Digital Government Fellow Speaks at SuperComputing 2000

By Geoffrey M. Voelker

At the SuperComputing 2000 conference in November, I presented a talk entitled, "On the Scale and Performance of Cooperative Web Proxy Caching." I gave this talk to inaugurate the Computing Research Association/San Diego Supercomputer Center Digital Government Fellowship Program.

The program is supported by the National Science Foundation's Digital Government Program, and is intended to build ties between academic and industrial computing research communities, as well as among information technology workers in federal, state, and local governments. In this article, I describe research to investigate techniques for improving the performance of large-scale, wide-area Web-based information services such as those envisioned in the Digital Government Program.

As described in the report from the 1998 Digital Government Workshop [1], the NSF Digital Government Program is a very broad, multidisciplinary initiative to foster research and collaboration for using information technology to transform public services at all levels of government. Whether digital government results in transformations in public service as convenient as downloading tax forms from the IRS website, as immediate as viewing webcasts of city council meetings or congressional hearings, or as sensational as electronic voting in presidential elections, the systems supporting current and future digital government services will continue to grow in complexity and scale. Given the increasing interdependence among government agencies at the local, state, and federal levels, as well as among the public, private, and non-profit sectors, the systems providing digital government services will be distributed among many organizations and geographic sites spanning the national internetwork. Furthermore, as government services move online, citizens expect those distributed government services to have the same quality, performance, and convenience as other online services.

Given the complexities of the systems providing digital government services, delivering performance for these systems is a key challenge. In our work, we take a two-pronged approach to exploring the limits and potentials of cooperative proxy caching. A first approach, we collect and analyze traces from two environments: the University of Washington and the Microsoft Corporation. These traces enable us to investigate the performance benefits of cooperative Web caching systems at small (100s to 1000s of users) and medium (1000s to 10000s of users) population sizes. A second approach is to investigate techniques for improving the performance of large-scale, wide-area Web-based information services such as those envisioned in the Digital Government Program. In particular, the research that I presented in the talk explores the potential for large-scale cooperative Web caching systems to improve Web performance. This research was in collaboration with Alec Wolman, Hank Levy, Anna Karlin, and others at the University of Washington.

Internet proxy caching has become a commonplace approach for improving the performance of Web browsers. Typically, the proxy sits in front of an entire company or organization. By caching requests for a group of users, a proxy can quickly return documents previously accessed by other clients. Ultimately, though, the hit rate of the proxy is a function of the size of the population it manages—a size often dictated by political, organizational, or geographic considerations. A compelling question, then, is whether multiple proxies should cooperate with each other in order to increase total client population, improve hit ratios, and reduce document-access latency. Whether such cooperative proxy caching is a useful architecture for improving performance depends on a number of factors. These factors include the sharing patterns of documents across organizations, the ratio of inter-proxy communication time to server fetch time, and the scale at which cooperation is undertaken.

Several cooperative Web caching architectures and protocols have been proposed in the research community for building large-scale distributed caching systems. However, few studies have examined cooperative Web caching from a systemic viewpoint. As a result, we know neither the environments in which cooperative caching is useful (if any) nor its potential performance benefits. A narrowing such questions has been difficult in the past because studying proxy cooperation requires simultaneous traces from multiple proxies.

In our work, we take a two-pronged approach to exploring the limits and potentials of cooperative proxy caching. A first approach, we collect and analyze traces from two environments: the University of Washington and the Microsoft Corporation. These traces enable us to investigate the performance benefits of cooperative Web caching systems at small (100s to 1000s of users) and medium (1000s to 10000s of users) population sizes. A second approach is to investigate techniques for improving the performance of large-scale, wide-area Web-based information services such as those envisioned in the Digital Government Program.
Expanding the Pipeline

Outstanding Undergraduate Award Winners

The Computing Research Association (CRA) Outstanding Undergraduate Awards competition for 2001, sponsored this year by Microsoft, has received the outstanding female Undergraduate award. Kevin Zatloukal, University of Washington, received the Outstanding Male Undergraduate award. Liza Stark, University of Delaware, was the runner-up for the female award. Russell Cox, Harvard University, was named runner-up for the male award.

About the Winners

Kevin Zatloukal is majoring in computer science and mathematics at the University of Washington. He has helped to develop a computer-aided conceptual design environment and is currently working on the use of decision-theoretic and case-based planning techniques for the control of distributed, multi-agent systems. Lisa also has authored four papers and presented two papers at major conferences. She has also been a summer researcher at the National Institute of Standards and Technology (NIST).

Liza has received numerous honors at Drexel, including the 1999 Award for Outstanding Industry, Leadership, and Academics in Computing. She has also been a summer researcher at Drexel, working on the control of distributed, multi-agent systems. Zatloukal has also co-authored four papers and presented two papers at major conferences. She has also been a summer researcher at the National Institute of Standards and Technology (NIST).

Liza Stark is a senior at the University of Delaware, majoring in computer science and Spanish, with minors in cognitive science, linguistics, and psychology. Liza's research interest is in human-computer interaction, particularly natural language processing. Zatloukal is currently working on an honors thesis. Kevin has been a research assistant for projects in both computer science and cognitive science, and she has worked two summers at AT&T Research Labs.

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Historical Trends from Taulbee Surveys: Faculty Salaries

By Jay Vegso

This is the first in a series of articles reporting trends in data from the Taulbee Survey and its antecedents, which stretch back to 1970. All of these articles will be collected at http://www.cra.org/statistics. This article reports salaries for U.S. CS departments in order to provide some context for this issue's article on the 1999-2000 Taulbee Survey and its antecedents, including 1993 data, salaries are weighted by the number of faculty at each institution. From 1994 on, the averages are unweighted, calculated by averaging the mean salaries reported by each department.

Results from CE departments were included with those from CS until the 1986-87 survey. Because few CE departments were reporting data in these years, it is unlikely that they had a significant impact on the figures. Figure 1 traces the average salaries of CSE professors by type of position. The increase in salaries in the past few years has led to a rise in real (inflation-adjusted) terms salaries enjoyed by assistant professors between 1997 and 2001.

