,050	15,020	1,840	539,260	35,630
S&E occupations	427,740	105,400	322,330	334,210	70,010	9,980	11,920	1,390	402,340	25,400
Scientists	352,320	99,320	252,990	283,850	48,130	8,780	10,140	1,230	331,380	20,930
Computer and information scientists	34,660	4,720	29,950	21,950	11,340	600	710	S	33,000	1,670
Mathematicians	21,900	4,460	17,450	16,880	3,810	540	610	S	20,580	1,320
Life and related scientists	107,850	32,210	75,640	85,150	17,240	2,150	3,000	280	102,050	5,800
Physical and related scientists	73,840	10,280	63,560	59,870	10,660	1,190	1,840	240	69,940	3,900
Psychologists	66,860	33,280	33,590	60,450	1,480	2,280	2,260	370	62,260	4,600
Social scientists	47,200	14,380	32,820	39,560	3,600	2,020	1,710	250	43,550	3,660
Engineers	75,420	6,080	69,340	50,360	21,880	1,200	1,780	160	70,960	4,470
Non-S&E occupations	147,150	41,710	105,440	120,730	17,760	5,070	3,100	450	136,920	10,230
Business or industry	198,370	35,260	163,100	141,100	49,170	3,480	4,090	450	187,950	10,420
S&E occupations	136,010	24,000	112,000	92,750	37,570	2,240	3,070	330	129,290	6,720
Scientists	92,720	20,580	72,130	66,980	21,530	1,700	2,210	270	88,160	4,560
Computer and information scientists	23,160	3,110	20,050	13,250	9,020	370	470	S	22,230	930
Life and related scientists	23,190	6,310	16,890	16,960	5,040	440	650	110	22,220	980
Mathematicians	3,820	790	3,030	2,350	1,240	140	80	S	3,660	160
Physical and related scientists	25,940	3,410	22,530	19,520	5,580	360	430	S	24,530	1,410
Psychologists	12,440	5,900	6,540	11,560	200	320	280	80	11,620	810
Social scientists	4,160	1,070	3,100	3,330	450	80	300	S	3,900	260
Engineers	43,290	3,420	39,870	25,770	16,040	540	860	60	41,130	2,160
Non-S&E occupations	62,360	11,260	51,100	48,350	11,600	1,240	1,020	120	58,660	3,700
Federal Government	38,050	8,220	29,830	31,940	4,180	970	810	130	36,060	1,990
S&E occupations	29,860	6,140	23,720	24,840	3,660	550	690	S	28,430	1,430
Scientists	24,990	5,740	19,250	20,920	2,880	490	580	S	23,740	1,250
Computer and information scientists	1,080	150	930	830	210	S	S	S	1,050	S
Life and related scientists	9,390	2,780	6,610	7,680	1,300	210	160	S	8,770	620
Mathematicians	1,490	320	1,170	1,150	270	S	S	S	1,360	130
Physical and related scientists	7,880	860	7,020	6,720	830	90	210	S	7,580	300
Psychologists	1,970	720	1,250	1,790	S	S	100	S	1,910	60
Social scientists	3,190	910	2,280	2,750	270	120	60	S	3,080	110
Engineers	4,870	400	4,470	3,920	780	60	110	S	4,690	180
Non-S&E occupations	8,190	2,080	6,110	7,100	520	420	120	S	7,630	560
Nonprofit	28,430	10,310	18,120	24,420	2,690	530	650	130	26,910	1,520
S&E occupations	18,140	6,190	11,950	15,370	2,000	170	490	100	17,220	920
Scientists	16,040	5,930	10,100	13,860	1,530	70	400	80	15,430	610
Computer and information scientists	870	80	790	610	220	S	S	S	840	S
Life and related scientists	4,110	1,410	2,700	3,540	460	S	70	S	4,020	80
Mathematicians	820	220	600	680	100	S	S	S	780	S
Physical and related scientists	2,580	350	2,230	2,230	320	S	S	S	2,460	120
Psychologists	5,920	3,030	2,880	5,280	230	70	260	80	5,630	280
Social scientists	1,750	840	910	1,510	190	S	S	S	1,700	S
Engineers	2,100	260	1,850	1,510	470	S	90	S	1,790	310
Non-S&E occupations	10,290	4,120	6,170	9,050	690	360	160	S	9,690	600
Self-employed	30,420	11,920	18,500	28,000	1,300	420	600	90	28,240	2,180
S&E occupations	21,550	9,440	12,110	20,080	660	300	420	90	19,980	1,570
Scientists	19,630	9,340	10,300	18,390	480	260	310	60	18,160	1,470
Computer and information scientists	790	160	630	660	100	S	S	S	760	S
Life and related scientists	1,620	430	1,190	1,450	100	S	S	S	1,480	130
Mathematicians	280	130	150	270	S	S	S	S	280	S

TABLE H-19. Employed S&amp;E doctorate holders, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2001

Sector and occupation	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian/ Pacific Islander	Black	Hispanic	American	No disability	With disability
								Indian/ Alaskan Native		
Physical and related scientists	1,130	S	1,110	1,010	120	S	S	S	1,030	90
Psychologists	14,800	8,220	6,580	14,020	140	260	310	60	13,630	1,160
Social scientists	1,020	390	640	980	S	S	S	S	970	S
Engineers	1,920	100	1,810	1,690	180	S	S	S	1,820	100
Non-S&E occupations	8,870	2,480	6,390	7,920	640	120	180	S	8,260	610
State/local government	16,580	4,560	12,020	13,750	1,680	620	440	90	15,670	920
S&E occupations	10,770	2,980	7,790	8,980	1,040	370	350	30	10,300	480
Scientists	9,710	2,830	6,880	8,290	730	280	280	S	9,300	410
Computer and information scientists	380	140	240	200	150	S	S	S	360	S
Life and related scientists	1,960	500	1,460	1,780	110	S	S	S	1,930	S
Mathematicians	240	S	190	210	S	S	S	S	240	S
Physical and related scientists	1,670	160	1,510	1,330	190	S	140	S	1,630	S
Psychologists	4,470	1,720	2,750	3,990	110	220	140	S	4,200	280
Social scientists	990	260	730	780	130	60	S	S	940	S
Engineers	1,060	150	910	690	310	S	S	S	1,000	70
Non-S&E occupations	5,810	1,580	4,230	4,770	640	250	90	60	5,370	440
Universities and 4-year colleges	245,060	69,520	175,530	200,490	27,730	8,000	7,830	840	227,780	17,280
S&E occupations	200,390	52,570	147,810	162,700	24,300	5,950	6,580	700	186,920	13,470
Scientists	178,460	50,860	127,590	146,090	20,280	5,420	5,910	620	166,630	11,820
Computer and information scientists	8,080	1,030	7,060	6,190	1,550	170	170	S	7,530	560
Life and related scientists	65,400	20,080	45,320	51,770	10,080	1,410	2,040	100	61,600	3,810
Mathematicians	14,410	2,750	11,660	11,510	2,030	330	500	S	13,490	910
Physical and related scientists	32,190	5,110	27,090	26,960	3,440	620	970	160	30,410	1,790
Psychologists	23,510	11,490	12,020	20,530	700	1,210	970	80	21,810	1,710
Social scientists	34,850	10,410	24,450	29,140	2,470	1,670	1,260	240	31,800	3,050
Engineers	21,930	1,710	20,220	16,610	4,020	530	670	80	20,290	1,650
Non-S&E occupations	44,670	16,950	27,720	37,790	3,430	2,050	1,250	140	40,860	3,810
Other educational institutions	17,980	7,320	10,660	15,250	1,020	1,030	600	90	16,650	1,330
S&E occupations	11,020	4,090	6,940	9,500	790	400	330	30	10,200	830
Scientists	10,770	4,000	6,730	9,330	710	340	270	S	9,950	810
Computer and information scientists	300	S	260	210	90	S	S	S	230	70
Life and related scientists	2,180	710	1,470	1,980	150	S	S	S	2,030	140
Mathematicians	840	200	650	700	130	S	S	S	760	80
Physical and related scientists	2,460	390	2,070	2,100	170	110	70	S	2,310	150
Psychologists	3,750	2,190	1,570	3,280	80	170	200	S	3,460	290
Social scientists	1,230	510	720	1,070	70	60	S	S	1,150	80
Engineers	250	S	210	170	80	S	S	S	250	S
Non-S&E occupations	6,960	3,230	3,720	5,750	230	630	270	60	6,450	500

S suppressed because fewer than 50 weighted cases

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-20. S&E doctorate holders employed in academic institutions, by institution type, sex, race/ethnicity, and disability status: 2001

Institution type	Total	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	No	With
									disability	disability
Number of doctorate holders										
All institutions	263,030	76,840	186,190	215,740	28,740	9,020	8,430	930	244,430	18,610
Preschool, elementary school, or middle school	3,410	2,080	1,330	2,870	120	250	170	S	3,180	230
Secondary school	5,000	2,140	2,870	4,190	150	400	200	60	4,600	400
2-year college, junior college, or technical institute	9,560	3,100	6,460	8,180	740	380	230	S	8,870	690
4-year college or university	170,880	44,900	125,980	143,090	16,160	5,890	5,020	620	158,320	12,570
Medical school	43,710	15,800	27,910	33,630	7,380	1,280	1,340	80	41,540	2,170
University research institute	27,670	7,820	19,850	21,650	3,750	820	1,270	140	25,330	2,340
Other	2,790	1,000	1,790	2,120	440	S	210	S	2,590	200
Percent distribution										
All institutions	100	100	100	100	100	100	100	100	100	100
Preschool, elementary school, or middle school	1.3	2.7	0.7	1.3	0.4	2.8	2.0	S	1.3	1.3
Secondary school	1.9	2.8	1.5	1.9	0.5	4.4	2.4	6.0	1.9	2.2
2-year college, junior college, or technical institute	3.6	4.0	3.5	3.8	2.6	4.2	2.7	S	3.6	3.7
4-year college or university	65.0	58.4	67.7	66.3	56.2	65.2	59.5	66.0	64.8	67.5
Medical school	16.6	20.6	15.0	15.6	25.7	14.2	15.9	8.2	17.0	11.7
University research institute	10.5	10.2	10.7	10.0	13.0	9.1	15.1	15.4	10.4	12.6
Other	1.1	1.3	1.0	1.0	1.5	S	2.5	S	1.1	1.1

S suppressed because fewer than 50 weighted cases

NOTES: Table limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-21. S&amp;E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2001

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Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	245,060	86,400	52,920	47,790	14,610	43,330
Female	69,520	13,380	15,660	18,580	6,180	15,730
Fewer than 10	34,160	710	4,220	14,380	3,620	11,240
10-19	21,120	4,900	8,610	3,560	1,480	2,560
20-29	11,370	5,890	2,460	620	850	1,560
30 or more	2,870	1,880	370	S	240	370
Male	175,530	73,020	37,260	29,210	8,440	27,610
Fewer than 10	51,850	930	8,110	22,980	3,870	15,950
10-19	44,120	15,250	17,750	4,670	1,640	4,810
20-29	47,050	31,020	8,850	1,190	1,370	4,610
30 or more	32,520	25,820	2,560	370	1,560	2,230
S&E occupations	200,390	69,960	44,300	40,740	12,250	33,130
Female	52,580	9,490	11,630	14,470	5,010	11,980
Fewer than 10	26,680	300	2,830	11,150	2,970	9,430
10-19	15,440	3,310	6,470	2,870	1,200	1,580
20-29	8,320	4,550	1,960	440	660	710
30 or more	2,150	1,320	370	S	190	260
Male	102,490	43,920	23,340	17,710	5,310	12,220
Fewer than 10	74,750	19,310	17,230	20,650	3,890	13,670
10-19	42,470	8,060	10,090	10,550	2,440	11,320
20-29	38,470	20,900	10,010	2,960	1,330	3,270
30 or more	30,390	22,930	3,950	630	1,230	1,650
Scientists	133,130	44,190	29,830	28,170	9,420	21,510
Female	50,860	9,240	11,140	13,910	4,880	11,690
Fewer than 10	25,560	290	2,650	10,600	2,840	9,180
10-19	14,930	3,150	6,160	2,870	1,200	1,540
20-29	8,240	4,480	1,960	440	660	710
30 or more	2,140	1,320	370	S	190	260
Male	82,270	34,950	18,690	14,260	4,540	9,820
Fewer than 10	68,580	19,240	15,800	17,440	3,740	12,360
10-19	37,110	5,750	7,810	10,350	2,260	10,950
20-29	33,660	17,450	9,220	2,930	1,190	2,860
30 or more	26,510	19,790	3,810	630	940	1,340
Computer and information scientists	8,080	2,240	2,690	1,270	290	1,600
Female	1,030	130	430	230	60	180
Fewer than 10	520	S	170	190	S	100
10-19	350	70	160	S	S	50
20-29	130	S	70	S	S	S
30 or more	S	S	S	S	S	S
Male	7,060	2,110	2,260	1,040	230	1,420
Fewer than 10	2,720	110	800	940	100	770
10-19	1,690	590	680	S	90	320
20-29	1,960	980	620	S	S	280
30 or more	680	430	170	S	S	S
Life and related scientists	65,400	19,670	13,080	13,080	3,520	16,060
Female	20,080	3,110	3,750	4,510	1,600	7,110
Fewer than 10	10,270	130	520	2,780	1,000	5,840
10-19	6,000	940	2,400	1,490	350	820
20-29	2,890	1,470	660	230	240	290
30 or more	910	570	160	S	S	160

TABLE H-21. S&amp;E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2001

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Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Male	45,320	16,560	9,330	8,570	1,930	8,940
Fewer than 10	15,670	280	1,220	5,900	1,210	7,060
10-19	11,770	3,050	5,020	2,270	330	1,090
20-29	10,840	7,390	2,380	340	130	600
30 or more	7,050	5,830	710	60	260	200
Mathematical scientists	14,410	5,820	3,640	2,860	1,230	860
Female	2,750	530	780	940	290	210
Fewer than 10	1,440	S	310	790	160	140
10-19	680	200	240	90	100	S
20-29	500	240	180	50	S	S
30 or more	130	S	60	S	S	S
Male	11,660	5,300	2,850	1,920	940	650
Fewer than 10	3,190	60	590	1,610	520	410
10-19	2,640	1,020	1,290	150	S	160
20-29	2,960	1,960	660	80	190	80
30 or more	2,860	2,260	310	90	200	S
Physical and related scientists	32,190	11,860	6,210	5,740	1,880	6,510
Female	5,110	980	1,080	1,550	500	1,000
Fewer than 10	2,530	S	290	1,180	250	810
10-19	1,620	400	730	350	90	60
20-29	590	370	S	S	80	80
30 or more	370	210	S	S	90	S
Male	27,090	10,880	5,130	4,180	1,380	5,510
Fewer than 10	7,380	2,350	2,860	570	370	1,220
10-19	7,980	160	850	3,500	520	2,940
20-29	5,760	3,680	920	80	190	890
30 or more	5,970	4,690	500	S	300	460
Psychologists	23,510	7,210	4,840	5,890	1,990	3,590
Female	11,490	1,990	2,320	3,460	1,300	2,420
Fewer than 10	5,980	S	660	2,790	760	1,770
10-19	3,170	670	1,110	640	300	450
20-29	1,960	1,060	440	S	240	180
30 or more	390	260	100	S	S	S
Male	12,020	5,220	2,520	2,430	690	1,170
Fewer than 10	3,190	S	470	1,730	300	690
10-19	2,970	970	1,240	400	170	190
20-29	3,370	2,330	530	270	50	180
30 or more	2,500	1,920	280	S	170	100
Social scientists	34,850	13,950	8,720	7,900	2,440	1,840
Female	10,410	2,500	2,790	3,220	1,140	760
Fewer than 10	4,810	90	690	2,860	640	530
10-19	3,110	880	1,520	250	340	120
20-29	2,170	1,310	580	100	80	110
30 or more	310	230	S	S	80	S
Male	24,450	11,450	5,930	4,690	1,300	1,080
Fewer than 10	6,790	160	1,760	4,020	520	330
10-19	6,170	2,730	2,540	390	240	280
20-29	7,840	5,460	1,470	180	390	350
30 or more	3,660	3,110	160	110	150	130

TABLE H-21. S&amp;E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2001

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Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Engineers	21,930	9,210	5,130	4,010	910	2,680
Female	1,710	250	480	560	140	290
Fewer than 10	1,120	S	180	550	130	240
10-19	510	160	300	S	S	S
20-29	80	80	S	S	S	S
30 or more	S	S	S	S	S	S
Male	20,220	8,960	4,640	3,450	770	2,390
Fewer than 10	6,170	60	1,430	3,220	150	1,310
10-19	5,360	2,320	2,290	200	190	370
20-29	4,810	3,450	790	S	140	400
30 or more	3,880	3,140	140	S	290	310
Non-S&E occupations	44,670	16,440	8,620	7,050	2,360	10,200
Female	16,950	3,890	4,030	4,110	1,160	3,750
Fewer than 10	7,490	410	1,390	3,230	650	1,810
10-19	5,680	1,590	2,150	690	280	980
20-29	3,050	1,340	500	180	190	850
30 or more	730	560	S	S	S	110
Male	27,720	12,550	4,590	2,940	1,200	6,440
Fewer than 10	6,150	90	1,000	2,070	530	2,450
10-19	6,150	2,220	1,840	680	230	1,170
20-29	9,510	5,780	1,480	160	240	1,840
30 or more	5,920	4,450	280	S	190	980

S suppressed because fewer than 50 weighted cases

NOTES: Table limited to those who earned a doctorate in an S&amp;E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.