Figure 1. Avergae Salaries of US-CS Departments by Position

Figure 2. Salaries of CS Full/Professors by Rank

Figure 2 breaks down the salaries for full professors according to the NRC rankings of CS departments released in 1982 and 1995. There were a small number of changes between 1986 and 2001 of 15 percent for associate professors, 13 percent for assistant professors, and 10 percent for full professors. Particularly noticeable is the 13 percent increase in among the top 36 departments when the new rankings appeared in 1995.

Taulbee Surveys Continued on Page 6
By Mary Jane Irwin and Randy Bryant

Each September the Computing Research Association surveys academic departments in the United States and Canada that offer the Ph.D. in computer science or computer engineering. The annual CRA Taulbee Survey collects data on enrollment in the undergraduate, master’s, and Ph.D. computer programs; employment of Ph.D. graduates of these programs; and number and salaries of faculty in these programs.

This is the 30th year that CRA has tracked the production and employment of Ph.Ds in the computer science field. For the past 14 years, computer engineering data has also been incorporated into the survey. The traditionally high response rate to the survey makes the results particularly useful, given the data are used widely, not only by CRA’s members but also by other organizations and institutions.

Each January, as a service to our members, CRA publishes a preliminary report of the survey’s faculty salary data. We believe these preliminary results comprise enough data to be valuable and valid as tools for planning the spring faculty-recruiting season. The full survey results—including updated salary data; employment; and trend analyses—will appear in the March 2001 issue of CRN.

Tables 1 through 8 show the results in a format comparable to that used in previous CRA surveys. Due to a low return rate to date for computer engineering programs (only 5 of 28 programs have been received), we have not reported preliminary salary data for computer engineering. Information from all of the surveys returned will be published in the final report in March. In the tables that group the departments by rank, the groupings are based on the 1993 National Research Council ranking of research-doctorate programs in the United States, released in 1995 (http://crc.org/stat/acidmcri/crcstud20).

Each department was asked to report the minimum, mean, and maximum salary for each rank (full, associate, and assistant professors and non-tenure-track teaching faculty) and the number of persons at each rank. The salaries are those in effect as of January 1, 2001. For U.S. departments, nine-month salaries are reported in U.S. dollars. For Canadian departments, twelve-month salaries are reported in Canadian dollars. Respondents were asked to include salary supplements such as salary advances from endowed positions. The minimum and maximum of the reported salary minima (and maxima) are self-explanatory. The range of salaries in a given rank among departments that reported data for that rank is the interval (“minimum of the minima,” “maximum of the maxima”). The mean of the reported salary minima (maximum in a given rank) is computed by summing the departmental reported minimum (maximum) and dividing by the number of departments reporting data at that rank. The average salary at each rank is computed by summing the individual means reported at each rank and dividing by the number of departments reporting at that rank.

For comparison with last year’s data, Table 8 shows, separately, the overall average computer science salaries for U.S. departments and for Canadian departments. The preliminary data from 1999 are those published in the January 2000 CRN, and the final data from 1999 are those published in the March 2000 CRN. When compared with the final 1999-2000 data, the U.S. average salaries have increased by:

- 7.6 percent for non-tenure-track faculty
- 6.9 percent (compared with a 6.5 percent increase last year) for assistant professors
- 6.9 percent (4.7 last year) for associate professors
- 4.5 percent (2.7 last year) for full professors

In contrast to last year, Canadian average salaries have increased at the lower rates of:

- 5.0 percent for assistant professors (compared with 9.2 percent last year)
- 5.1 percent for associate professors (6.7 last year)
- 0.8 percent for full professors (5.4 last year)

Since the rate of return for the survey is somewhat higher than this time last year, other comparisons are more difficult to make. However, Tables 2, 3, and 4 report the data for the same set of schools reporting last year. In the group of U.S. computer science departments ranked 1 through 36, the average salaries for tenure-track faculty increased from a low of 3.6 percent (associates in departments ranked 13-24) to a high of 7.9 percent (assistants in those ranked 13-24). The average increase was 5.9 percent.

Mary Jane Irwin (Pennsylvania State University) and Randy Bryant (Carnegie Mellon University) co-chair the CRA Taulbee Survey Committee.

### Table 1. Nine-month Salaries, 136 Responses of 163 US CS Computer Science Departments

<table>
<thead>
<tr>
<th>Faculty Rank</th>
<th>Number of Faculty</th>
<th>Reported Salary Minimum</th>
<th>Reported Salary Mean</th>
<th>Reported Salary Maximum</th>
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</thead>
<tbody>
<tr>
<td>Non-Tenure Teaching</td>
<td>522.5</td>
<td>$19,692</td>
<td>$45,455</td>
<td>$95,604</td>
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<tr>
<td>Associate</td>
<td>740</td>
<td>$29,997</td>
<td>$64,913</td>
<td>$77,000</td>
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<tr>
<td>Full</td>
<td>897</td>
<td>$42,616</td>
<td>$70,378</td>
<td>$98,000</td>
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<tr>
<td></td>
<td>1254</td>
<td>$48,000</td>
<td>$80,864</td>
<td>$108,300</td>
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</table>

### Table 2. Nine-month Salaries, 11 Responses of 12 US CS Computer Science Departments Ranked 1-12

<table>
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<tr>
<th>Faculty Rank</th>
<th>Number of Faculty</th>
<th>Reported Salary Minimum</th>
<th>Reported Salary Mean</th>
<th>Reported Salary Maximum</th>
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</thead>
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<tr>
<td>Non-Tenure Teaching</td>
<td>62.5</td>
<td>$35,856</td>
<td>$57,448</td>
<td>$95,604</td>
</tr>
<tr>
<td>Assistant</td>
<td>104</td>
<td>$46,800</td>
<td>$69,737</td>
<td>$75,006</td>
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<td>Associate</td>
<td>81</td>
<td>$68,560</td>
<td>$78,077</td>
<td>$98,000</td>
</tr>
<tr>
<td>Full</td>
<td>216</td>
<td>$48,000</td>
<td>$83,682</td>
<td>$95,000</td>
</tr>
</tbody>
</table>

### Table 3. Nine-month Salaries, 12 Responses of 12 US CS Computer Science Departments Ranked 13-24

<table>
<thead>
<tr>
<th>Faculty Rank</th>
<th>Number of Faculty</th>
<th>Reported Salary Minimum</th>
<th>Reported Salary Mean</th>
<th>Reported Salary Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Tenure Teaching</td>
<td>53</td>
<td>$41,400</td>
<td>$56,797</td>
<td>$68,200</td>
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<tr>
<td>Assistant</td>
<td>68</td>
<td>$66,200</td>
<td>$70,693</td>
<td>$77,000</td>
</tr>
<tr>
<td>Associate</td>
<td>63</td>
<td>$61,520</td>
<td>$77,884</td>
<td>$88,000</td>
</tr>
<tr>
<td>Full</td>
<td>183</td>
<td>$69,103</td>
<td>$84,306</td>
<td>$108,300</td>
</tr>
</tbody>
</table>

### Table 4. Nine-month Salaries, 12 Responses of 12 US CS Computer Science Departments Ranked 25-36

<table>
<thead>
<tr>
<th>Faculty Rank</th>
<th>Number of Faculty</th>
<th>Reported Salary Minimum</th>
<th>Reported Salary Mean</th>
<th>Reported Salary Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Tenure Teaching</td>
<td>46</td>
<td>$36,000</td>
<td>$51,081</td>
<td>$71,080</td>
</tr>
<tr>
<td>Assistant</td>
<td>76</td>
<td>$61,000</td>
<td>$67,619</td>
<td>$73,250</td>
</tr>
<tr>
<td>Associate</td>
<td>83</td>
<td>$61,427</td>
<td>$74,571</td>
<td>$86,803</td>
</tr>
<tr>
<td>Full</td>
<td>140</td>
<td>$67,574</td>
<td>$85,902</td>
<td>$98,000</td>
</tr>
</tbody>
</table>
Nominees Sought for CRA Board

The Computing Research Association is seeking nominations for its Board of Directors. The deadline for receipt of nominations is March 1, 2001.

Each spring CRA’s member organizations elect about one-third of the association’s board members to three-year terms. Candidates are not required to be affiliated with CRA member organizations. It is important that the CRA Board represents the interests of the entire computing research community, and it is CRA’s policy to solicit a broad range of candidates.

The CRA board is a working board, and all members are expected to actively participate. Although CRA has a small professional staff, board members have detailed involvement in all major projects. Recent and current projects include:

- Planning the biennial CRA Conference at Snowbird.
- Conducting the annual CRA Taulbee Survey.
- Conducting other surveys (e.g., industrial lab salaries, departmental budgets, space, personnel).
- Developing workshops on critical policy issues for computing research.
- Planning academic and industrial careers and effective teaching workshops.
- Increasing the participation of women and minorities in computing research, with the help of National Science Foundation grants.

In addition to actively participating in board projects, board members are asked to attend at least two board meetings per year and pay their travel costs to the meetings.

Service on this board is important. Research in computer science and computer engineering is facing major challenges as the political environment for government support changes. Computing has been identified as a technology of critical social importance. This increased political attention places new demands on our field and offers new opportunities.

Please contact the person you are nominating before submitting his or her name to ensure that the nominee is willing to stand for election to the board.

Nominees must have a proven record of service to the computing research community and be affiliated with a CRA member organization. In addition, candidates should have a strong commitment to the promotion of women and minorities in computing research.

To receive a nomination form, send an e-mail request to elections@cra.org. Nominees will receive information about CRA and its activities on a regular basis at http://www.cra.org.

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For Details See: http://www.cra.org/Activities/craw/dmp/application2001.html

CRA-W Distributed Mentor Project 2001
Deadline for Applications: February 1, 2001

For Details See: http://www.cra.org/Activities/craw/dmp/application2001.html

CRA Conference at Snowbird 2002
July 14-16, 2002
Transitions and Announcements

Richard A. DeMillo has been appointed vice president and chief technology officer at Hewlett-Packard. Dr. DeMillo was formerly general manager of Information and Computer Sciences Research at Telcordia.

The first John D. Gannon Scholarship was awarded to Aamina Hassan for her outstanding work in computer science at the University of Maryland, College Park. The scholarship fund was established in recognition of John Gannon’s contributions to the field of computer science and to teaching. Professor Gannon, who died suddenly in June 1999, was the former chair of computer science at the University of Maryland and a member of CRA’s board of directors.

Douglas C. Engelbart, Bootstrap Institute, Fremont, Calif., was awarded a 2000 National Medal of Technology by President Clinton in a December 1 ceremony at the White House. Mr. Engelbart was recognized for “creating the foundations of personal computing, including continuous, real-time interaction based on cathode-ray tube displays and the mouse, hypertext linking, text editing, on-line journals, shared-screen tele-conferencing, and remote collaborative work.”

Thomas M. Antunoff, professor of applied mathematics at the University of Colorado, Boulder, begins a two-year term as president of SIA M in January 2001. M Antunoff served as vice president at large from 1996 to 1999.

R. S. Nikhill, former acting director of Compay’s Cambridge Research Lab, has joined Sandoz Crop. a startup company in Medford, Mass.

Fernando C.D. Pereira has been named a new and Debra Radcliffe Professor and Chair of the Department of Computer and Information Science at the University of Pennsylvania, effective July 1, 2001.

Fred Pollock, an Intel Fellow, has been appointed director of Intel Architecture Roadmap Planning. Justin Rattner has succeeded Pollock as director of M (Microprocessor Research Labs) at Intel.