TABLE H-22. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by race/ethnicity and faculty rank: 2001

Page 1 of 2

Occupation and race/ethnicity	All faculty	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	245,060	86,400	52,920	47,790	14,610	43,330
White	200,490	75,190	43,620	37,070	11,960	32,650
Asian/Pacific Islander	27,730	6,790	5,160	6,510	1,630	7,620
Black	8,000	1,790	2,150	2,140	460	1,460
Hispanic	7,830	2,300	1,780	1,780	510	1,470
American Indian/Alaskan Native	840	310	200	200	S	110
S&E occupations	223,120	77,190	47,790	43,790	13,710	40,650
White	183,880	68,370	39,760	34,100	11,220	30,440
Asian/Pacific Islander	23,700	4,870	4,280	5,810	1,480	7,260
Black	7,460	1,630	1,910	2,020	450	1,450
Hispanic	7,160	2,020	1,630	1,620	510	1,390
American Indian/Alaskan Native	770	270	200	170	S	90
Scientists	201,190	67,970	42,660	39,780	12,800	37,980
White	167,270	61,560	35,900	31,120	10,470	28,230
Asian/Pacific Islander	19,680	2,940	3,390	5,110	1,330	6,900
Black	6,930	1,470	1,680	1,910	440	1,430
Hispanic	6,500	1,750	1,490	1,450	510	1,300
American Indian/Alaskan Native	690	230	200	150	S	80
Computer and information scientists	8,080	2,240	2,690	1,270	290	1,600
White	6,190	1,790	2,010	930	210	1,250
Asian/Pacific Islander	1,550	330	550	300	50	320
Black	170	S	80	S	S	S
Hispanic	170	70	50	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Life and related scientists	65,400	19,670	13,070	13,080	3,520	16,060
White	51,770	17,630	11,080	9,650	2,690	10,710
Asian/Pacific Islander	10,080	1,390	1,250	2,530	660	4,240
Black	1,410	260	310	400	S	420
Hispanic	2,040	380	410	440	130	670
American Indian/Alaskan Native	100	S	S	50	S	S
Mathematical scientists	14,410	5,820	3,640	2,860	1,230	860
White	11,510	4,930	2,810	2,110	970	690
Asian/Pacific Islander	2,030	590	620	530	200	90
Black	330	90	70	100	50	S
Hispanic	500	190	130	120	S	60
American Indian/Alaskan Native	S	S	S	S	S	S
Physical and related scientists	32,190	11,860	6,210	5,740	1,880	6,510
White	26,960	10,430	5,040	4,770	1,610	5,110
Asian/Pacific Islander	3,440	900	650	600	210	1,090
Black	620	100	200	160	60	110
Hispanic	970	340	280	170	S	180
American Indian/Alaskan Native	160	80	S	S	S	S
Psychologists	23,510	7,210	4,840	5,890	1,980	3,590
White	20,530	6,770	4,100	5,000	1,640	3,020
Asian/Pacific Islander	700	60	140	210	80	210
Black	1,210	150	420	360	60	210
Hispanic	970	180	170	280	200	140
American Indian/Alaskan Native	80	50	S	S	S	S
Social scientists	34,850	13,950	8,720	7,900	2,440	1,840
White	29,140	12,140	7,210	6,110	2,160	1,520
Asian/Pacific Islander	2,470	820	640	840	70	100
Black	1,670	490	380	560	110	140

TABLE H-22. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by race/ethnicity and faculty rank: 2001

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Occupation and race/ethnicity	All faculty	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Hispanic	1,260	410	380	330	70	70
American Indian/Alaskan Native	240	80	100	S	S	S
Engineers	21,930	9,210	5,130	4,010	910	2,680
White	16,610	6,810	3,860	2,980	750	2,210
Asian/Pacific Islander	4,020	1,930	890	700	150	360
Black	530	160	230	120	S	S
Hispanic	670	280	150	160	S	80
American Indian/Alaskan Native	80	S	S	S	S	S
Non-S&E occupations	44,670	16,440	8,620	7,050	2,360	10,200
White	37,790	14,680	7,510	5,520	1,940	8,150
Asian/Pacific Islander	3,430	780	420	790	220	1,230
Black	2,050	510	460	430	120	540
Hispanic	1,250	460	200	270	90	230
American Indian/Alaskan Native	140	S	S	S	S	S

S suppressed because fewer than 50 weighted cases

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers are rounded to nearest 10. Details may not add to total because of rounding. Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-23. S&amp;E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2001

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Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
All occupations	245,050	86,400	52,920	47,790	14,620	43,340
Female	69,520	13,380	15,660	18,580	6,180	15,730
White	55,960	11,820	13,340	14,530	4,830	11,450
Asian/Pacific Islander	7,440	640	990	2,070	790	2,940
Black	3,220	470	750	1,050	170	780
Hispanic	2,660	430	510	850	360	500
American Indian/Alaskan Native	190	S	60	70	S	S
Male	175,530	73,020	37,260	29,210	8,440	27,610
White	144,540	63,360	30,280	22,550	7,140	21,200
Asian/Pacific Islander	20,290	6,150	4,170	4,440	840	4,680
Black	4,950	1,420	1,460	1,110	240	720
Hispanic	5,010	1,770	1,200	910	190	930
American Indian/Alaskan Native	650	290	140	130	S	70
S&E occupations	228,110	82,510	48,890	43,680	13,450	39,580
Female	55,600	9,870	12,190	15,340	5,280	12,920
White	54,670	11,760	13,130	14,140	4,700	10,930
Asian/Pacific Islander	6,290	460	750	1,790	700	2,600
Black	2,730	350	670	860	120	720
Hispanic	2,560	410	470	830	360	480
American Indian/Alaskan Native	190	S	60	70	S	40
Male	151,670	61,860	33,220	26,930	7,390	22,260
White	142,400	62,650	30,070	22,140	7,050	20,490
Asian/Pacific Islander	19,380	5,830	3,950	4,290	820	4,490
Black	4,180	1,080	1,340	1,020	200	550
Hispanic	4,960	1,770	1,200	900	190	900
American Indian/Alaskan Native	650	290	140	130	S	70
Scientists	206,180	73,290	43,760	39,680	12,540	36,900
Female	53,880	9,610	11,710	14,780	5,150	12,630
White	53,370	11,550	12,740	13,700	4,610	10,760
Asian/Pacific Islander	6,010	420	700	1,730	660	2,500
Black	2,670	350	650	840	110	710
Hispanic	2,500	410	460	800	360	470
American Indian/Alaskan Native	190	S	60	70	S	S
Male	131,450	52,900	28,570	23,490	6,620	19,870
White	127,080	56,040	26,600	19,600	6,390	18,450
Asian/Pacific Islander	15,640	3,930	3,120	3,660	710	4,220
Black	3,710	930	1,120	930	200	540
Hispanic	4,350	1,500	1,060	770	190	830
American Indian/Alaskan Native	580	250	140	110	S	60
Computer and information scientists						
Female	1,030	130	430	230	60	180
White	810	80	370	160	50	140
Asian/Pacific Islander	170	S	S	50	S	S
Black	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Male	7,060	2,110	2,260	1,040	230	1,420
White	5,370	1,710	1,640	770	150	1,100

TABLE H-23. S&amp;E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2001

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Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
Asian/Pacific Islander	1,380	290	500	250	S	290
Black	150	S	70	S	S	S
Hispanic	160	70	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Life and related scientists						
Female	20,080	3,110	3,750	4,510	1,600	7,110
White	15,560	2,790	3,280	3,500	1,110	4,870
Asian/Pacific Islander	3,270	180	250	690	370	1,790
Black	450	80	90	120	S	150
Hispanic	780	60	130	190	100	300
American Indian/Alaskan Native	S	S	S	S	S	S
Male	45,320	16,560	9,330	8,570	1,930	8,940
White	36,210	14,840	7,800	6,150	1,580	5,840
Asian/Pacific Islander	6,810	1,210	1,000	1,850	300	2,450
Black	960	180	230	280	S	270
Hispanic	1,260	320	280	250	S	370
American Indian/Alaskan Native	80	S	S	S	S	S
Mathematical scientists						
Female	2,750	530	780	940	290	210
White	1,940	370	580	670	190	130
Asian/Pacific Islander	620	150	160	190	60	50
Black	100	S	S	S	S	S
Hispanic	80	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Male	11,660	5,300	2,850	1,920	940	650
White	9,570	4,560	2,220	1,440	780	560
Asian/Pacific Islander	1,400	440	460	340	130	S
Black	400	190	100	80	S	S
Hispanic	250	90	60	50	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Physical and related scientists						
Female	5,110	980	1,080	1,550	500	1,000
White	4,130	830	980	1,200	400	720
Asian/Pacific Islander	710	90	60	220	80	260
Black	90	S	S	S	S	S
Hispanic	160	60	S	70	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Male	27,090	10,880	5,130	4,180	1,380	5,510
White	22,830	9,600	4,050	3,580	1,210	4,390
Asian/Pacific Islander	2,730	800	590	380	120	830
Black	530	90	180	110	S	90
Hispanic	810	280	270	90	S	170
American Indian/Alaskan Native	140	80	S	S	S	S
Psychologists						
Female	11,490	1,990	2,320	3,460	1,300	2,420
White	9,680	1,810	1,920	2,820	1,110	2,020
Asian/Pacific Islander	430	S	80	140	S	180
Black	790	100	220	340	S	120
Hispanic	570	80	100	150	140	100
American Indian/Alaskan Native	S	S	S	S	S	S

TABLE H-23. S&amp;E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2001

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Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
Male	12,020	5,220	2,520	2,430	690	1,170
White	10,840	4,960	2,180	2,180	520	990
Asian/Pacific Islander	270	60	60	70	S	S
Black	410	S	200	S	60	90
Hispanic	400	100	80	130	60	S
American Indian/Alaskan Native	70	50	S	S	S	S
Social scientists						
Female	10,410	2,500	2,790	3,220	1,140	760
White	8,620	2,220	2,340	2,500	970	590
Asian/Pacific Islander	660	90	140	330	70	S
Black	560	90	130	190	S	110
Hispanic	510	100	170	180	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Male	24,450	11,450	5,930	4,690	1,300	1,080
White	20,530	9,920	4,880	3,610	1,200	930
Asian/Pacific Islander	1,820	740	500	510	S	70
Black	1,110	400	250	360	60	S
Hispanic	760	310	210	150	S	50
American Indian/Alaskan Native	210	80	90	S	S	S
Engineers						
Female	1,710	250	480	560	140	290
White	1,300	210	390	440	90	170
Asian/Pacific Islander	290	S	60	60	S	90
Black	60	S	S	S	S	S
Hispanic	60	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Male	20,220	8,960	4,640	3,450	770	2,390
White	15,310	6,600	3,470	2,540	660	2,040
Asian/Pacific Islander	3,740	1,900	830	640	110	270
Black	470	150	210	100	S	S
Hispanic	610	270	130	140	S	70
American Indian/Alaskan Native	70	S	S	S	S	S
Non-S&E occupations						
Female	16,950	3,890	4,030	4,110	1,160	3,750
White	13,930	3,510	3,470	3,240	890	2,810
Asian/Pacific Islander	1,290	60	210	380	130	520
Black	1,140	190	240	280	90	350
Hispanic	490	110	80	180	50	60
American Indian/Alaskan Native	90	S	S	S	S	S
Male	27,720	12,550	4,590	2,940	1,200	6,440
White	23,870	11,160	4,040	2,280	1,040	5,340
Asian/Pacific Islander	2,140	720	210	410	90	710
Black	910	320	220	150	S	190
Hispanic	760	340	120	90	S	170
American Indian/Alaskan Native	S	S	S	S	S	S

S Suppressed because fewer than 50 weighted cases

NOTES: Table limited to those who earned a doctorate in an S&amp;E field from a U.S. institution. Numbers are rounded to nearest 10. Details may not add to total because of rounding. Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients.