Shankar Sastry has been appointed chairman of the department of EECS at UC Berkeley, effective January 1, 2000. For the past year, Dr. Sastry has been serving as director of the Information Technology Office at DARPA. He was on leave from Berkeley where he was professor of electrical engineering and computer sciences and director of the Electronic Research Laboratory.

Ravi Sethi, former senior vice president of Communications Research, Bell Labs, has been appointed president of A vaya Labs. A vaya Communications is the former EnterPrise Networks Group of Lucent Technologies.

Benjamin W. Wah is the new president of the IEEE Computer Society for 2001. Wah is a professor of electrical and computer engineering at the University of Illinois, Urbana-Champaign.

Elaine J. Weyuker, Technology Leader, AT&T Labs-Research and a CRA board member, has been named a 2000 AT&T Fellow. AT&T’s highest award for members of its technical community. Dr. Weyuker’s award was given “for seminal contributions having significant impact on testing software systems.”

Congressional Activities

By Lisa Thompson

At the end of November the 108th Congress still had not adjourned. While Senators- and Representatives-elect are put through orientation sessions in advance of the 107th Congress, the existing Congress passed its 13th continuing resolution to keep the government running while FY 2001 appropriation bills remain in limbo.

However, decisions concerning funding levels for computing research have been finalized. As reported in the November issue of CRN, the Senate added considerably to funding for the National Science Foundation, and these numbers held in the end. The final VA-HUD appropriations bill provided NSF with a $529 million increase (13.6 percent) to a total of $4.4 billion.

Nearly one-quarter of these new funds, $125 million, will go to the agency’s Information Technology Research initiative, bringing the ITR budget to $215 million. The Computer and Information Science and Engineering Directorate will see its budget grow 25 percent in FY 2001. Additionally, $45 million was provided for a new Terascale Computing System.

Elsewhere in NSF, the Biocomplexity initiative will grow by $25 million to a total of $75 million. And the new Nanoscale Science and Engineering initiative was funded at $150 million, an increase of $52.7 million over the FY 2000 estimated budget for nanoscale activities.

The 106th Congress also passed legislation (Public Law 106-313) to expand the H-1B visa program, but failed to pass comprehensive IT research authorization legislation despite the concerted efforts of CRA.

(see the November issue of CRN for reports on these bills)

There is every reason to believe that the partisan divisions that marked the 106th Congress will be even sharper in the 107th, with the Republican majority holding an even narrower margin. While progress on major policy bills will be hard to come by, congressional appropriators are far more attuned to getting their work done, however belatedly, in an acrimonious atmosphere. With both parties struggling for the hearts and minds of the citizenry, budgets for programs and agencies supported strongly on both sides, which include research programs, can thrive under such circumstances as long as appropriate pressure is brought to bear.

The Computing Research Association will continue its vigorous activities to promote support for information technology research funding at the NSF and DARPA and other agencies. The efforts of the computing research community will be crucial regardless of the atmosphere in Congress and no matter which party’s candidate occupies the White House. Please stay tuned to CRN and CRA’s Government Affairs website <http://cra.org/govaffairs> for further information on what you can do to make your voice heard in Washington.

Taubbee Surveys from Page 3

Figure 3 charts the salaries of new Ph.D.s in computer science, computer engineering, computational science, and other computing-related disciplines focuses on practical methods for having a successful and fulfilling academic career.

<table>
<thead>
<tr>
<th>Year</th>
<th>$50,000</th>
<th>$52,000</th>
<th>$54,000</th>
<th>$56,000</th>
<th>$58,000</th>
<th>$60,000</th>
<th>$62,000</th>
<th>$64,000</th>
<th>$66,000</th>
<th>$68,000</th>
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<tr>
<td>1989</td>
<td>11%</td>
<td>15%</td>
<td>21%</td>
<td>27%</td>
<td>33%</td>
<td>39%</td>
<td>45%</td>
<td>51%</td>
<td>57%</td>
<td>63%</td>
</tr>
<tr>
<td>1990</td>
<td>12%</td>
<td>16%</td>
<td>21%</td>
<td>25%</td>
<td>30%</td>
<td>35%</td>
<td>40%</td>
<td>45%</td>
<td>50%</td>
<td>55%</td>
</tr>
<tr>
<td>1991</td>
<td>13%</td>
<td>17%</td>
<td>21%</td>
<td>24%</td>
<td>28%</td>
<td>32%</td>
<td>36%</td>
<td>40%</td>
<td>44%</td>
<td>48%</td>
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<tr>
<td>1992</td>
<td>14%</td>
<td>18%</td>
<td>22%</td>
<td>25%</td>
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<td>1993</td>
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<td>23%</td>
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<td>38%</td>
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<td>46%</td>
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Figure 3: Salaries of New CSCE Ph.D.s

CRA 2001 Academic Careers and Effective Teaching Workshop
February 4-6, 2001
Key Bridge Marriott Hotel, Arlington, Virginia

CRA’s highly successful workshop for new faculty and advanced graduate students in computer science, computer engineering, computational science, and other computing-related disciplines focuses on practical methods for having a successful and fulfilling academic career.

Heard overviews from senior members of the two largest funding agencies for computing research, NSF and DARPA, on their agencies’ operations and funding programs. Learn how to write a good funding proposal in a session led by experienced NSF staff. Meet informally with senior leaders from the computing community and the CRA Board of Directors.

Complete information is available at: http://www.cra.org.

RESERVE BY JANUARY 15 FOR SPECIAL HOTEL RATES

Register Now!
Argonne National Laboratory

Department of Computer Science and Engineering

The candidate must qualify for appointment at the rank of Associate Professor or Professor with tenure rank commensurate with the qualifications of the candidate selected. A Ph.D. in Computer Science or Computer Engineering is required. Applicants should send a resume (with list of references ONLY), official graduate transcripts, and at least three current letters of recommendation to: Professor Harvey F. Silverman, Search Committee Chair, Division of Engineering, Brown University, Providence, RI 02912. Inquiries may be addressed to: Tina Trabah@brown.edu. A full consideration of credentials will be given to applications received by January 31, 2001 for full consideration.

Brown University

Division of Engineering

The Division of Engineering at Brown University announces the availability of tenure-track or tenured faculty positions in Electrical Sciences and Computer Engineering, beginning September 1, 2001. The appointments will be made at the level of Assistant or Full Professor depending on the qualifications of the candidate selected. Qualifications include a Ph.D. or equivalent degree in Electrical Engineering or Computer Engineering or Computer Science or related areas. The appointee will be expected to develop an active research program in computer engineering, Brown and be able to collaborate with existing faculty. The appointee will be expected to teach undergraduate and graduate courses in the area of specialty in Computer Engineering as well as in the core curriculum of the Division. The ability to make clear and effective presentations of scientific material is required. A Ph.D. or equivalent degree is required. Applicants must have demonstrated excellence in teaching as well as research.

Applications should be submitted in hard copy form and have at least three letters of recommendation for consideration. All material should be received no later than August 2001. All inquiries and correspondence should be sent to: Professor Bahaa E. A. Saleh, Chair, Department of Electrical and Computer Engineering, Brown University, Providence, RI 02912.

University of Pennsylvania

Applications are invited for one or more tenure-track assistant/associate professor positions in Electrical Science and Engineering, tenuring beginning in mid-August 2001. A Ph.D. in Computer Science or Computer Engineering and evidence of commitment to excellence in teaching and research are required. Interested candidates are asked to submit curriculum vitae (with list of recent publications), three letters of recommendation, and a statement of research and teaching interests. These should be addressed to: Department of Electrical and Computer Engineering, University of Pennsylvania, Haverford and Swarthmore Colleges.

Bryn Mawr College

Computer Science

Applications are invited for a tenure-track position in Computer Science. The College seeks an individual who will provide innovative and energetic leadership with strong administrative skills and a strong commitment to high education. The successful candidate must possess a Ph.D. in Computer Science, and a strong record of excellence in teaching and research. He or she should have an established record of research in areas of Computer Science, with a strong commitment to diversity of students and minority populations, and an equal opportunity affirmative action employer.

Bucknell University

Computer Science

The Department of Computer Science at Bucknell University is seeking a computational biologist with expertise in computational biology, bioinformatics, and/or structural biology to begin July 1, 2001. The successful candidate will have a Ph.D. in Computer Science or a closely related field. The successful candidate will be expected to develop an active research program and engage computational biology students through her/his teaching.

The Department of Computer Science at Bucknell University is an equal opportunity affirmative action employer and is committed to diversity in the hiring of faculty and graduate students.

Pennsylvania State University

Computer Science and Engineering

The College of Engineering invites nominations and applications for the position of Head of the Department of Computer Science and Engineering. The College seeks an individual who will provide innovative and energetic leadership with strong administrative skills and a strong commitment to high education. The successful candidate must possess a Ph.D. in Computer Science, and a strong record of excellence in teaching and research. He or she should have an established record of research in areas of Computer Science, with a strong commitment to diversity of students and minority populations, and an equal opportunity affirmative action employer.

The Department of Computer Science and Engineering has 24 close-knit, tenure-track faculty and is committed to growing with several open tenure-track positions in the near few years. The Department offers a graduate program with over 100 Master’s students and about 20 Ph.D. students. The annual research expenditures is over $20 million, with major thrusts in bioinformatics, computer architecture, computer vision and robotics, microsystems design and VLSI, mobile computing, networking, operating systems, programming languages, scientific computing, and Theory. By Fall 2000, the Department should move into a new building. Further information on the department can be found at: http://www.cse.psu.edu.

Penn State is a major research university and its recent years has ranked first in the nation among public universities in industry-sponsored research. US News and World Report consistently ranks our department of Computer Science and Engineering undergraduate and graduate programs in the top 15 of the nation. The university is located in State College, a town of about 40,000 inhabitants in central Pennsylvania. While situated in a beautiful college town with a variety of cultural and recreational activities, many major east coast cities (New York, Philadelphia, Pittsburgh, Washington DC, Boston) are in few hours driving distance.

Nominations and applications, including curriculum vitae, must be received by January 15, 2001. Applications should be submitted in hard copy form and have at least three letters of recommendation for consideration. All material should be received no later than February 1, 2001. Applications will be reviewed with the intent of filling this position by August 2001. All inquiries and correspondence should be sent to: Professor Bahaa E. A. Saleh, Chair, Department of Electrical and Computer Engineering, Brown University, Providence, RI 02912.

Penn State is an equal opportunity affirmative action employer and is committed to diversity in the hiring of faculty and graduate students.

DEPARTMENT HEAD

Computer Science and Engineering

The College of Engineering invites nominations and applications for the position of Head of the Department of Computer Science and Engineering. The College seeks an individual who will provide innovative and energetic leadership with strong administrative skills and a strong commitment to high education. The successful candidate must possess a Ph.D. in Computer Science, and a strong record of excellence in teaching and research. He or she should have an established record of research in areas of Computer Science, with a strong commitment to diversity of students and minority populations, and an equal opportunity affirmative action employer.

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COMPUTING RESEARCH NEWS January 2001

Professional Opportunities

environment for instruction and research is based
at the Regional Academic Center in Orange, California. A
cultural diversity community. Rank and salary are negotiable.
Effective date, August 1st, 2001. To apply for this position, send
a letter of application, a current vita, statement of research and teaching interests, and three letters of
The Department of Computer Science and Electrical Engineering at Butler University invites candidates for an assistant professor
to participate in the developments of a new software engineering
initiative. The Department of Computer Science and Software Engineering at Butler University offers degrees in
Computer Science and Software Engineering at both the undergraduate and graduate levels.
These letters will not be requested
addresses of three references to:
Computer Science and its programs may be
nicknamed the University of Integrated Media at Cal Poly
San Luis Obispo. The University is located in the scenic central coast. University fam-
ilies with children are encouraged to apply. The University
serves approximately 17,000 students. Cal Poly is a public institution and an Affirmative
Action/Equal Opportunity employer. Women and minorities are encouraged to apply.