TABLE H-24. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by disability status and faculty rank: 2001

Occupation and disability status	All faculty	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	245,060	86,400	52,920	47,790	14,610	43,330
No disability	227,780	78,490	48,820	45,970	13,370	41,120
With disability	17,280	7,910	4,090	1,820	1,250	2,210
S&E occupations	200,390	69,960	44,300	40,740	12,250	33,130
No disability	186,920	63,580	41,060	39,280	11,250	31,740
With disability	13,470	6,380	3,230	1,470	1,010	1,390
Scientists	178,460	60,750	39,170	36,730	11,340	30,450
No disability	166,630	55,170	36,230	35,430	10,570	29,220
With disability	11,820	5,580	2,930	1,310	790	1,230
Computer and information scientists	8,080	2,240	2,690	1,270	290	1,600
No disability	7,530	2,070	2,430	1,230	270	1,530
With disability	560	170	260	S	S	60
Life and related scientists	65,400	19,670	13,070	13,080	3,520	16,060
No disability	61,600	18,110	12,070	12,520	3,380	15,520
With disability	3,810	1,560	1,010	560	140	540
Mathematical scientists	14,410	5,820	3,640	2,860	1,230	860
No disability	13,490	5,380	3,400	2,760	1,120	840
With disability	910	450	240	110	100	S
Physical and related scientists	32,190	11,860	6,210	5,740	1,880	6,510
No disability	30,410	10,810	5,850	5,600	1,780	6,360
With disability	1,790	1,050	360	130	100	150
Psychologists	23,510	7,210	4,840	5,890	1,980	3,590
No disability	21,810	6,430	4,570	5,760	1,820	3,230
With disability	1,710	780	270	130	160	360
Social scientists	34,850	13,950	8,720	7,900	2,440	1,840
No disability	31,800	12,380	7,920	7,570	2,190	1,740
With disability	3,050	1,570	800	330	250	100
Engineers	21,930	9,210	5,130	4,010	910	2,680
No disability	20,290	8,410	4,830	3,850	680	2,520
With disability	1,650	800	300	160	220	160
Non-S&E occupations	44,670	16,440	8,620	7,050	2,360	10,200
No disability	40,860	14,910	7,760	6,690	2,120	9,380
With disability	3,810	1,530	860	350	240	820

S suppressed because fewer than 50 weighted cases

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-25. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by sex, years since doctorate, and tenure status: 2001

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Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	245,060	122,320	39,070	29,740	53,920
Female	69,520	24,400	13,660	11,510	19,960
Less than 10	34,160	3,630	10,620	7,560	12,360
10-19	21,120	11,240	2,660	2,730	4,490
20-29	11,370	7,580	330	1,020	2,440
30 or more	2,870	1,950	50	200	660
Male	175,530	97,920	25,420	18,240	33,960
Less than 10	51,850	6,470	19,770	9,900	15,720
10-19	44,120	28,860	4,500	3,330	7,430
20-29	47,050	36,450	1,000	2,930	6,670
30 or more	32,520	26,140	150	2,080	4,150
S&E occupations	200,390	101,350	33,380	24,590	41,060
Female	52,570	18,070	10,520	8,850	15,150
Less than 10	26,670	2,310	8,190	5,920	10,270
10-19	15,440	8,250	2,050	2,140	2,990
20-29	8,320	5,970	240	610	1,500
30 or more	2,140	1,540	S	170	390
Male	147,810	83,280	22,870	15,750	25,910
Less than 10	45,700	5,740	18,010	9,000	12,960
10-19	37,970	25,370	3,840	2,980	5,770
20-29	37,540	30,210	900	2,140	4,290
30 or more	26,600	21,960	120	1,630	2,900
Scientists	178,460	88,280	29,410	23,030	37,720
Female	50,860	17,430	9,990	8,720	14,730
Less than 10	25,560	2,150	7,680	5,790	9,930
10-19	14,930	7,820	2,020	2,140	2,950
20-29	8,240	5,920	240	610	1,470
30 or more	2,140	1,540	S	170	390
Male	127,590	70,860	19,430	14,320	22,990
Less than 10	39,530	4,630	15,070	8,240	11,590
10-19	32,610	21,090	3,550	2,740	5,230
20-29	32,730	26,250	710	2,050	3,710
30 or more	22,730	18,890	90	1,290	2,460
Computer and information scientists	8,080	4,230	1,380	800	1,670
Female	1,030	490	230	90	210
Less than 10	520	120	210	70	110
10-19	350	250	S	S	60
20-29	130	100	S	S	S
30 or more	S	S	S	S	S
Male	7,060	3,740	1,150	710	1,460
Less than 10	2,720	590	1,010	350	780
10-19	1,690	1,070	100	160	370
20-29	1,960	1,490	S	160	270
30 or more	680	590	S	S	S
Life and related scientists	65,400	27,020	10,360	11,110	16,920
Female	20,080	5,420	3,290	4,530	6,840
Less than 10	10,270	400	1,950	2,930	4,990
10-19	6,000	2,550	1,160	1,160	1,130
20-29	2,890	1,860	130	340	570
30 or more	910	620	S	100	150

TABLE H-25. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by sex, years since doctorate, and tenure status: 2001

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Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Male	45,320	21,600	7,070	6,570	10,080
Less than 10	15,670	770	4,750	3,890	6,260
10-19	11,770	6,170	2,050	1,380	2,170
20-29	10,840	8,890	230	830	890
30 or more	7,050	5,770	50	470	770
Mathematical scientists	14,410	8,960	1,930	1,690	1,820
Female	2,750	1,070	590	580	500
Less than 10	1,440	200	550	340	350
10-19	680	380	S	170	100
20-29	500	400	S	60	S
30 or more	130	90	S	S	S
Male	11,660	7,890	1,330	1,110	1,320
Less than 10	3,190	540	1,200	800	650
10-19	2,640	2,280	90	S	230
20-29	2,960	2,480	S	190	290
30 or more	2,860	2,590	S	90	150
Physical and related scientists	32,190	16,420	5,050	3,750	6,970
Female	5,110	2,040	1,180	600	1,290
Less than 10	2,530	360	950	290	930
10-19	1,620	1,100	210	160	150
20-29	590	350	S	80	140
30 or more	370	230	S	70	70
Male	27,090	14,380	3,870	3,160	5,680
Less than 10	7,980	870	2,910	1,820	2,370
10-19	7,380	4,620	770	570	1,420
20-29	5,760	4,120	190	320	1,130
30 or more	5,970	4,780	S	450	750
Psychologists	23,510	10,520	3,700	2,920	6,370
Female	11,490	3,480	2,120	1,880	4,020
Less than 10	5,980	440	1,690	1,400	2,460
10-19	3,170	1,370	370	400	1,020
20-29	1,960	1,310	60	80	510
30 or more	390	360	S	S	S
Male	12,020	7,040	1,580	1,040	2,350
Less than 10	3,190	430	1,330	450	970
10-19	2,970	1,840	170	320	640
20-29	3,370	2,670	90	240	370
30 or more	2,500	2,100	S	S	370
Social scientists	34,850	21,120	6,990	2,770	3,980
Female	10,410	4,910	2,580	1,040	1,870
Less than 10	4,810	630	2,330	760	1,080
10-19	3,110	2,170	240	230	480
20-29	2,170	1,910	S	S	210
30 or more	310	210	S	S	100
Male	24,450	16,200	4,420	1,730	2,100
Less than 10	6,790	1,430	3,880	920	550
10-19	6,170	5,110	380	270	400
20-29	7,840	6,600	150	310	770
30 or more	3,660	3,060	S	220	380



TABLE H-25. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by sex, years since doctorate, and tenure status: 2001

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Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Engineers	21,930	13,070	3,970	1,560	3,340
Female	1,710	640	530	130	420
Less than 10	1,120	150	500	130	340
10-19	510	430	S	S	50
20-29	80	50	S	S	S
30 or more	S	S	S	S	S
Male	20,220	12,420	3,440	1,430	2,920
Less than 10	6,170	1,110	2,930	760	1,360
10-19	5,360	4,280	290	240	550
20-29	4,810	3,960	180	90	580
30 or more	3,880	3,070	S	340	430
Non-S&E occupations	44,670	20,970	5,690	5,150	12,860
Female	16,950	6,330	3,140	2,660	4,810
Less than 10	7,490	1,320	2,430	1,640	2,090
10-19	5,680	2,990	610	590	1,500
20-29	3,050	1,610	90	410	940
30 or more	730	410	S	S	280
Male	27,720	14,640	2,550	2,490	8,050
Less than 10	6,150	730	1,760	900	2,760
10-19	6,150	3,490	660	350	1,660
20-29	9,510	6,240	100	790	2,380
30 or more	5,920	4,180	S	450	1,250

S suppressed because fewer than 50 weighted cases

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-26. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by race/ethnicity and tenure status: 2001

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Occupation and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	245,060	122,320	39,070	29,740	53,920
White	200,490	104,660	30,170	23,030	42,640
Asian/Pacific Islander	27,730	10,330	5,200	4,460	7,730
Black	8,000	3,300	1,900	1,030	1,760
Hispanic	7,830	3,490	1,560	1,120	1,650
American Indian/Alaskan Native	840	510	170	70	90
S&E occupations					
Scientists	178,440	88,270	29,410	23,030	37,730
White	146,100	76,490	22,830	17,230	29,530
Asian/Pacific Islander	20,270	6,640	3,940	3,890	5,800
Black	5,410	2,150	1,380	830	1,060
Hispanic	5,910	2,570	1,120	990	1,230
American Indian/Alaskan Native	620	390	110	60	60
Computer and information scientists	8,080	4,230	1,380	800	1,670
White	6,190	3,260	940	680	1,300
Asian/Pacific Islander	1,550	740	390	90	330
Black	170	110	S	S	S
Hispanic	170	110	S	S	S
American Indian/Alaskan Native	S	S	S	S	S
Life and related scientists	65,400	27,020	10,360	11,100	16,920
White	51,770	24,000	7,930	7,850	11,980
Asian/Pacific Islander	10,080	1,980	1,680	2,530	3,880
Black	1,410	480	330	240	360
Hispanic	2,040	540	380	460	670
American Indian/Alaskan Native	100	S	S	S	S
Mathematical scientists	14,410	8,960	1,930	1,690	1,820
White	11,510	7,490	1,290	1,280	1,450
Asian/Pacific Islander	2,030	1,010	400	300	320
Black	330	130	110	70	S
Hispanic	500	300	130	S	S
American Indian/Alaskan Native	S	S	S	S	S
Physical and related scientists	32,190	16,420	5,050	3,750	6,970
White	26,960	14,200	4,130	2,800	5,830
Asian/Pacific Islander	3,440	1,350	530	670	890
Black	620	170	220	130	110
Hispanic	970	580	140	140	110
American Indian/Alaskan Native	160	100	S	S	S
Psychologists	23,510	10,520	3,700	2,920	6,370
White	20,530	9,470	3,170	2,400	5,480
Asian/Pacific Islander	700	210	170	80	250
Black	1,210	450	210	200	340
Hispanic	970	330	140	230	280
American Indian/Alaskan Native	80	60	S	S	S
Social scientists	34,850	21,120	6,990	2,770	3,980
White	29,140	18,070	5,370	2,220	3,490
Asian/Pacific Islander	2,470	1,350	770	220	130
Black	1,670	810	490	180	200
Hispanic	1,260	710	310	100	130
American Indian/Alaskan Native	240	180	S	S	S

TABLE H-26. Occupations of S&E doctorate holders employed in universities and 4-year colleges, by race/ethnicity and tenure status: 2001

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Occupation and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Engineers	21,930	13,070	3,970	1,560	3,340
White	16,610	9,630	3,030	1,290	2,650
Asian/Pacific Islander	4,020	2,600	630	220	570
Black	530	390	100	S	S
Hispanic	670	410	160	S	90
American Indian/Alaskan Native	80	S	S	S	S
Non-S&E occupations	44,670	20,970	5,690	5,150	12,860
White	37,790	18,520	4,310	4,500	10,460
Asian/Pacific Islander	3,430	1,090	640	350	1,360
Black	2,050	770	430	170	680
Hispanic	1,250	510	280	120	330
American Indian/Alaskan Native	140	80	S	S	S

S suppressed because fewer than 50 weighted cases

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding. Total includes "other race/ethnicity" not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-27. Occupations of S&amp;E doctorate holders employed in universities and 4-year colleges, by disability and tenure status: 2001

Occupation and disability status	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	245,060	122,320	39,070	29,740	53,920
No disability	227,780	111,570	37,560	28,190	50,460
With disability	17,280	10,740	1,510	1,560	3,460
S&E occupations					
Scientists	178,450	88,280	29,410	23,040	37,730
No disability	166,630	80,310	28,520	22,070	35,730
With disability	11,820	7,980	880	970	2,000
Computer and information scientists	8,080	4,230	1,380	800	1,670
No disability	7,530	3,830	1,350	770	1,580
With disability	560	400	S	S	90
Life and related scientists	65,400	27,020	10,360	11,100	16,920
No disability	61,600	24,820	9,920	10,620	16,230
With disability	3,810	2,200	430	480	690
Mathematical scientists	14,410	8,960	1,930	1,690	1,820
No disability	13,490	8,330	1,850	1,590	1,720
With disability	910	640	70	100	100
Physical and related scientists	32,190	16,420	5,050	3,750	6,970
No disability	30,410	15,110	4,960	3,570	6,770
With disability	1,790	1,320	80	180	200
Psychologists	23,510	10,520	3,700	2,920	6,370
No disability	21,810	9,440	3,630	2,850	5,890
With disability	1,710	1,080	80	70	480
Social scientists	34,850	21,120	6,990	2,770	3,980
No disability	31,800	18,780	6,810	2,660	3,540
With disability	3,050	2,340	180	100	430
Engineers	21,930	13,070	3,970	1,560	3,340
No disability	20,290	12,070	3,830	1,400	2,990
With disability	1,650	1,000	140	150	350
Non-S&E occupations	44,670	20,970	5,690	5,150	12,860
No disability	40,860	19,200	5,210	4,710	11,740
With disability	3,810	1,770	490	440	1,120

S suppressed because fewer than 50 weighted cases

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-28. Occupations of Federal scientists and engineers, by sex: 1998–2002

Page 1 of 6

Occupation and sex	1998	1999	2000	2001	2002
All occupations	189,713	186,891	187,396	193,448	206,182
Female	38,257	38,571	39,788	42,508	47,216
Male	151,456	148,320	147,608	150,936	158,962
All scientists	103,483	103,301	104,790	110,291	120,824
Female	29,392	29,886	31,016	33,420	37,497
Male	74,091	73,415	73,774	76,870	83,326
Computer and mathematical sciences	28,073	27,963	28,339	31,525	39,223
Female	8,863	8,906	9,182	10,263	12,940
Male	19,210	19,057	19,157	21,261	26,282
Computer science	3,182	3,287	3,369	3,861	4,306
Female	987	1,017	1,018	1,148	1,266
Male	2,195	2,270	2,351	2,712	3,040
Cryptanalysis	9	12	12	11	8
Female	6	9	9	8	5
Male	3	3	3	3	3
Equipment specialties	1,018	914	893	817	826
Female	111	97	103	95	90
Male	907	817	790	722	736
Mathematical statistics	1,140	1,155	1,154	1,144	1,158
Female	366	395	397	403	411
Male	774	760	757	741	747
Mathematics	1,407	1,320	1,250	1,126	1,100
Female	421	395	381	347	347
Male	986	925	869	779	753
Operations research	3,137	3,067	3,010	3,041	3,075
Female	749	746	758	771	773
Male	2,388	2,321	2,252	2,270	2,301
Statistics	2,392	2,154	2,244	2,362	2,436
Female	934	828	890	948	1,006
Male	1,458	1,326	1,354	1,414	1,430
Other	15,788	16,054	16,407	19,163	26,314
Female	5,289	5,419	5,626	6,543	9,042
Male	10,499	10,635	10,781	12,620	17,272
Life sciences	28,600	28,847	29,525	30,699	32,405
Female	7,956	8,196	8,542	9,142	9,851
Male	20,644	20,651	20,983	21,557	22,554
Agricultural extension	9	7	5	4	2
Female	5	3	3	3	1
Male	4	4	2	1	1
Agronomy	271	271	275	274	260
Female	25	25	27	25	22
Male	246	246	248	249	238
Animal science	93	91	92	92	92
Female	16	13	15	17	17
Male	77	78	77	75	75
Botany	270	273	277	294	325
Female	132	137	135	149	167
Male	138	136	142	145	158
Ecology	788	774	796	879	979
Female	227	227	238	278	313
Male	561	547	558	601	666

TABLE H-28. Occupations of Federal scientists and engineers, by sex: 1998–2002

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Occupation and sex	1998	1999	2000	2001	2002
Entomology	587	552	547	556	565
Female	84	71	79	88	92
Male	503	481	468	468	473
Environmental protection	3,679	3,625	3,644	3,663	3,713
Female	1,479	1,472	1,472	1,515	1,532
Male	2,200	2,153	2,172	2,148	2,181
Fishery biology	1,881	1,932	2,005	2,128	2,220
Female	381	394	428	464	483
Male	1,500	1,538	1,577	1,664	1,737
General biological sciences	9,034	9,495	10,023	10,758	11,664
Female	2,870	3,098	3,281	3,600	3,996
Male	6,164	6,397	6,742	7,158	7,668
Genetics	330	322	334	346	367
Female	72	73	79	83	90
Male	258	249	255	263	277
Horticulture	106	105	100	101	96
Female	34	33	31	33	30
Male	72	72	69	68	66
Microbiology	1,941	2,000	2,064	2,117	2,230
Female	801	825	853	887	942
Male	1,140	1,175	1,211	1,230	1,288
Pharmacology	385	402	383	380	389
Female	112	118	122	123	127
Male	273	284	261	257	262
Physiology	413	410	396	385	359
Female	106	104	97	97	81
Male	307	306	299	288	278
Plant pathology	259	240	243	248	249
Female	53	48	50	57	60
Male	206	192	193	191	189
Plant physiology	258	230	222	222	216
Female	57	48	49	49	47
Male	201	182	173	173	169
Range conservation	925	909	904	901	942
Female	177	181	174	185	206
Male	748	728	730	716	736
Soil conservation	3,731	3,635	3,585	3,611	3,870
Female	605	613	636	666	773
Male	3,126	3,022	2,949	2,945	3,097
Soil science	1,312	1,273	1,270	1,300	1,311
Female	148	142	148	159	171
Male	1,164	1,131	1,122	1,141	1,140
Toxicology	301	309	320	330	341
Female	94	96	105	107	118
Male	207	213	215	223	223
Wildlife biology	1,936	1,897	1,945	2,012	2,124
Female	461	457	502	541	570
Male	1,475	1,440	1,443	1,471	1,554
Zoology	91	95	95	98	91
Female	17	18	18	16	13
Male	74	77	77	82	78
Physical sciences	23,927	23,639	23,442	23,561	23,851
Female	4,608	4,616	4,665	4,800	5,037
Male	19,319	19,023	18,777	18,761	18,814

TABLE H-28. Occupations of Federal scientists and engineers, by sex: 1998–2002

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Occupation and sex	1998	1999	2000	2001	2002
Astronomy and space science	465	457	448	449	438
Female	41	42	45	51	50
Male	424	415	403	398	388
Chemistry	5,871	5,685	5,571	5,606	5,683
Female	1,659	1,614	1,609	1,636	1,712
Male	4,212	4,071	3,962	3,970	3,971
Geodesy	70	65	66	66	66
Female	14	15	13	14	13
Male	56	50	53	52	53
Geology	1,674	1,666	1,655	1,689	1,700
Female	306	303	302	315	316
Male	1,368	1,363	1,353	1,374	1,384
Geophysics	404	405	411	410	412
Female	38	40	41	42	51
Male	366	365	370	368	361
Health physics	659	648	650	644	644
Female	128	132	132	132	136
Male	531	516	518	512	508
Hydrology	2,382	2,361	2,370	2,384	2,426
Female	402	410	431	453	477
Male	1,980	1,951	1,939	1,931	1,949
Meteorology	2,741	2,791	2,782	2,723	2,727
Female	231	232	238	239	245
Male	2,510	2,559	2,544	2,484	2,482
Oceanography	646	642	621	610	628
Female	119	116	119	130	147
Male	527	526	502	480	481
Physics	2,788	2,659	2,598	2,565	2,580
Female	201	203	196	203	212
Male	2,587	2,456	2,402	2,362	2,368
Other	6,227	6,260	6,270	6,415	6,547
Female	1,469	1,509	1,539	1,585	1,678
Male	4,758	4,751	4,731	4,830	4,869
Social sciences	22,883	22,852	23,484	24,506	25,345
Female	7,965	8,168	8,627	9,215	9,669
Male	14,918	14,684	14,857	15,291	15,676
Agricultural market reporting	131	123	120	120	117
Female	22	21	20	21	22
Male	109	102	100	99	95
Agricultural markets	383	360	354	337	367
Female	117	119	122	112	119
Male	266	241	232	225	248
Anthropology	86	79	77	80	85
Female	37	34	35	32	37
Male	49	45	42	48	48
Archeology	814	794	832	904	911
Female	287	281	302	331	332
Male	527	513	530	573	579
Civil rights	41	39	43	44	40
Female	20	19	26	28	25
Male	21	20	17	16	15
Economics	5,004	4,482	4,426	4,508	4,496
Female	1,326	1,186	1,203	1,266	1,296
Male	3,678	3,296	3,223	3,242	3,200

TABLE H-28. Occupations of Federal scientists and engineers, by sex: 1998–2002

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Occupation and sex	1998	1999	2000	2001	2002
Education research	52	57	59	57	62
Female	26	32	33	30	34
Male	26	25	26	27	28
Foreign affairs	3,190	3,563	3,542	3,873	4,192
Female	1,011	1,137	1,188	1,299	1,437
Male	2,179	2,426	2,354	2,574	2,755
Foreign agricultural affairs	178	168	162	156	153
Female	35	37	38	39	38
Male	143	131	124	117	115
Geography	357	320	347	407	467
Female	110	97	107	138	153
Male	247	223	240	269	314
Intelligence	3,140	3,244	3,359	3,441	3,656
Female	956	1,007	1,021	1,054	1,166
Male	2,184	2,237	2,338	2,387	2,490
International cooperation	20	14	13	13	19
Female	9	8	7	6	10
Male	11	6	6	7	9
International relations	132	139	154	174	192
Female	38	43	42	61	67
Male	38	43	42	61	67
Manpower research and analysis	27	26	24	35	33
Female	14	14	10	19	20
Male	13	12	14	16	13
Psychology	3,370	3,538	3,610	3,683	3,725
Female	1,151	1,321	1,384	1,488	1,514
Male	2,219	2,217	2,226	2,195	2,211
Sociology	39	36	37	36	32
Female	17	15	16	17	15
Male	22	21	21	19	17
Trade	628	599	618	657	657
Female	244	239	246	265	264
Male	384	360	372	392	393
Transportation industry	69	74	74	86	91
Female	18	21	21	27	26
Male	51	53	53	59	65
Unemployment insurance	93	90	82	78	78
Female	33	32	27	29	31
Male	60	58	55	49	47
Other	5,129	5,107	5,551	5,817	5,972
Female	2,494	2,505	2,779	2,953	3,063
Male	2,635	2,602	2,772	2,864	2,909
All engineers	86,230	83,590	82,606	83,157	85,358
Female	8,865	8,685	8,772	9,088	9,719
Male	77,365	74,905	73,834	74,066	75,636
Aerospace	7,578	7,451	7,519	7,734	8,025
Female	794	782	824	917	991
Male	6,784	6,669	6,695	6,817	7,034
Chemical	1,019	1,015	983	980	1,012
Female	198	201	192	201	216
Male	821	814	791	779	796
Civil	11,058	10,650	10,418	10,512	10,668
Female	1,097	1,088	1,072	1,132	1,229
Male	9,961	9,562	9,346	9,380	9,439



TABLE H-28. Occupations of Federal scientists and engineers, by sex: 1998–2002

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Occupation and sex	1998	1999	2000	2001	2002
Electrical, electronics, and computer	27,449	26,430	25,771	25,953	26,703
Female	2,531	2,421	2,372	2,463	2,635
Male	24,918	24,009	23,399	23,487	24,065
Computer	2,319	2,268	2,330	3,144	3,389
Female	434	425	437	571	601
Male	1,885	1,843	1,893	2,573	2,788
Electrical	3,527	3,431	3,322	3,308	3,476
Female	321	297	284	277	316
Male	3,206	3,134	3,038	3,030	3,159
Electronics	21,603	20,731	20,119	19,501	19,838
Female	1,776	1,699	1,651	1,615	1,718
Male	19,827	19,032	18,468	17,884	18,118
Industrial and related	1,981	1,818	1,695	1,644	1,706
Female	272	258	245	239	259
Male	1,709	1,560	1,450	1,405	1,447
Fire prevention	144	134	139	140	162
Female	16	14	18	16	18
Male	128	120	121	124	144
Safety	506	491	470	474	467
Female	53	55	53	57	56
Male	453	436	417	417	411
Other industrial	1,331	1,193	1,086	1,030	1,077
Female	203	189	174	166	185
Male	1,128	1,004	912	864	892
Mechanical	9,151	8,931	8,696	8,826	9,314
Female	590	577	561	614	661
Male	8,561	8,354	8,135	8,212	8,653
Other	27,994	27,295	27,524	27,508	27,930
Female	3,383	3,358	3,506	3,522	3,728
Male	24,611	23,937	24,018	23,986	24,202
Agricultural	333	335	333	334	352
Female	30	35	36	38	52
Male	303	300	297	296	300
Biomedical	277	257	260	274	278
Female	70	71	66	68	68
Male	207	186	194	206	210
Ceramic	50	47	45	44	44
Female	9	8	7	8	9
Male	41	39	38	36	35
Environmental	5,051	4,819	4,718	4,592	4,545
Female	1,099	1,040	1,038	1,015	1,029
Male	3,952	3,779	3,680	3,577	3,516
Materials and metallurgical	1,070	1,045	1,057	1,057	1,086
Female	161	168	171	160	175
Male	909	877	886	897	911
Metallurgy	122	112	101	95	93
Female	8	4	4	5	5
Male	114	108	97	90	88
Mining	236	227	231	223	222
Female	11	11	11	10	10
Male	225	216	220	213	212
Naval architecture	761	744	737	739	767
Female	50	58	62	64	67
Male	711	686	675	675	700

TABLE H-28. Occupations of Federal scientists and engineers, by sex: 1998–2002

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Occupation and sex	1998	1999	2000	2001	2002
Nuclear	2,112	2,057	2,076	2,141	2,286
Female	118	123	135	157	203
Male	1,994	1,934	1,941	1,984	2,083
Petroleum	319	317	317	310	306
Female	33	32	31	33	36
Male	286	285	286	277	270
Welding	42	38	40	40	43
Female	1	1	2	2	3
Male	41	37	38	38	40
General	17,621	17,297	17,609	17,659	17,908
Female	1,793	1,807	1,943	1,962	2,071
Male	15,828	15,490	15,666	15,697	15,837

NOTE: Total includes those of unknown sex not shown separately.

SOURCE: Office of Personnel Management, tabulations from Central Personnel Data Files, 1998–2002.

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All occupations	189,713	186,891	187,396	193,448	206,182
White	156,945	153,899	153,597	157,642	166,533
Asian	14,028	14,110	14,353	15,171	16,763
Black	10,283	10,256	10,776	11,440	12,753
Hispanic	6,757	6,784	6,860	7,232	7,955
American Indian	1,583	1,642	1,675	1,791	1,916
All other	46	54	63	66	59
No report	71	146	72	106	203
Scientists	103,483	103,301	104,790	110,291	120,824
White	87,440	86,780	87,347	91,259	98,761
Asian	5,261	5,490	5,805	6,429	7,594
Black	6,720	6,778	7,310	7,893	9,051
Hispanic	3,028	3,101	3,172	3,449	3,986
American Indian	952	1,029	1,058	1,149	1,258
All other	39	40	49	53	48
No report	43	83	49	59	126
Computer and mathematical sciences	28,073	27,963	28,339	31,525	39,223
White	22,419	22,125	22,224	24,513	30,011
Asian	1,931	2,011	2,133	2,438	3,215
Black	2,756	2,821	2,994	3,393	4,361
Hispanic	782	776	775	911	1,253
American Indian	167	191	191	240	320
All other	2	1	3	7	8
No report	16	38	19	23	55
Computer sciences	3,182	3,287	3,369	3,861	4,306
White	2,540	2,593	2,629	2,950	3,283
Asian	339	374	413	516	594
Black	223	229	244	292	314
Hispanic	71	75	74	88	100
American Indian	7	9	9	11	12
All other	0	0	0	0	0
No report	2	7	0	4	3
Cryptanalysis	9	12	12	11	8
White	8	11	10	10	7
Asian	1	0	0	0	0
Black	0	1	2	1	1
Hispanic	0	0	0	0	0
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Equipment specialties	1,018	914	893	817	826
White	770	691	670	627	648
Asian	19	25	26	20	22
Black	126	105	117	100	83
Hispanic	91	80	67	55	56
American Indian	12	13	13	14	14
All other	0	0	0	0	0
No report	0	0	0	1	3
Mathematical statistics	1,140	1,155	1,154	1,144	1,158
White	901	912	892	869	874
Asian	141	147	158	168	171
Black	72	69	76	77	81
Hispanic	23	22	21	24	23
American Indian	1	2	2	2	2

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	1	1	0
No report	2	3	4	3	7
Mathematics	1,407	1,320	1,250	1,126	1,100
White	1,178	1,103	1,043	941	912
Asian	72	70	64	58	67
Black	102	98	94	80	80
Hispanic	47	42	42	42	37
American Indian	8	6	7	5	4
All other	0	0	0	0	0
No report	0	1	0	0	0
Operations research	3,137	3,067	3,010	3,041	3,075
White	2,756	2,680	2,637	2,657	2,665
Asian	121	119	125	119	133
Black	169	167	163	174	174
Hispanic	73	75	68	72	78
American Indian	16	19	15	17	22
All other	0	0	0	0	0
No report	2	7	2	2	3
Statistics	2,392	2,154	2,244	2,362	2,436
White	1,929	1,754	1,789	1,846	1,883
Asian	113	99	111	127	131
Black	279	240	271	303	327
Hispanic	62	52	63	75	84
American Indian	8	8	9	10	9
All other	0	0	1	1	1
No report	1	1	0	0	1
Other computer sciences	15,788	16,054	16,407	19,163	26,314
White	12,337	12,381	12,554	14,613	19,739
Asian	1,125	1,177	1,236	1,430	2,097
Black	1,785	1,912	2,027	2,366	3,301
Hispanic	415	430	440	555	875
American Indian	115	134	136	181	257
All other	2	1	1	5	7
No report	9	19	13	13	38
Life sciences	28,600	28,847	29,525	30,699	32,405
White	24,868	24,961	25,413	26,252	27,526
Asian	1,277	1,354	1,488	1,667	1,917
Black	1,201	1,209	1,261	1,297	1,366
Hispanic	828	855	884	975	1,051
American Indian	401	437	450	478	511
All other	15	16	18	17	15
No report	10	15	11	13	19
Agricultural extension	9	7	5	4	2
White	6	6	4	3	2
Asian	0	0	0	0	0
Black	2	1	1	1	0
Hispanic	0	0	0	0	0
American Indian	1	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Agronomy	271	271	275	274	260
White	245	245	249	246	227
Asian	5	6	6	6	6
Black	7	6	6	8	9
Hispanic	9	9	9	9	13
American Indian	5	5	5	5	5

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Animal science	93	91	92	92	92
White	86	83	84	83	82
Asian	3	4	4	4	5
Black	2	2	2	2	2
Hispanic	1	1	1	2	2
American Indian	1	1	1	1	1
All other	0	0	0	0	0
No report	0	0	0	0	0
Botany	270	273	277	294	325
White	251	248	250	264	290
Asian	5	8	9	8	8
Black	3	4	3	4	5
Hispanic	7	8	9	14	17
American Indian	2	3	4	3	4
All other	2	2	2	1	1
No report	0	0	0	0	0
Ecology	788	774	796	879	979
White	746	734	752	828	922
Asian	10	11	14	15	21
Black	8	7	9	9	12
Hispanic	17	14	15	18	17
American Indian	6	8	5	7	6
All other	1	0	1	2	1
No report	0	0	0	0	0
Entomology	587	552	547	556	565
White	530	505	492	492	496
Asian	22	18	21	29	34
Black	7	6	6	5	6
Hispanic	25	19	23	26	26
American Indian	2	3	3	3	2
All other	0	0	1	1	1
No report	1	1	1	0	0
Environmental protection	3,679	3,625	3,644	3,663	3,713
White	3,055	2,972	2,981	2,978	3,037
Asian	178	175	178	177	184
Black	272	284	289	299	296
Hispanic	124	141	144	149	139
American Indian	49	50	51	56	54
All other	0	2	1	3	2
No report	1	1	0	1	1
Fishery biology	1,881	1,932	2,005	2,128	2,220
White	1,723	1,762	1,835	1,951	2,031
Asian	48	47	47	56	60
Black	36	36	36	34	34
Hispanic	45	50	50	50	55
American Indian	29	37	37	37	40
All other	0	0	0	0	0
No report	0	0	0	0	0
General biological sciences	9,034	9,495	10,023	10,758	11,664
White	7,827	8,185	8,575	9,126	9,759
Asian	458	523	614	737	899
Black	383	387	421	421	470
Hispanic	237	246	264	314	355
American Indian	122	145	142	151	171