PennState University Park
SCHOOL OF INFORMATION SCIENCES AND TECHNOLOGY
www.iist.psu.edu
The School of Information Sciences and Technology (IIST) at The Pennsylvania State University sponsors a number of full-time, tenor-track positions at University Park. Rank will be determined on the basis of qualifications and experience. Salary will be commensurate with credentials and experience.

Position: Assistant Professor

The School of Information Sciences and Technology at Penn State University is seeking candidates for assistant professor
positions. The School of Information Sciences and Technology seeks candidates with a background in quantitative and
qualitative research. The School is committed to excellence through cultural diversity. The successful applicant will be expected to
contribute to the School’s mission of creating and disseminating knowledge, and to enhance the diversity of the student body.

To apply, send a letter of interest, curriculum vitae, statement of research and teaching interests, and names of at least three references to:

Faculty Search Committee
Department of Computer Science
Clemson University
Clemson, S.C. 29634-0974

Central California

Colgate University
SCHOOL OF COMPUTER SCIENCE
http://www.cscolgate.edu/
Applications are invited for positions at all ranks in computer science. The School of Computer Science at Colgate University offers B.A.
and B.S. degrees in Computer Science and M.S. and Ph.D. degrees in Computer Science.

Applications should be submitted to:

inquiries should be directed to:

Faculty Search Committee
Department of Computer Science
Clemson University
Clemson, S.C. 29634-0974

Inquiries should be directed to:

Faculty Search Committee
Department of Computer Science
Carnegie Mellon University
Pittsburgh, PA 15213

Applications should be submitted to:

Faculty Search Committee
Department of Computer Science
Carnegie Mellon University
Pittsburgh, PA 15213

Chair of the Search Committee
Professor Robert N.信托

Applications will be accepted until the position is filled.

Applications should be submitted to:

Faculty Search Committee
Department of Computer Science
Clemson University
Clemson, S.C. 29634-0974

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College of William & Mary Department of Computer Science Applications for the following faculty positions are invited for one, or possibly two, tenured-track faculty positions in Computer Science. The positions are available at either the junior or senior level. A Ph.D. in Computer Science is required. Applicants must have a strong commitment to high-quality teaching and research. The Department values collaboration in both teaching and research. Strong candidates are encouraged to submit evidence of excellence in both teaching and research. We are interested in candidates who can contribute to our commitment to diversity in all aspects of our academic environment. The Department of Computer Science is an Equal Opportunity/Affirmative Action Employer.

University of Colorado Boulder Department of Computer Science The University of Colorado Boulder invites applications for a faculty position at the rank of Assistant, Associate, or Full Professor, beginning August 2001. (Ph.D. is required for the position.) The University of Colorado Boulder is one of the leading research universities in the United States and is situated in the foothills of the Rocky Mountains, between Denver and Fort Collins. The Department is one of the largest in the country, with approximately 80 tenure-track faculty members and 100 Ph.D. students. The Department is strongly committed to diversity, and the University is an Equal Opportunity/Affirmative Action Employer.

Cuyahoga Community College Department of Computer Science Faculty Position in Computer Science The Department of Computer Science invites applications for a faculty position in Computer Science, to begin in August 2001. Cuyahoga Community College is a public, two-year community college located in Cleveland, Ohio. The College offers a broad range of career and technical programs, including two-Associate-of-Science degree programs. The Department currently has 22 tenure-track faculty members and approximately 450 students. The Department is seeking an educational leader who is committed to fostering a diverse and inclusive learning environment. The successful candidate will be expected to teach a variety of courses in computer science, to develop and maintain a strong advising program, and to be involved in College and community service activities. The successful candidate will also be expected to participate in College governance and to engage in scholarly and service activities. Cuyahoga Community College is an Affirmative Action/Equal Employment Opportunity Employer.

Dartmouth College Department of Computer Science Faculty Position in Computer Science The Department of Computer Science invites applications for a faculty position to begin on September 1, 2001. The Department has 20 tenure-track faculty members and approximately 450 undergraduate students. The successful candidate will be expected to teach at the undergraduate and graduate levels, to contribute to the research activities of the Department, and to participate in the academic and College activities of the Department. The successful candidate will be expected to apply for external funding and to participate in a vigorous outreach program. Dartmouth College is committed to fostering a diverse and inclusive community of faculty, students, and staff. Dartmouth College is an Equal Employment Opportunity/Affirmative Action Employer.

Drexel University Computer Science and Information Technology The Department of Computer Science and Information Technology at Drexel University invites applications for a faculty position at the rank of Associate Professor. The Department is seeking candidates who have demonstrated excellence in research and teaching in the areas of computer science and information technology. The successful candidate will be expected to contribute to the Department's mission of excellence in education and research and to collaborate with other faculty members in the Department. The successful candidate will be expected to develop a strong research program and to contribute to the Department's academic and research activities. Drexel University is an affirmative action/equal opportunity employer. Drexel University is committed to diversity in the workplace and encourages applications from women and members of minority groups.

Florida State University Department of Computer Science The Florida State University Department of Computer Science seeks a colleague to serve as Chair of the Department of Computer Science. The Florida State University Department of Computer Science is committed to excellence in research and teaching and has a strong record of achievement in the areas of computer science and related fields. The Department is seeking a candidate who will be able to lead the Department in the next phase of its development. The successful candidate will be expected to have a strong record of achievement in research and teaching and to be committed to the promotion of diversity and inclusion. Florida State University is an Equal Opportunity/Affirmative Action Employer.

Indiana University School of Informatics The School of Informatics at Indiana University Bloomington invites applications for tenure-track faculty positions, primarily at the assistant professor rank, to begin August 2001. Indiana University Bloomington is an equal opportunity/affirmative action institution and is committed to increasing the participation of underrepresented groups. Women and members of minority groups are encouraged to apply. Indiana University is an Affirmative Action/Equal Opportunity Employer.