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	5	5	5	3	3
No report	2	4	2	6	7
Genetics	330	322	334	346	367
White	286	285	287	292	301
Asian	31	25	30	36	44
Black	3	3	4	5	5
Hispanic	7	7	8	10	13
American Indian	1	1	2	2	3
All other	2	1	2	1	1
No report	0	0	1	0	0
Horticulture	106	105	100	101	96
White	97	95	90	93	87
Asian	6	6	6	6	8
Black	2	2	2	0	0
Hispanic	1	2	2	2	1
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Microbiology	1,941	2,000	2,064	2,117	2,230
White	1,548	1,566	1,588	1,608	1,651
Asian	229	261	287	314	342
Black	91	94	100	102	124
Hispanic	64	68	78	82	95
American Indian	7	7	7	8	10
All other	0	0	0	0	0
No report	2	4	4	3	8
Pharmacology	385	402	383	380	389
White	269	281	262	255	253
Asian	89	97	96	100	111
Black	16	15	14	14	14
Hispanic	6	4	6	6	7
American Indian	1	1	2	3	2
All other	0	0	0	0	0
No report	4	4	3	2	2
Physiology	413	410	396	385	359
White	369	368	356	346	320
Asian	34	30	30	28	29
Black	3	2	2	2	2
Hispanic	7	10	8	9	8
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Plant pathology	259	240	243	248	249
White	233	219	218	218	216
Asian	15	11	12	15	16
Black	6	6	7	8	8
Hispanic	2	1	3	4	5
American Indian	3	3	3	3	4
All other	0	0	0	0	0
No report	0	0	0	0	0
Plant physiology	258	230	222	222	216
White	228	211	202	202	195
Asian	23	16	17	17	18
Black	3	2	2	2	2
Hispanic	4	1	1	1	1
American Indian	0	0	0	0	0

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Range conservation	925	909	904	901	942
White	844	831	821	814	854
Asian	2	3	2	3	3
Black	0	0	0	0	1
Hispanic	51	46	46	48	48
American Indian	28	29	35	36	36
All other	0	0	0	0	0
No report	0	0	0	0	0
Soil conservation	3,731	3,635	3,585	3,611	3,870
White	3,231	3,143	3,094	3,096	3,332
Asian	30	28	28	27	29
Black	252	245	248	260	259
Hispanic	120	121	117	125	140
American Indian	97	97	97	102	109
All other	1	1	1	1	1
No report	0	0	0	0	0
Soil science	1,312	1,273	1,270	1,300	1,311
White	1,167	1,130	1,129	1,150	1,165
Asian	20	16	16	15	17
Black	80	81	77	82	79
Hispanic	28	27	28	33	31
American Indian	17	19	20	20	19
All other	0	0	0	0	0
No report	0	0	0	0	0
Toxicology	301	309	320	330	341
White	239	243	250	253	255
Asian	45	46	46	47	55
Black	13	13	19	23	22
Hispanic	4	6	4	5	8
American Indian	0	0	1	1	0
All other	0	0	0	0	0
No report	0	1	0	1	1
Wildlife biology	1,936	1,897	1,945	2,012	2,124
White	1,801	1,758	1,803	1,862	1,967
Asian	22	21	23	24	25
Black	12	13	13	16	16
Hispanic	67	72	66	65	66
American Indian	30	28	35	40	45
All other	4	5	5	5	5
No report	0	0	0	0	0
Zoology	91	95	95	98	91
White	87	91	91	92	84
Asian	2	2	2	3	3
Black	0	0	0	0	0
Hispanic	2	2	2	3	4
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Physical sciences	23,927	23,639	23,442	23,561	23,851
White	20,897	20,569	20,346	20,352	20,501
Asian	1,465	1,490	1,494	1,567	1,632
Black	860	843	846	858	885
Hispanic	570	578	591	613	654
American Indian	117	133	141	146	146

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	14	13	15	15	12
No report	4	13	9	10	21
Astronomy and space sciences	465	457	448	449	438
White	441	433	423	421	408
Asian	11	11	12	13	13
Black	6	7	7	8	8
Hispanic	7	6	6	7	8
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	1
Chemistry	5,871	5,685	5,571	5,606	5,683
White	4,543	4,359	4,254	4,253	4,266
Asian	783	788	773	800	827
Black	342	330	329	331	345
Hispanic	179	181	187	192	206
American Indian	21	23	22	22	22
All other	0	0	1	1	2
No report	3	4	5	7	15
Geodesy	70	65	66	66	66
White	59	54	56	56	56
Asian	4	4	4	4	4
Black	6	6	5	5	5
Hispanic	1	1	1	1	1
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Geology	1,674	1,666	1,655	1,689	1,700
White	1,582	1,570	1,555	1,582	1,596
Asian	27	29	30	34	34
Black	20	20	21	21	20
Hispanic	29	29	29	32	30
American Indian	16	18	20	20	20
All other	0	0	0	0	0
No report	0	0	0	0	0
Geophysics	404	405	411	410	412
White	369	372	381	380	381
Asian	21	20	19	19	21
Black	4	3	4	4	4
Hispanic	6	6	4	4	4
American Indian	3	3	3	3	2
All other	1	1	0	0	0
No report	0	0	0	0	0
Health physics	659	648	650	644	644
White	554	538	538	531	528
Asian	45	50	48	44	45
Black	41	38	41	45	46
Hispanic	14	16	17	18	19
American Indian	5	5	6	6	6
All other	0	0	0	0	0
No report	0	1	0	0	0
Hydrology	2,382	2,361	2,370	2,384	2,426
White	2,230	2,208	2,215	2,224	2,266
Asian	52	50	46	52	51
Black	27	26	25	28	30
Hispanic	52	55	56	54	55
American Indian	17	19	22	21	21



TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	4	3	5	5	3
No report	0	0	1	0	0
Meteorology	2,741	2,791	2,782	2,723	2,727
White	2,559	2,605	2,589	2,525	2,523
Asian	61	61	69	74	77
Black	57	59	59	57	60
Hispanic	52	53	52	52	53
American Indian	5	6	6	7	7
All other	7	7	7	8	7
No report	0	0	0	0	0
Oceanography	646	642	621	610	628
White	594	583	562	551	567
Asian	24	29	32	32	33
Black	15	14	14	13	13
Hispanic	13	15	13	14	15
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	1	0	0	0
Physics	2,788	2,659	2,598	2,565	2,580
White	2,528	2,409	2,341	2,286	2,296
Asian	164	158	161	175	179
Black	49	45	50	54	51
Hispanic	42	39	42	45	48
American Indian	5	6	4	3	2
All other	0	0	0	0	0
No report	0	2	0	2	4
Other	6,227	6,260	6,270	6,415	6,547
White	5,438	5,438	5,432	5,543	5,614
Asian	273	290	300	320	348
Black	293	295	291	292	303
Hispanic	175	177	184	194	215
American Indian	45	53	58	64	66
All other	2	2	2	1	0
No report	1	5	3	1	1
Social sciences	22,883	22,852	23,484	24,506	25,345
White	19,256	19,125	19,364	20,142	20,723
Asian	588	635	690	757	830
Black	1,903	1,905	2,209	2,345	2,439
Hispanic	848	892	922	950	1,028
American Indian	267	268	276	285	281
All other	8	10	13	14	13
No report	13	17	10	13	31
Agricultural market reporting	131	123	120	120	117
White	110	103	102	103	99
Asian	1	1	1	1	1
Black	14	13	12	10	10
Hispanic	4	4	3	4	5
American Indian	2	2	2	2	2
All other	0	0	0	0	0
No report	0	0	0	0	0
Agricultural markets	383	360	354	337	367
White	336	312	302	288	305
Asian	4	4	3	4	5
Black	27	26	31	31	39
Hispanic	15	15	15	14	18
American Indian	1	3	3	0	0

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Anthropology	86	79	77	80	85
White	79	71	67	73	76
Asian	0	0	1	1	1
Black	1	1	1	1	1
Hispanic	3	3	3	2	2
American Indian	3	4	5	3	5
All other	0	0	0	0	0
No report	0	0	0	0	0
Archeology	814	794	832	904	911
White	751	740	772	840	845
Asian	9	7	9	10	10
Black	3	3	3	4	6
Hispanic	22	18	22	20	23
American Indian	27	25	25	28	26
All other	2	1	1	1	1
No report	0	0	0	1	0
Civil rights	41	39	43	44	40
White	13	11	12	13	10
Asian	2	2	3	2	3
Black	18	17	22	24	22
Hispanic	8	9	6	5	5
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Economics	5,004	4,482	4,426	4,508	4,496
White	4,348	3,842	3,773	3,825	3,807
Asian	205	213	228	243	243
Black	311	295	300	313	313
Hispanic	117	113	110	114	111
American Indian	20	18	14	12	11
All other	0	0	0	0	0
No report	3	1	1	1	11
Education research	52	57	59	57	62
White	40	44	45	43	50
Asian	3	3	3	3	4
Black	5	6	7	8	6
Hispanic	4	3	3	2	2
American Indian	0	1	1	1	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Foreign affairs	3,190	3,563	3,542	3,873	4,192
White	2,804	3,096	3,082	3,375	3,635
Asian	95	123	117	136	160
Black	160	179	191	201	219
Hispanic	117	150	137	142	166
American Indian	12	13	14	15	11
All other	0	0	0	0	0
No report	2	2	1	4	1
Foreign agricultural affairs	178	168	162	156	153
White	156	147	139	134	133
Asian	8	6	7	6	6
Black	13	14	14	13	12
Hispanic	0	1	2	2	1
American Indian	1	0	0	1	1

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Geography	357	320	347	407	467
White	337	309	331	387	441
Asian	6	4	5	6	7
Black	8	4	4	8	10
Hispanic	2	1	3	2	5
American Indian	3	2	4	4	4
All other	1	0	0	0	0
No report	0	0	0	0	0
Intelligence	3,140	3,244	3,359	3,441	3,656
White	2,705	2,786	2,875	2,928	3,063
Asian	75	77	67	77	96
Black	178	193	206	213	238
Hispanic	160	160	185	193	219
American Indian	17	16	17	22	22
All other	2	6	7	7	7
No report	3	6	2	1	11
International cooperation	20	14	13	13	19
White	18	13	12	11	15
Asian	0	0	0	0	1
Black	2	1	1	2	3
Hispanic	0	0	0	0	0
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
International relations	132	139	154	174	192
White	122	125	136	154	169
Asian	2	2	5	7	8
Black	5	5	7	7	6
Hispanic	3	5	6	6	8
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	2	0	0	1
Manpower research and analysis	27	26	24	35	33
White	24	23	24	27	24
Asian	0	0	0	3	3
Black	2	2	0	3	4
Hispanic	1	1	0	2	2
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Psychology	3,370	3,538	3,610	3,683	3,725
White	3,033	3,149	3,177	3,255	3,282
Asian	46	67	85	78	92
Black	155	176	187	186	180
Hispanic	100	110	122	122	125
American Indian	34	34	37	40	43
All other	0	0	1	1	1
No report	2	2	1	1	2
Sociology	39	36	37	36	32
White	32	29	28	27	25
Asian	2	2	2	2	2
Black	4	4	5	5	3
Hispanic	0	0	0	0	0
American Indian	1	1	2	2	2

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Trade	628	599	618	657	657
White	526	502	515	539	536
Asian	31	29	33	39	40
Black	32	33	38	43	50
Hispanic	37	33	31	35	31
American Indian	2	2	1	1	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Transportation industry	69	74	74	86	91
White	64	67	68	73	80
Asian	0	0	0	1	3
Black	4	5	5	10	6
Hispanic	1	2	1	2	2
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Unemployment insurance	93	90	82	78	78
White	65	65	58	55	55
Asian	0	0	1	0	1
Black	18	16	14	14	14
Hispanic	8	8	8	8	7
American Indian	2	1	1	1	1
All other	0	0	0	0	0
No report	0	0	0	0	0
Other	5,129	5,107	5,551	5,817	5,972
White	3,693	3,691	3,846	3,992	4,073
Asian	99	95	120	138	144
Hispanic	246	256	265	275	296
Black	943	912	1,161	1,249	1,297
American Indian	142	146	150	153	153
All other	3	3	4	5	4
No report	3	4	5	5	5
Engineers	86,230	83,590	82,606	83,157	85,358
White	69,505	67,119	66,250	66,383	67,772
Asian	8,767	8,620	8,548	8,742	9,169
Black	3,563	3,478	3,466	3,547	3,702
Hispanic	3,729	3,683	3,688	3,783	3,969
American Indian	631	613	617	642	658
All other	7	14	14	13	11
No report	28	63	23	47	77
Aerospace	7,578	7,451	7,519	7,734	8,025
White	6,462	6,317	6,358	6,509	6,730
Asian	496	506	520	554	588
Black	268	270	278	298	323
Hispanic	306	319	320	324	341
American Indian	46	39	43	47	42
All other	0	0	0	0	0
No report	0	0	0	2	1
Chemical	1,019	1,015	983	980	1,012
White	785	797	760	763	793
Asian	138	130	132	128	129
Black	39	38	39	35	38
Hispanic	52	48	50	50	48
American Indian	4	2	2	2	2

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	1	0	0	2	2
Civil	11,058	10,650	10,418	10,512	10,668
White	9,045	8,716	8,530	8,577	8,677
Asian	989	941	925	945	973
Black	338	338	326	353	356
Hispanic	528	502	492	491	512
American Indian	147	134	139	141	143
All other	3	3	2	2	1
No report	8	16	4	3	6
Electrical, electronics, and computer	27,449	26,430	25,771	25,953	26,703
White	21,045	20,146	19,652	19,635	20,012
Asian	3,623	3,552	3,469	3,572	3,794
Black	1,309	1,258	1,217	1,265	1,328
Hispanic	1,310	1,297	1,270	1,308	1,378
American Indian	153	154	154	161	167
All other	1	3	2	2	2
No report	8	20	7	10	22
Computer engineering	2,319	2,268	2,330	3,144	3,389
White	1,763	1,720	1,762	2,283	2,444
Asian	282	282	292	458	506
Black	148	139	144	197	216
Hispanic	112	115	118	190	204
American Indian	14	11	13	14	19
All other	0	0	0	0	0
No report	0	1	1	2	0
Electrical engineering	3,527	3,431	3,322	3,308	3,476
White	2,595	2,512	2,432	2,422	2,540
Asian	550	553	533	526	556
Black	201	183	174	179	190
Hispanic	158	155	161	160	165
American Indian	21	21	20	18	17
All other	0	0	0	0	0
No report	2	7	2	3	8
Electronics engineering	21,603	20,731	20,119	19,501	19,838
White	16,687	15,914	15,458	14,930	15,028
Asian	2,791	2,717	2,644	2,588	2,732
Black	960	936	899	889	922
Hispanic	1,040	1,027	991	958	1,009
American Indian	118	122	121	129	131
All other	1	3	2	2	2
No report	6	12	4	5	14
Industrial and related engineering	1,981	1,818	1,695	1,644	1,706
White	1,580	1,424	1,336	1,306	1,347
Asian	165	164	151	141	145
Black	131	128	123	116	120
Hispanic	89	83	72	67	74
American Indian	16	15	12	13	14
All other	0	0	0	0	0
No report	0	4	1	1	6
Fire prevention engineering	144	134	139	140	162
White	116	104	112	117	134
Asian	16	18	18	17	19
Black	10	10	8	5	7
Hispanic	1	1	0	0	1
American Indian	1	1	1	1	1

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Safety engineering	506	491	470	474	467
White	399	382	368	366	356
Asian	45	46	44	44	38
Black	29	30	27	29	30
Hispanic	30	29	28	32	35
American Indian	3	3	3	3	3
All other	0	0	0	0	0
No report	0	1	0	0	5
Other industrial engineering	1,331	1,193	1,086	1,030	1,077
White	1,065	938	856	823	857
Asian	104	100	89	80	88
Black	92	88	88	82	83
Hispanic	58	53	44	35	38
American Indian	12	11	8	9	10
All other	0	0	0	0	0
No report	0	3	1	1	1
Other	27,994	27,295	27,524	27,508	27,930
White	23,087	22,419	22,535	22,403	22,606
Asian	2,356	2,350	2,383	2,442	2,547
Black	1,186	1,160	1,190	1,180	1,226
Hispanic	1,131	1,121	1,172	1,219	1,265
American Indian	225	225	227	235	245
All other	1	6	8	7	6
No report	8	14	9	22	35
Agricultural engineering	333	335	333	334	352
White	306	308	305	296	313
Asian	13	13	12	15	15
Black	6	6	7	10	10
Hispanic	4	4	6	9	9
American Indian	4	4	3	4	5
All other	0	0	0	0	0
No report	0	0	0	0	0
Biomedical engineering	277	257	260	274	278
White	233	216	223	231	233
Asian	26	23	21	23	25
Black	8	8	8	11	10
Hispanic	8	8	7	8	9
American Indian	2	2	1	1	1
All other	0	0	0	0	0
No report	0	0	0	0	0
Ceramic engineering	50	47	45	44	44
White	41	38	36	35	35
Asian	5	5	5	5	5
Black	3	3	3	3	3
Hispanic	1	1	1	1	1
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Environmental engineering	5,051	4,819	4,718	4,592	4,545
White	3,924	3,727	3,651	3,543	3,509
Asian	560	546	531	523	516
Black	261	244	245	239	235
Hispanic	271	264	255	246	243
American Indian	33	34	35	40	40

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	2	4	1	1	2
Materials and metallurgical engineering	1,070	1,045	1,057	1,057	1,086
White	893	859	872	875	898
Asian	98	102	101	100	102
Black	38	41	42	39	41
Hispanic	38	38	37	37	40
American Indian	3	4	5	6	4
All other	0	0	0	0	0
No report	0	1	0	0	1
Mechanical engineering	9,151	8,931	8,696	8,826	9,314
White	7,501	7,300	7,079	7,190	7,607
Asian	1,000	977	968	960	993
Black	292	286	293	300	311
Hispanic	313	313	312	324	351
American Indian	40	44	40	43	45
All other	2	2	2	2	2
No report	3	9	2	7	5
Metallurgy	122	112	101	95	93
White	105	96	84	81	79
Asian	15	15	16	13	13
Black	1	0	0	0	0
Hispanic	1	1	1	1	1
American Indian	0	0	0	0	0
All other	0	0	0	0	0
No report	0	0	0	0	0
Mining engineering	236	227	231	223	222
White	213	204	208	202	204
Asian	15	15	15	15	14
Black	2	2	2	0	0
Hispanic	4	4	4	4	3
American Indian	2	2	2	2	1
All other	0	0	0	0	0
No report	0	0	0	0	0
Naval architecture	761	744	737	739	767
White	652	631	635	636	655
Asian	78	78	73	74	76
Black	16	17	14	12	15
Hispanic	12	14	12	13	14
American Indian	3	3	3	3	3
All other	0	0	0	0	0
No report	0	1	0	1	4
Nuclear engineering	2,112	2,057	2,076	2,141	2,286
White	1,804	1,757	1,764	1,810	1,910
Asian	217	212	223	232	258
Black	40	44	44	41	48
Hispanic	32	27	27	28	37
American Indian	17	17	18	23	28
All other	0	0	0	0	0
No report	2	0	0	7	5
Petroleum engineering	319	317	317	310	306
White	278	277	276	268	268
Asian	17	17	17	17	17
Black	5	5	5	4	4
Hispanic	15	14	15	15	11
American Indian	4	4	4	6	6

TABLE H-29. Occupations of Federal scientists and engineers, by race/ethnicity 1998–2002

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Occupation and race/ethnicity	1998	1999	2000	2001	2002
All other	0	0	0	0	0
No report	0	0	0	0	0
Welding engineering	42	38	40	40	43
White	35	31	32	31	33
Asian	7	7	7	7	8
Black	0	0	0	0	0
Hispanic	0	0	0	1	1
American Indian	0	0	0	1	1
All other	0	0	0	0	0
No report	0	0	1	0	0
General engineering	17,621	17,297	17,609	17,659	17,908
White	14,603	14,275	14,449	14,395	14,469
Asian	1,305	1,317	1,362	1,418	1,498
Black	806	790	820	821	860
Hispanic	745	746	807	856	896
American Indian	157	155	156	149	156
All other	1	6	8	7	6
No report	4	8	7	13	23

SOURCE: Office of Personnel Management, tabulations from Central Personnel Data Files, 1998–2002.



TABLE H-30. Primary or secondary work activity of S&amp;E doctorate holders employed in the private-for-profit sector, by age, sex, race/ethnicity, and disability status: 2001

Age in years and work activity	Race/ethnicity									
	All groups	Sex		Race/ethnicity					Disability status	
		Female	Male	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	No disability	With disability
All ages	182,130	30,860	151,280	127,450	47,540	3,090	3,610	370	172,860	9,270
Computer applications	39,380	4,700	34,680	23,360	14,590	660	710	S	37,600	1,780
Management/administration	86,040	14,820	71,210	65,080	17,550	1,410	1,760	190	81,540	4,490
Research and development	125,350	19,030	106,320	84,190	36,410	2,080	2,420	230	119,300	6,050
Teaching	3,560	1,180	2,380	2,820	530	120	80	S	3,390	170
Other	30,140	8,370	21,770	24,730	3,840	580	840	130	28,190	1,950
Younger than 35	21,720	5,610	16,100	12,890	7,610	530	630	50	21,390	320
Computer applications	6,000	1,140	4,860	3,190	2,530	90	190	S	5,900	100
Management/administration	7,200	2,100	5,100	4,760	1,970	220	230	S	7,100	100
Research and development	17,150	4,240	12,910	9,960	6,280	400	470	S	16,890	260
Teaching	390	180	210	240	120	S	S	S	390	S
Other	2,680	1,110	1,570	1,980	490	90	120	S	2,650	S
35-44	65,910	13,250	52,670	39,070	24,070	1,190	1,460	90	64,520	1,390
Computer applications	16,050	1,990	14,060	7,780	7,750	260	210	S	15,730	330
Management/administration	29,380	5,930	23,440	19,270	8,720	520	820	S	28,820	550
Research and development	48,880	9,210	39,670	28,330	18,710	750	1,000	60	47,830	1,060
Teaching	890	260	620	610	180	70	S	S	890	S
Other	8,070	2,680	5,390	5,620	1,900	230	320	S	7,900	170
45-54	54,700	8,580	46,120	42,090	10,540	1,010	880	150	51,360	3,340
Computer applications	10,290	1,210	9,080	6,760	3,050	220	250	S	9,630	660
Management/administration	28,610	4,860	23,750	23,100	4,470	460	440	100	26,910	1,700
Research and development	35,610	4,270	31,340	26,460	7,830	660	580	90	33,390	2,210
Teaching	1,150	450	700	980	110	S	S	S	1,100	50
Other	10,420	3,040	7,380	9,000	880	240	200	80	9,740	680
55 and older	39,810	3,420	36,390	33,400	5,320	370	630	80	35,590	4,220
Computer applications	7,040	360	6,680	5,630	1,260	80	60	S	6,340	700
Management/administration	20,850	1,930	18,930	17,950	2,400	210	250	S	18,710	2,140
Research and development	23,710	1,310	22,400	19,430	3,590	280	370	S	21,190	2,520
Teaching	1,140	280	850	990	120	S	S	S	1,020	120
Other	8,970	1,530	7,440	8,130	570	S	210	S	7,900	1,070

S suppressed because fewer than 50 weighted cases

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding and because total includes "other race/ethnicity" not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-31. Demographic characteristics of employed S&E doctorate holders, by sex: 2001  
(Percent)

Demographic characteristic	Both sexes	Female	Male
All S&E doctorate holders (number)	574,890	147,110	427,770
Age in 2001 (years)			
29 and younger	0.8	1.1	0.7
30-39	22.7	28.7	20.6
40-49	31.3	34.5	30.2
50 and older	45.3	35.8	48.5
Race/ethnicity			
White	79.1	79.7	78.9
Asian/Pacific Islander	15.3	12.6	16.2
Black	2.6	3.9	2.2
Hispanic	2.6	3.4	2.4
American Indian/Alaskan Native	0.3	0.3	0.3
Other race/ethnicity	0.0	0.1	0.0
Marital status			
Married	79.1	67.2	83.2
Widowed	0.9	1.5	0.7
Separated	1.0	1.2	0.9
Divorced	7.4	11.8	5.8
Never married	11.6	18.2	9.3
If married, spouse's employment status			
Employed			
Full time	54.3	84.4	45.9
Part time	17.4	6.4	20.5
Unemployed	28.3	9.2	33.6
If spouse is employed, field in which spouse's job required technical expertise at bachelor's level or above <sup>a</sup>			
Engineering, computer sciences, or natural sciences	36.3	50.2	31.1
Social sciences	21.9	21.0	22.2
Other	35.9	30.7	37.9
Children living in household			
No	50.1	55.2	48.4
Yes	49.9	44.8	51.6
Citizenship			
U.S. citizen			
Native	76.7	80.9	75.2
Naturalized	13.4	10.5	14.4
Non-U.S. citizen			
Permanent resident	7.0	6.0	7.3
Temporary resident	2.9	2.5	3.1

<sup>a</sup> Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Figures rounded to nearest 10. Details may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-32. Demographic characteristics of employed S&E doctorate holders, by race/ethnicity and sex: 2001

(Percent distribution)

Demographic characteristic	All races/ethnicities			White			Asian/Pacific Islander			Black			Hispanic			American Indian/ Alaskan Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
S&E doctorate holders (number)	574,890	147,110	427,770	454,940	117,240	337,710	87,770	18,600	69,170	15,050	5,730	9,320	15,020	4,940	10,080	1,840	500	1,330
Age in 2001 (years)																		
29 and younger	0.8	1.1	0.7	0.8	1.0	0.7	1.0	1.9	0.8	1.0	1.3	0.9	0.8	0.9	0.7	0.4	0.7	0.3
30-39	22.7	28.7	20.6	19.3	25.0	17.3	39.3	50.9	36.2	22.0	27.0	18.9	28.1	34.7	24.8	19.6	21.4	18.9
40-49	31.3	34.5	30.2	30.4	34.6	28.9	34.8	32.5	35.4	33.5	34.9	32.7	37.2	39.1	36.3	23.3	31.8	20.1
50 and older	45.3	35.8	48.5	49.6	39.5	53.1	24.9	14.7	27.6	43.5	36.8	47.6	33.9	25.2	38.2	56.7	46.1	60.7
Marital status																		
Married	79.1	67.2	83.2	78.3	66.7	82.4	87.0	78.4	89.3	64.7	47.2	75.5	72.6	62.1	77.7	72.6	59.5	77.5
Widowed	0.9	1.5	0.7	1.0	1.7	0.7	0.5	0.6	0.5	1.1	1.9	0.6	0.3	0.1	0.5	0.7	2.6	0.0
Separated	1.0	1.2	0.9	1.0	1.1	1.0	0.6	0.7	0.6	3.5	4.9	2.7	1.8	2.3	1.5	0.7	1.3	0.4
Divorced	7.4	11.8	5.8	8.1	12.6	6.5	2.7	5.2	2.0	11.0	15.7	8.0	9.2	12.7	7.4	11.7	17.5	9.5
Never married	11.6	18.2	9.3	11.6	17.9	9.4	9.2	15.1	7.6	19.7	30.4	13.2	16.2	22.7	13.0	14.4	19.1	12.6
If married, spouse's employment status																		
Employed																		
Full time	54.3	84.4	45.9	52.6	83.7	43.9	59.2	89.0	52.1	69.0	84.3	63.1	59.8	84.2	50.2	54.9	66.0	51.7
Part time	17.4	6.4	20.5	19.2	7.1	22.6	10.7	2.4	12.6	9.5	3.7	11.8	13.7	6.0	16.7	23.5	21.6	24.1
Not employed	28.3	9.2	33.6	28.2	9.2	33.5	30.1	8.6	35.2	21.5	12.0	25.1	26.5	9.8	33.0	21.5	12.4	24.2
If spouse is employed, field in which spouse's job required technical expertise at bachelor's level or above <sup>a</sup>																		
Engineering, computer sciences, or natural sciences	36.3	50.2	31.1	31.2	45.5	25.7	62.8	78.7	57.6	27.3	35.1	23.7	35.2	48.3	28.3	26.1	44.4	20.0
Social sciences	21.9	21.0	22.2	22.9	22.6	22.9	14.6	11.2	15.8	29.9	26.0	31.6	30.5	22.8	34.6	24.6	17.4	27.0
Other	35.9	30.7	37.9	38.0	32.4	40.1	25.1	20.2	26.7	44.5	38.0	47.4	34.9	31.7	36.5	37.4	34.2	38.5
Children living in household																		
No	50.1	55.2	48.4	52.6	56.7	51.2	37.5	44.4	35.6	50.7	60.1	44.9	47.2	51.9	44.9	61.2	66.6	59.1
Yes	49.9	44.8	51.6	47.4	43.3	48.8	62.5	55.6	64.4	49.3	39.9	55.1	52.8	48.1	55.1	38.8	33.4	40.9
Citizenship																		
U.S. citizen																		
Native	76.7	80.9	75.2	90.8	92.3	90.3	8.4	13.2	7.1	65.0	85.0	52.8	56.5	59.6	55.0	97.5	100.0	96.5
Naturalized	13.4	10.5	14.4	5.4	4.2	5.8	52.1	47.2	53.4	21.3	9.7	28.4	23.8	24.1	23.6	2.4	0.0	3.3
Non-U.S. citizen																		
Permanent resident	7.0	6.0	7.3	2.7	2.5	2.7	27.9	28.1	27.9	9.3	3.6	12.9	13.2	9.5	15.1	0.0	0.0	0.0
Temporary resident	2.9	2.5	3.1	1.1	1.0	1.1	11.6	11.5	11.6	4.3	1.8	5.9	6.5	6.8	6.3	0.2	0.0	0.2

<sup>a</sup> Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Figures rounded to nearest 10. Total includes "other race/ethnicity" not shown separately. Details may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-33. Demographic characteristics of employed S&amp;E doctorate holders, by disability status and sex: 2001

(Percent)

Demographic characteristic	All doctorate holders			No disability			With disability		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed S&E doctorate holders (number)	574,890	147,110	427,770	539,260	139,280	399,980	35,630	7,840	27,800
Age in 2001 (years)									
29 and younger	0.8	1.1	0.7	0.8	1.1	0.7	0.3	0.2	0.3
30-39	22.7	28.7	20.6	23.7	29.7	21.7	6.4	10.7	5.1
40-49	31.3	34.5	30.2	31.8	34.5	30.8	24.0	33.2	21.4
50 and older	45.3	35.8	48.5	43.7	34.7	46.8	69.4	55.9	73.2
Race/ethnicity									
White	79.1	79.7	78.9	78.6	79.5	78.3	86.7	83.0	87.7
Asian/Pacific Islander	15.3	12.6	16.2	15.8	12.9	16.8	7.7	8.8	7.4
Black	2.6	3.9	2.2	2.6	3.9	2.2	2.2	3.7	1.7
Hispanic	2.6	3.4	2.4	2.6	3.3	2.3	2.8	3.7	2.5
American Indian/Alaskan Native	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.5	0.6
Other	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.4	0.0
Marital status									
Married	79.1	67.2	83.2	79.1	67.4	83.2	79.6	64.1	84.0
Widowed	0.9	1.5	0.7	0.9	1.5	0.7	1.5	2.6	1.1
Separated	1.0	1.2	0.9	1.0	1.3	0.9	1.2	1.0	1.2
Divorced	7.4	11.8	5.8	7.2	11.5	5.7	9.8	18.0	7.4
Never married	11.6	18.2	9.3	11.8	18.4	9.5	8.0	14.2	6.2
If married, spouse's employment status									
Employed									
Full time	54.3	84.4	45.9	54.4	84.6	45.9	52.4	81.1	46.2
Part time	17.4	6.4	20.5	17.2	6.4	20.3	20.1	6.0	23.1
Not employed	28.3	9.2	33.6	28.4	9.0	33.8	27.5	12.9	30.7
If spouse is employed, field in which spouse's job required technical expertise at bachelor's level or above <sup>a</sup>									
Engineering, computer sciences, or natural sciences	36.3	50.2	31.1	38.0	32.9	39.3	28.1	42.7	24.2
Social sciences	21.9	21.0	22.2	21.2	20.4	21.5	26.5	29.2	25.7
Other	35.9	30.7	37.9	34.2	28.0	36.6	38.0	32.9	39.3
Children living in household									
No	50.1	55.2	48.4	49.4	54.7	47.6	61.3	63.0	60.8
Yes	49.9	44.8	51.6	50.6	45.3	52.4	38.7	37.0	39.2
Citizenship									
U.S. citizen									
Native	76.7	80.9	75.2	76.1	80.7	74.5	86.1	85.4	86.3
Naturalized	13.4	10.5	14.4	13.6	10.7	14.7	10.0	7.5	10.7
Non-U.S. citizen									
Permanent resident	7.0	6.0	7.3	7.2	6.1	7.6	2.8	4.5	2.3
Temporary resident	2.9	2.5	3.1	3.0	2.5	3.2	1.1	2.6	0.6

<sup>a</sup> Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Figures rounded to nearest 10. Details may who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

TABLE H-34. Employed S&amp;E doctorate holders with disabilities, by age at onset of disability: 2001

Age at onset (years)	Number	Percent distribution
All ages	35,630	100.0
Since birth	2,000	5.6
Younger than 10	2,140	6.0
10–19	3,160	8.9
20–29	3,530	9.9
30–39	4,220	11.8
40–49	11,560	32.4
50 or older	9,010	25.3

NOTES: Data are limited to those who earned a doctorate in an S&E field from a U.S. institution. Numbers rounded to nearest 10. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2001.