University of North Carolina at Chapel Hill Department of Computer Science The Department of Computer Science at the University of North Carolina at Chapel Hill invites applications for a faculty position in Computer Science. The Department is seeking candidates who have demonstrated excellence in research and teaching in the areas of computer science and related fields. The Department is committed to excellence in research and teaching and has a strong record of achievement in the areas of computer science and related fields. The successful candidate will be expected to contribute to the Department's mission of excellence in education and research and to collaborate with other faculty members in the Department. The successful candidate will be expected to develop a strong research program and to contribute to the Department's academic and research activities. The University of North Carolina at Chapel Hill is an equal opportunity employer.

University of Pennsylvania School of Arts and Sciences The School of Arts and Sciences at the University of Pennsylvania invites applications for a faculty position in Computer Science. The School of Arts and Sciences at the University of Pennsylvania is committed to excellence in research and teaching and has a strong record of achievement in the areas of computer science and related fields. The School is seeking candidates who have demonstrated excellence in research and teaching in the areas of computer science and related fields. The successful candidate will be expected to contribute to the School's mission of excellence in education and research and to collaborate with other faculty members in the School. The successful candidate will be expected to develop a strong research program and to contribute to the School's academic and research activities. The University of Pennsylvania is an equal opportunity/affirmative action employer.

University of Southern California The Department of Computer Science at the University of Southern California invites applications for a faculty position in Computer Science. The Department is seeking candidates who have demonstrated excellence in research and teaching in the areas of computer science and related fields. The Department is committed to excellence in research and teaching and has a strong record of achievement in the areas of computer science and related fields. The successful candidate will be expected to contribute to the Department's mission of excellence in education and research and to collaborate with other faculty members in the Department. The successful candidate will be expected to develop a strong research program and to contribute to the Department's academic and research activities. The University of Southern California is an equal opportunity/affirmative action employer.
College of Arts and Sciences
Department of Computer Science
Faculty Recruiting

The Florida State University Department of Computer Science invites applications for several tenure-track and non-tenure-track faculty positions at all ranks. The department is located in a city of significant growth in computer science and allied areas. In the last two years it has hired eight new faculty and the growth is continuing. New faculty will have the opportunity to help shape the department’s future.

A portfolio for tenure-track faculty positions are required to have completed a PhD in computer science, computer engineering, or a closely related field by the date of the appointment. Applicants need to demonstrate a commitment to excellence in research, teaching, and service. Applications will be accepted until the position is filled. The review of applications will begin on September 1, 2001.

The Computer Science Department strongly encourages applications from women and minorities. A portfolio for the position of Distinguished Professor of Computer Science is available at Kent State University under PER-CEPTMEDIA project sponsored by DARPA.

ESInotices January 2001

Professional Opportunities

Indiana University
Computer Science Department
Faculty Recruiting

The Indiana University Computer Science Department invites applications for tenure-track faculty positions beginning 2001-2002. A list of core courses is available on our new School of Informatics web site, which offers a B.S. degree focusing on information technology.

The department has been targeted for significant enhancement by both the State of Indiana and the Board of Regents to strengthen PhD programs in computer science. The Indiana University Computer Science Department currently consists of 21 full-time faculty, 150 undergraduate and 310 graduate students, and 300 faculty and staff. Candidates for the position of Chair of the Computer Science Department will be expected to have a strong record of research, teaching, and external funding. The positions require a PhD in Computer Science or a related field, and strong evidence of research and teaching abilities.

Applications will be considered as they are received. Further information about the university and the department can be found at http://www.cs.indiana.edu/research/tech.html, and questions may be directed to recruiting@cs.uiu.edu.

Candidates are encouraged to apply immediately. Applications will be considered as they are received.

Candidates must have a PhD in Computer Science, Computer Engineering, or a closely related field. Preference will be given to those with experience in industrial outreach and with responsibility for the near future.

For information about the university and the department, please visit our web site at www.cs.indiana.edu.

Please send a detailed CV and a list of references to:

Faculty Search Committee
Computer Science Department
Indiana University
717 E. 10th Street
Bloomington, IN 47404-7135

Indiana University is an Affirmative Action/Equal Opportunity Employer.

Kent State University
Computer Science Department
Faculty Recruiting

The Department of Computer Science stands among the first rank of departments in computer science related areas such as data mining, distributed computation, and scientific computation. The department has been targeted for significant enhancement by both the State of Ohio and Kent State University, and will be increasing its faculty and staff considerable amount in the near future.

Applications are invited for tenured or tenure-track faculty at all ranks. The department offers B.S., M.A., M.S., and Ph.D. degrees in computer science.

The Johns Hopkins University
Computer Science Department
Faculty Recruiting

The Johns Hopkins University is an Equal Opportunity Affirmative Action Employer.

The Johns Hopkins University Department of Computer Science is seeking applications for one or more tenure-track positions at all ranks. We have particular interest in candidates with research and teaching interests in artificial intelligence, computer networks, computer security, computer systems, computer vision, databases, digital libraries, distributed and parallel computing, efficient algorithms, image processing, information retrieval, intelligent tutoring systems, natural language processing, parallel and distributed computing, and social networks. The Department of Computer Science is part of the Krieger School of Arts and Sciences and is housed in the new New Engineering Building on the Homewood campus.

Applications for the position of Chair of the Computer Science Department will be expected to have a strong record of research, teaching, and external funding. The positions require a PhD in Computer Science or a related field, and strong evidence of research and teaching abilities.

Applications will be considered as they are received. Further information about the university and the department can be found at http://www.cs.jhu.edu/research/tech.html, and questions may be sent to search@cs.jhu.edu. To ensure full consideration, complete electronic applications should be received by February 1, 2001.

A portfolio for the position of Distinguished Professor of Computer Science is available at Kent State University under PER-CEPTMEDIA project sponsored by DARPA.

The Johns Hopkins University is an Equal Opportunity Affirmative Action Employer.