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# Technical Notes

The data in this report come from many sources, including surveys conducted by the National Science Foundation (NSF), other Federal agencies, and non-Federal organizations. Many methods of data collection are represented. Therefore, users should take great care when comparing data from different sources. These data often will not be strictly comparable because of differences in definitions, survey procedures, and phrasing of questions, among other things.

Survey accuracy is determined by the joint effects of sampling and nonsampling errors.<sup>1</sup> Sampling errors arise when estimates based on a sample differ from figures that would have been obtained if a complete population had been surveyed. Nonsampling errors can arise from design, reporting, and processing errors as well as from errors due to faulty responses or nonresponses. Nonsampling errors include respondent-based events, such as some respondents interpreting questions differently from other respondents; respondents making estimates rather than giving actual data; and respondents being unable or unwilling to provide complete, correct information. Errors can also arise during the processing of responses, such as during recording and keying.

## Reporting categories

This report draws on data collected from many sources, many of which use differing terms to describe the various statistics presented here. Efforts have been made to maintain consistency throughout this text, but in some data reporting, it has been necessary to use distinct terminology that does not match that used in other compilations.

## Racial/ethnic information

The collection and reporting of race/ethnicity data pose several additional problems. First, both the naming of population subgroups and their definitions often have changed over time. Second, many of the groups of particular interest are quite small, so it is difficult to measure them accurately without surveys of the entire population of interest. In some instances, sample surveys may not have been of sufficient scope to permit the calculation of reliable

racial/ethnic population estimates; consequently, results are not shown for all groups. The U.S. Bureau of the Census's Current Population Survey, for example, cannot provide data on American Indians. Data on this population are available only from the decennial census. Third, data on race/ethnicity are often based on self-identification. These data are less reliable for certain racial/ethnic groups than for others. Data collected at two points in time indicate that self-identification of American Indians is much less reliable than self-identification of other racial/ethnic groups.<sup>2</sup> Fourth, it is easy to overlook or minimize heterogeneity within subgroups when only a single statistic is reported for a total racial/ethnic group.

## Information about people with disabilities

Data on people with disabilities who study or work in science and engineering (S&E) are seriously limited for several reasons. First, the operational definitions of *disability* vary, include a wide range of physical and mental conditions, and thus are not totally comparable. The Americans With Disabilities Act of 1990 (ADA) encouraged progress toward standard definitions. Under ADA, an individual is considered to have a disability if he or she has a physical or mental impairment that substantially limits one or more of his or her major life activities, has a record of such impairment, or is regarded as having such an impairment. ADA also contains definitions of specific disabilities. See <http://www.usdoj.gov/crt/ada/pubs/ada.txt>.

Second, data on disabilities frequently are not included in comprehensive institutional records (e.g., in registrars' records in institutions of higher education). If included at all, such information is likely to be kept only in confidential files at an office responsible for providing special services to students. Institutions of higher education are unlikely to have information regarding any students with disabilities who have not requested special services. In elementary/secondary school programs receiving funds to provide special education, however, statistics on all students identified as having special needs are centrally available.

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<sup>1</sup>In all surveys cited as sources of data for this report, efforts were made to minimize these errors.

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<sup>2</sup>U.S. Bureau of Labor Statistics, *A Test of Methods for Collecting Racial and Ethnic Information* (Washington, DC: U.S. Department of Labor, 1995).

Third, information about people with disabilities that is gathered from surveys is often obtained from self-reported responses. Typically, respondents are asked whether they have a disability and to specify what kind of disability it is. Resulting data therefore reflect individual perceptions rather than objective measures.

The attempt to provide estimates of the proportion of the undergraduate student population with disabilities is an example of how these factors coalesce. Self-reported data on the undergraduate student population, collected through a survey to ascertain patterns of student financial aid, suggest that about 10 percent of this population have some disability. Estimates from population surveys of higher education institutions, in contrast, place the estimate much lower, between 1 and 5 percent. Whether this discrepancy is the result of self-perception, incomplete reporting, nonevident disabilities, or differing definitions is difficult to ascertain.

In the final analysis, although considerable information is available about individuals with disabilities in the education system and in the S&E workforce, it is often impossible to compare statistics from different sources.

Several sources of data on people with disabilities are cited here. They include four surveys conducted by the Department of Education’s National Center for Education Statistics (NCES); the American Council on Education–University of California–Los Angeles Survey of the American Freshman: National Norms; and NSF’s Survey of Earned Doctorates (SED), Survey of Doctorate Recipients (SDR), and National Survey of Recent College Graduates (NSRCG). These sources are described in more detail later in this appendix; the following is a brief description of how each survey treats the issue of disability.

- **NCES surveys.** Four NCES surveys collect disability-related information—the National Education Longitudinal Study, the Beginning Postsecondary Students Longitudinal Study, the Baccalaureate and Beyond Study, and the National Postsecondary Student Aid Study (NPSAS). Text table 1 provides a quick comparison of the disability-related information collected by these surveys.

TEXT TABLE 1. Selected characteristics of NCES disability-related surveys

Characteristic	NELS	BPS	B&B	NPSAS
Survey year	1988	1990/94	1993/97	2000
Questionnaire respondent	Parent	Student	Student	Student
Question as asked in the survey	In your opinion, does your eighth-grader have any of the following problems? AND Has your eighth-grader ever received special services for any or all of the following?	Do you have any of the following conditions?	Do you have any of the following disabilities?	Do you have any disabilities, such as a hearing, speech, or mobility impairment, or vision problems that can't be corrected with glasses?
Disability type as categorized by the survey				
Visual impairment	Visual handicap (not correctable by glasses)	Visual handicap	Vision impairment that cannot be corrected with glasses, or are you legally blind?	Legally blind or have a vision impairment that cannot be corrected with glasses
Hearing impairment or deaf	Hearing problem OR deafness	Hard-of-hearing OR deafness	Hearing impairment	A hearing impairment
Speech impairment	Speech problem	Speech disability	Speech disability or limitation	A speech disability or limitation
Orthopedic impairment	Orthopedic problem (for example: club foot, absence of arm or leg, cerebral palsy, amputation, polio)	Orthopedic handicap	Orthopedic or mobility limitation	An orthopedic or mobility limitation
Learning disability	Specific learning problem (for example: dyslexia or other reading, writing, or math disability)	Specific learning disability	Specific learning disability	A specific learning disability
Other disability or impairment	Other health problem (includes mental retardation) OR emotional problem OR other physical disability	Other health impairment	Any other type of limitations, disabilities, or handicaps	Other health-related disability or limitation

B&B Baccalaureate and Beyond Study  
 BPS Beginning Postsecondary Students Longitudinal Study  
 NELS National Education Longitudinal Study  
 NPSAS National Postsecondary Student Aid Study

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Students With Disabilities in Postsecondary Education: A Profile of Preparation, Participation, and Outcomes*, NCES 1999-187 (Washington, DC, 1999), p. 6.

- **Survey of the American Freshman.** National Norms. The National Norms survey conducted by the American Council on Education and the University of California–Los Angeles asks whether the student has a disability and, if so, whether the student has a disability such as a hearing, speech, orthopedic, learning, health-related, or other disability. The student is asked to mark all that apply.
- **NSF surveys.** The three NSF surveys, SED, SDR, and NSRCG, provide individual respondents' answers. SED asks if the respondent has a disability, then asks the respondent to mark what category applies to the disability. SDR and NSRCG ask the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual with a disability or disabilities may have in performing life activities. Those respondents who answered “moderate,” “severe,” or “unable to do” for any activity were classified as disabled. Text table 2 compares SED, SDR, and NSRCG treatment of disability.

## Primary data sources

Data from several sources are presented here. This section provides summary descriptions of major sources and information about the location of more detailed survey descriptions.

### Primary NSF sources

The following sources from NSF's Division of Science Resources Statistics (SRS) were used for data tables in this publication. Published data tables from these surveys can be accessed on the SRS website at <http://www.nsf.gov/sbe/srs>. In addition, researchers may access data directly from the Scientists and Engineers Statistics Data System (SESTAT) or the WebCASPAR database system, which also can be accessed from the SRS website.

## Survey of Earned Doctorates

SED has been conducted annually since 1957 for NSF, the U.S. Department of Education, the National Endowment for the Humanities, the National Institutes of Health, the National Aeronautics and Space Administration, and the U.S. Department of Agriculture. This is a survey of all recipients of research doctoral degrees such as the doctor of philosophy (Ph.D.) or doctor of science (D.Sc.); it excludes the recipients of first professional degrees such as the juris doctor (J.D.) or doctor of medicine (M.D.). Therefore, SED data are restricted to research doctorates.

Data for SED are collected directly from individual doctorate recipients contacted through graduate deans at all U.S. universities awarding research doctorates. The recipients are asked to provide information about the field and specialty of their degree as well as their personal educational history, selected demographic data, and information about their postgraduate work and study plans. Over time, approximately 95 percent of the annual cohort of doctorate recipients respond to the questionnaire.

Partial data from public sources, such as field of study, are added to the file for nonrespondents. No imputations are made, however, for nonresponse for data not available elsewhere, such as race/ethnicity information. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year. Information about SED can be found on the Web at <http://www.nsf.gov/sbe/srs/ssed/start.htm>.

## Survey of Graduate Students and Postdoctorates in Science and Engineering

The data collected in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) represent national estimates of graduate enrollment and postdoctoral employment at the beginning of the academic year in all academic institutions in the United States that offer doctoral or master's degree programs in any S&E field. Included are data for all branch campuses; affiliated research

TEXT TABLE 2. SED, SDR, and NSRCG definitions of *disability*

Disability (mark all that apply)	Difficulty with physical functions (mark one choice for each)
Visual	SEEING words or letters in ordinary newsprint (with glasses/contact lenses if you usually wear them)
Auditory	HEARING what is normally said in conversation with another person (with a hearing aid, if you usually wear one)
Orthopedic	WALKING without human assistance or using stairs (mobility)
[No corresponding category in SED]	LIFTING or carrying something as heavy as 10 pounds, such as a bag of groceries
Vocal	[No corresponding category in SDR]
Other	[No corresponding category in SDR]
SDR	Survey of Doctorate Recipients
SED	Survey of Earned Doctorates
NSRCG	National Survey of Recent College Graduates



centers; and separately organized components such as medical or dental schools, schools of nursing, and schools of public health. In fall 2001, the survey population consisted of 721 reporting units at 606 graduate institutions. Data are collected at the academic department level. In fall 2001, the response rate was 98.5 percent for institutions and 99.0 percent for departments.

Available information includes full-time graduate students by source and mechanism of support, including data on women and first-year students enrolled full time, part-time graduate students by sex, and citizenship and racial/ethnic background of all graduate students. In addition, detailed data on postdoctorates are available by source of support, sex, and citizenship, including separate data on those holding first professional doctorates in the health fields; summary information about other doctoral nonfaculty research personnel is also included.

NSF has collected data on graduate S&E enrollment and postdoctoral appointees since 1966. From fall 1966 through fall 1971, data from a limited number of doctorate-granting institutions were collected through the NSF Graduate Traineeship Program, which requested data only on those S&E fields supported by NSF. Beginning with the fall 1972 survey, this data collection effort was assigned to SRS. It was gradually expanded during the period 1972–75 to include additional S&E fields as well as all institutions known to have programs leading to the master's or doctoral degree. Because of this expansion, data for 1974 and earlier years are not strictly comparable with 1975 and later data. Information about GSS can be found on the Web at <http://www.nsf.gov/sbe/srs/sgss/start.htm>.

### **Survey of Doctorate Recipients**

SDR is a longitudinal panel survey of individuals who have received their doctorates in the United States in the sciences or engineering. Since the 1970s, this study has been conducted every 2 years for NSF and other Federal sponsors. It provides information about educational background, occupation, employment, and demographic characteristics of S&E doctorate holders.

The sampling frame for the 2001 SDR included individuals who had earned a doctoral degree from a U.S. college or university in an S&E field; were U.S. citizens or, if non-U.S. citizens, indicated that they had plans to remain in the United States after receiving their degrees; and were under 76 years of age. In 2001, the SDR sample size was 40,000. The overall unweighted response rate for the 2001 SDR was 82.2 percent. The overall weighted response rate was 82.6 percent (weighted responses divided by the number of

weighted sample cases). To minimize the effect of non-response error, results were adjusted for nonresponse through the use of statistical weighting techniques.

SDR classifies the following broad categories as S&E occupations: computer and mathematical scientists, life and related scientists, physical and related scientists, social and related scientists, and engineers. Postsecondary teachers are included within each of these groups. The following are considered non-S&E occupations: top and midlevel managers; teachers, except S&E postsecondary teachers; technicians/technologists, including computer programmers; people in health and related occupations; social services and related occupations; sales and marketing occupations; and other non-S&E occupations—for example, artists, broadcasters, editors, entertainers, public relations specialists, writers, clerical and administrative support personnel, farmers, foresters, lawyers, judges, librarians, archivists, curators, actuaries, food service personnel, historians (except science and technology), architects, construction tradespeople, mechanics and repairers, and those involved in precision/production occupations, operators (for example, machine setup operators, machine operators and tenders, fabricators, assemblers) and related occupations, transportation/material-moving occupations, and protective and other service occupations. Information about SDR can be found on the Web at <http://www.nsf.gov/sbe/srs/ssdr/start.htm>.

### **Primary non-NSF sources**

The following non-NSF sources were used for data tables in this report.

#### ***The Integrated Postsecondary Education Data System Survey: Fall Enrollment, Completions, and Institutional Characteristics***

**Contact:** National Center for Education Statistics  
U.S. Department of Education  
1990 K Street, NW  
Washington, DC 20006  
(202) 502-7300  
<http://nces.ed.gov/ipeds>

The Integrated Postsecondary Education Data System (IPEDS) Survey began in 1986 as a supplement to and replacement for the Higher Education General Information Survey (HEGIS), which began in 1966. HEGIS annually surveyed institutions listed in the current NCES *Education Directory of Colleges and Universities*; IPEDS surveys all postsecondary institutions, including universities and colleges

and the institutions that offer technical and vocational education. IPEDS consists of several integrated component surveys that obtain information about types of institutions where postsecondary education is available, student participants, fall enrollments, programs offered and completed, graduation rates, and the human and financial resources involved in the delivery of postsecondary education. Descriptions of these surveys follow.

The **IPEDS Institutional Characteristics Survey** provides the basis for the list of institutions reported in the Education Directory of Colleges and Universities. The list includes institutions that meet specific accreditation criteria and offer at least a 1-year program of college-level studies leading to a degree. Each fall, institutions listed in the previous year's directory are asked to update information about their school's characteristics.

The **IPEDS Completions Survey** replaces and extends the HEGIS Degrees and Other Formal Awards Conferred Survey. It is administered to all institutions offering degrees at the bachelor's degree level and above, 2-year institutions, and less-than-2-year institutions.

The **IPEDS Fall Enrollment Survey** replaces and extends the previous HEGIS surveys of enrollment in institutions of higher education.

### ***The National Postsecondary Student Aid Study***

**Contact:** National Center for Education Statistics  
U.S. Department of Education  
1990 K Street, NW  
Washington, DC 20006  
(202) 502-7300  
<http://nces.ed.gov/npsas>

NPSAS was established by NCES to collect information about financial aid allocated to students enrolled in U.S. postsecondary institutions. NPSAS was first administered in the fall of the 1986–87 academic year. NCES conducted subsequent cycles of NPSAS during the 1989–90, 1992–93, 1995–96, and 1999–2000 academic years.

The 1999–2000 survey gathered information from about 62,000 undergraduate and graduate students selected from registrars' lists of enrollees at more than 900 postsecondary institutions. The sample included students who did and did not receive financial aid, as well as students' parents. Student information, such as field of study, educational level, and attendance status (part time or full time), was obtained from registrars' records. Types and amounts of financial aid and family financial characteristics were abstracted from school financial aid records. Data pertaining to family circumstances,

background demographic data, educational and work experiences, and expectations were collected from students using a computer-assisted telephone interview. The response rate for obtaining institutional record data for all students was 97.0 percent, and the weighted overall student interview response rate was 65.6 percent.

### ***Survey of Engineering and Technology Enrollments and Survey of Engineering and Technology Degrees***

**Contact:** Matt Doster  
Engineering Workforce Commission  
American Association of Engineering Societies  
1111 19th Street, NW  
Suite 403  
Washington, DC 20036  
(202) 546-2237  
<http://www.ewc-online.org/>

For 35 years, the Engineering Workforce Commission (EWC) has conducted annual surveys of enrollments and degrees conferred in engineering programs. In 2002, EWC collected data on engineering enrollments and engineering degrees conferred from 351 and 347 institutions, respectively, including all of those with curricula approved by the Accreditation Board for Engineering and Technology (ABET). EWC counts the number of students studying for engineering degrees at all ABET-accredited engineering schools throughout the United States. Historically, EWC has also included schools that are not ABET accredited for a variety of reasons unique to each school. Some schools are in the process of obtaining ABET accreditation; others have simply asked to be included in the survey. The response rate for the 2002 enrollment survey was 87 percent, and the response rate for the 2002 degrees survey was 92 percent. Each year, EWC obtains data from all schools included in the previous year's survey to ensure accurate time-series comparisons.

### **Sampling Errors**

Sampling errors occur when estimates are derived from a sample rather than the entire population. The sample used for any particular survey is only one of a large number of possible samples of the same size and design that could have been selected. Even if all other aspects of the survey remained fixed, such as the questionnaire and instructions, the estimates from each sample would differ from other

samples. This difference, termed sampling error, occurs by chance, and its variability is measured by the standard error associated with a particular estimate.

The standard error of a sample survey estimate measures the precision with which an estimate from one sample approximates the true population value, and it can be used

to construct a confidence interval for a survey parameter to assess the accuracy of the estimate. See the technical notes section of *Characteristics of Doctoral Scientists and Engineers in the United States: 2001* at <http://www.nsf.gov/sbe/srs/nsf03310/start.htm> for information about calculation of standard errors for data from SDR.

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# Related Reports from NSF

## K –12 Education

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002.* NSF 03-312. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03312/start.htm>.

## Graduate Enrollment

*Graduate Enrollment Increases in Science and Engineering Fields, Especially in Engineering and Computer Sciences.* NSF 03-315. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/infbrief/nsf03315/start.htm>.

*Graduate Students and Postdoctorates in Science and Engineering: Fall 2001.* NSF 03-320. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03320/start.htm>.

*Modes of Financial Support in the Graduate Education of Science and Engineering Doctorate Recipients.* NSF 00-319. Arlington, VA, 2000. Available at <http://www.nsf.gov/sbe/srs/nsf00319/start.htm>.

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002.* NSF 03-312. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03312/start.htm>.

## Undergraduate and Graduate Degrees

*Declines in U.S. Doctorate Awards in Physics and Engineering.* NSF 02-316. Arlington, VA, 2002. Available at <http://www.nsf.gov/sbe/srs/infbrief/nsf02316/start.htm>.

*Science and Engineering Degrees: 1966–2000.* NSF 02-327. Arlington, VA, 2002. Available at <http://www.nsf.gov/sbe/srs/nsf02327/start.htm>.

*Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1991–2000.* NSF 02-329. Arlington, VA, 2002. Available at <http://www.nsf.gov/sbe/srs/nsf02329/start.htm>.

*Science and Engineering Doctorate Awards: 2001.* NSF 03-300. Arlington, VA, 2001. Available at <http://www.nsf.gov/sbe/srs/nsf03300/start.htm>.

*Women, Minorities and Persons With Disabilities in Science and Engineering: 2002.* NSF 03-312. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03312/start.htm>.

## Employment

*Characteristics of Doctoral Scientists and Engineers in the United States: 2001.* NSF 03-310. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03310/start.htm>.

*Characteristics of Recent Science and Engineering Graduates: 1999.* NSF 03-319. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03319/start.htm>.

*How Large Is the U.S. S&E Workforce?* NSF 02-325. Arlington, VA, 2002. Available at <http://www.nsf.gov/sbe/srs/infbrief/nsf02325/start.htm>.

*Interstate Migration Patterns of Recent Science and Engineering Doctorate Recipients.* NSF 02-311. Arlington, VA, 2002. Available at <http://www.nsf.gov/sbe/srs/nsf02311/start.htm>.

*Characteristics of Scientists and Engineers in the United States: 1999.* Available at <http://srsstats.sbe.nsf.gov/preformatted-tables/1999/DST1999.html>.

*Women, Minorities and Persons With Disabilities in Science and Engineering: 2002.* NSF 03-312. Arlington, VA, 2003. Available at <http://www.nsf.gov/sbe/srs/nsf03312/start.htm>.

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# Additional Sources of Information

## Population Estimates and Projections

*Statistical Abstract of the United States: 2001* (tables 10–17). Available at <http://www.census.gov/statab/www>.

National Population Estimates by Age, Sex, and Race/Ethnicity: 2001:

By Sex and Race/Ethnicity: Available at <http://eire.census.gov/popest/data/national/asro.php>

By Age and Sex: Available at <http://eire.census.gov/popest/data/national/asro.php>

By Age and Race/Ethnicity: Available at <http://eire.census.gov/popest/data/national/asro.php>

## Precollege Education

### Precollege Mathematics and Science Achievement

National Center for Education Statistics, *Children's Reading and Mathematics Achievement in Kindergarten and First Grade*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002125>.

National Center for Education Statistics, National Assessment of Educational Progress (NAEP), *The Nation's Report Card*:

Science: Available at <http://nces.ed.gov/nationsreportcard/science>.

Mathematics: Available at <http://nces.ed.gov/nationsreportcard/mathematics>.

### High School Science and Mathematics Coursetaking

The College Board, Advanced Placement Program, *2002 State and National Summary Reports*. Available at [http://www.collegeboard.com/ap/library/state\\_nat\\_rpts\\_02.html](http://www.collegeboard.com/ap/library/state_nat_rpts_02.html).

Council of Chief State School Officers (CCSSO), *Biennial Report: State Indicators of Science and Mathematics Education*. Available at <http://www.ccsso.org/content/pdfs/SciMathIndicators2001.pdf>.

National Center for Education Statistics, *The Condition of Education: 2002*. Available at <http://nces.ed.gov/programs/coe/2002/section4/indicator27.asp>.

### Students Served Under the Individuals With Disabilities Education Act (IDEA)

U.S. Department of Education, Office of Special Education Programs, *Annual Report to Congress*. Available at <http://www.ed.gov/offices/OSERS/OSEP/Products/comppubs.html>.

### Mathematics and Science Teachers

National Center for Education Statistics, *Public School Student, Staff, and Graduate Counts, by State: School Year 2001–02*. Available at [http://nces.ed.gov/pubs2003/snf\\_report03](http://nces.ed.gov/pubs2003/snf_report03).

National Center for Education Statistics, Schools and Staffing Survey (elementary and secondary education). Available at <http://nces.ed.gov/surveys/sass>.

### Number of Students

National Center for Education Statistics, *Public School Student, Staff, and Graduate Counts, by State: School Year 2001–02*. Available at [http://nces.ed.gov/pubs2003/snf\\_report03](http://nces.ed.gov/pubs2003/snf_report03).

### Computer Use

National Center for Education Statistics, *Advanced Telecommunications in U.S. Private Schools: 1998–99*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2001037>.

National Center for Education Statistics, *Beyond School-Level Internet Access: Support for Instructional Use of Technology*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002029>.

National Center for Education Statistics, *Internet Access in U.S. Public Schools and Classrooms: 1994–2000*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2001071>.

National Center for Education Statistics, *Teacher Use of Computers and the Internet in Public Schools*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2000090>.

National Center for Education Statistics, *Young Children's Access to Computers in the Home and at School in 1999 and 2000*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2003036>.

## High School Completion

National Center for Education Statistics, *Public High School Dropouts and Completers From the Common Core of Data: School Years 1998–99 and 1999–2000*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002382>.

National Center for Education Statistics, *The Condition of Education*. Available at <http://nces.ed.gov/programs/coe/2002/section3/indicator25.asp>.

## Undergraduate Education

Higher Education Research Institute (HERI), University of California at Los Angeles, *The American Freshman—National Norms 2002*. Available at [http://www.gseis.ucla.edu/heri/american\\_freshman.html](http://www.gseis.ucla.edu/heri/american_freshman.html).

National Center for Education Statistics, *Digest of Education Statistics, 2002*. Available at <http://nces.ed.gov/pubs2003/digest02>.

## Educational Persistence and Attainment

National Center for Education Statistics, *Coming of Age in the 1990s: The Eighth-Grade Class of 1988 12 Years Later*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002321>.

National Center for Education Statistics, *Competing Choices: Men's and Women's Paths After Earning a Bachelor's Degree*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2001154>.

National Center for Education Statistics, *Digest of Education Statistics, 2000*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2003060>.

National Center for Education Statistics, *Educational Achievement and Black-White Inequality*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2001061>.

National Center for Education Statistics, *Entry and Persistence of Women and Minorities in College Science and Engineering Education*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2000601>.

National Center for Education Statistics, *Public High School Dropouts and Completers From the Common Core of Data: School Years 1991–92 Through 1997–98*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002317>.

National Center for Education Statistics, *The Influence of High School Racial Composition on Black College Attendance and Test Performance*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=78212>.

National Center for Education Statistics, *Trends in Educational Equity of Girls & Women*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2000030>.

U.S. Census Bureau, Current Population Survey, Educational Attainment Data. Available at <http://www.census.gov/population/www/socdemo/educ-attn.html>.

## Minority Education

American Council on Education, *Nineteenth Annual Status Report on Minorities in Higher Education 2001–02*. Available at <http://www.acenet.edu/programs/omhe/status-report/index.cfm#tables>.

National Center for Education Statistics, *American Indians and Alaska Natives in Postsecondary Education*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=98291>.

National Center for Education Statistics, *Educational Achievement and Black-White Inequality*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2001061>.

National Center for Education Statistics, *Status and Trends in the Education of Hispanics*. Available at <http://nces.ed.gov/pubs2003/hispanics>.

National Center for Education Statistics, *The Influence of High School Racial Composition on Black College Attendance and Test Performance*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=78212>.

## Students With Disabilities

National Center for Education Statistics, *An Institutional Perspective on Students With Disabilities in Postsecondary Education*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=1999046>.

National Center for Education Statistics, *Postsecondary Students with Disabilities: Enrollment, Services, and Persistence*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2000092>.

National Center for Education Statistics, *What Are the Barriers to the Use of Advanced Telecommunications for Students With Disabilities in Public Schools?* Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2000042>.

The George Washington University, HEATH Resource Center, *2001 College Freshmen With Disabilities: A Biennial Statistical Profile*. Available at <http://www.heath.gwu.edu/PDFs/collegefreshmen.pdf>.

## Minority-Serving Institutions

National Center for Education Statistics, *Hispanic Serving Institutions: Statistical Trends From 1990 to 1999*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002051>.

U.S. Department of Education, Office of Civil Rights (list of minority serving institutions). Available at <http://www.ed.gov/offices/OCR/minorityinst.html>.

## International Participation in Science and Engineering

Organisation for Economic Co-operation and Development, *Education at a Glance* (annual) (contains data on education by sex and country). Available at <http://www.oecd.org>.

The World Bank Group, GenderStats (electronic database of gender statistics on enrollment and attainment by sex and country). Available at <http://genderstats.worldbank.org>.

## Employment and Faculty

Committee on Women in Science and Engineering, National Research Council, *Female Engineering Faculty at U.S. Institutions: A Data Profile*. Available at <http://www4.nationalacademies.org/osep/cwse.nsf/web/publications?OpenDocument>.

National Center for Education Statistics, *Gender and Racial/Ethnic Differences in Salary and Other Characteristics of Postsecondary Faculty: Fall 1998*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002170>.

National Center for Education Statistics, *The Gender and Racial/Ethnic Composition of Postsecondary Instructional Faculty and Staff, 1992-98*. Available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002160>.

National Research Council, Committee on Women in Science and Engineering, *From Scarcity to Visibility: Gender Differences in the Careers of Doctoral Scientists and Engineers*. Available at <http://www4.nationalacademies.org/osep/cwse.nsf/web/publications?OpenDocument>.

Nelson, D. J., The Nelson Diversity Surveys (2002) (tables with number of faculty, by sex, race/ethnicity, and rank at top 50 institutions, by field). Available at <http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html>.

University of California, Los Angeles, Higher Education Research Institute, Faculty Survey. Available at [http://www.gseis.ucla.edu/heri/c\\_button5.html](http://www.gseis.ucla.edu/heri/c_button5.html).

U.S. Office of Personnel Management, (Federal employment statistics, by occupational group, sex, race/ethnicity, and disability status). Available at <http://www.opm.gov/feddata/index.asp>.

## **Science and Engineering Fields**

### **All fields**

Commission on Professionals in Science and Technology. <http://www.cpst.org>.

### **Chemistry**

American Chemical Society. <http://www.chemistry.org/portal/a/c/s/1/career.html?DOC=careers\facts.html>.

### **Computer science**

Computing Research Association. <http://www.cra.org/main/cra.info.html>.

### **Engineering**

American Society for Engineering Education. <http://www.asee.org/colleges>.

Engineering Workforce Commission. <http://www.ewc-online.org>.

### **Geosciences**

American Geological Institute. <http://www.earthscienceworld.org/careers/stats/demograp.html>.

### **Mathematics**

American Mathematical Society. <http://www.ams.org/employment/surveyreports.html>.

### **Physics**

American Institute of Physics. <http://www.aip.org/statistics>.

### **Political science**

American Political Science Association. <http://www.apsanet.org/opps/data>.

### **Psychology**

American Psychological Association. <http://research.apa.org>.

### **Sociology**

American Sociological Association. <http://www.asanet.org/research>.