The Johns Hopkins University Department of Computer Science stands among the first rank of departments in computer science related areas such as data mining, distributed computation, and scientific computation. The department has been targeted for significant enhancement by both the State of Ohio and Kent State University, and will be increasing its faculty and staff considerable amount in the near future.

Applications are invited for tenured or tenure-track faculty at all ranks. The department offers B.S., M.A., M.S., and Ph.D. degrees in computer science.

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The Johns Hopkins University is an Equal Opportunity Affirmative Action Employer.
networking, theory, compilers, digital or multimedia systems, and computer architecture. Applicants must have a proven record of innovative research and excellent writing and teaching skills. Lehigh University has announced a $75 million initiative to launch a new School of Science and Technology, which will include computer science as a focal area. Researchers will be expected to work with graduate students, postdoctoral fellows, and undergraduate students. Applications are due by December 15, 2001.

**Michigan Technological University**

**Computer Science and Engineering (CSE)**

Two tenure track positions in Computer Science are available for September 1, 2001, at the rank of Assistant or Associate Professor, designated as one of four Michigan research universities. Loyola University Chicago is sensitive to diversity in the search process. Loyola University Chicago is an Equal Opportunity Employer. Required Qualifications: An earned Ph.D. degree in Computer Science or equivalent discipline. Loyola University Chicago offers a B.S., M.S., and Ph.D. in Computer Science in several areas of computer science. The Chair of the Department of Computer Science is responsible for the overall direction and planning of the department, including the development of a strategic plan and the implementation of initiatives to achieve the goals of the department. The position offers a B.S. degree in Electrical Engineering and Computer Science.

**Middle Tennessee State University**

**Computer Science**

Tenure-track positions in Computer Science are currently open at Middle Tennessee State University. Applicants are encouraged to apply. The successful candidates will have the opportunity to teach under both graduate and undergraduate programs, and develop externally funded research projects. Salary will be commensurate with qualifications and experience. The Department of Computer Science at LSU offers the B.S., M.S. (Systems Science), and Ph.D. degrees with approximately 250, 60, and 45 students, respectively. The University also offers the B.A. degree, which is in demand and has nearly 2,000 students. The University offers the B.S. (Computer Science) M.S. and Ph.D. programs in several areas of computer science. Loyola University Chicago is an Equal Opportunity Employer.

**Minnesota State University, Mankato**

**Computer and Information Systems Department**

CS/CIS, multiple tenure-track positions. The computer and Information Systems Department invites applications for faculty positions at all levels. The Computer and Information Systems Department is a high priority of the College of Business Administration. Loyola University Chicago offers a B.S. degree in Electrical Engineering and Computer Science.

**Molandare University**

**School of Chemistry and Biotechnology**

A Review of applications will begin on January 1, 2001, and will continue until positions are filled. Loyola University Chicago offers a B.S. degree in Electrical Engineering and Computer Science.

**University of Louisiana at Lafayette**

**College of Sciences**

The Department of Computer Science at LSU offers the B.S., M.S. (Systems Science), and Ph.D. degrees with approximately 250, 60, and 45 students, respectively. The University also offers the B.A. degree, which is in demand and has nearly 2,000 students. The University offers the B.S. (Computer Science) M.S. and Ph.D. programs in several areas of computer science. Loyola University Chicago offers a B.S. degree in Electrical Engineering and Computer Science.
New Mexico State University

Computing Research News January 2001

NORTHEASTERN UNIVERSITY

COMPUTING RESEARCH NEWS January 2001

Two Tenure-Track Assistant Professors

Montclair State University

The new position is open to

New Jersey Institute of Technology

The position is open to

NORTHEASTERN UNIVERSITY

COLLEGE OF COMPUTER SCIENCE

Boston, Massachusetts

Trustee Professorship in Computer Science

The College of Computer Science invites applications and nominations for the position of Trustee Professorship in Computer Science.

NORTHEASTERN UNIVERSITY

Faculty Positions

The Department of Computer Science at Northeastern University is seeking outstanding candidates to fill two tenure-track positions in its Computer Science Department. One position is in the area of Computer Science and Technology, and the other is in the area of Computer Science and Computer Engineering. These positions will be filled as full-time tenured or tenure-track appointments, starting in Fall 2001.

Applications are invited from qualified candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the Northeastern University community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
Northeastern University
160 Forsyth Street
Boston, MA 02115

Ohio State University

The Department of Computer Science at Ohio State University is seeking outstanding candidates to fill an Assistant Professor position in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the Ohio State University community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
Ohio State University
1101 W. 12th Ave.
Columbus, OH 43210

Northwestern University

Department of Computer Science

The Department of Computer Science at Northwestern University is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the Northwestern University community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
Northwestern University
2145 Sheridan Road
Evanston, IL 60208

North Carolina State University

The Department of Computer Science at North Carolina State University is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the North Carolina State University community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
North Carolina State University
Raleigh, NC 27695-8206

University of California, Berkeley

The Department of Computer Science at the University of California, Berkeley, is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of California, Berkeley community.

 Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of California, Berkeley
Berkeley, CA 94720

University of Illinois at Urbana-Champaign

The Department of Computer Science at the University of Illinois at Urbana-Champaign is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Illinois at Urbana-Champaign community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Illinois at Urbana-Champaign
Urbana, IL 61801

University of Maryland

The Department of Computer Science at the University of Maryland is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Maryland community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Maryland
College Park, MD 20742

University of Michigan

The Department of Computer Science at the University of Michigan is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Michigan community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Michigan
Ann Arbor, MI 48109

University of Southern California

The Department of Computer Science at the University of Southern California is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Southern California community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Southern California
Los Angeles, CA 90089

University of Texas at Austin

The Department of Computer Science at the University of Texas at Austin is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Texas at Austin community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Texas at Austin
Austin, TX 78712

University of Washington

The Department of Computer Science at the University of Washington is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Washington community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Washington
Seattle, WA 98195

University of Wisconsin-Madison

The Department of Computer Science at the University of Wisconsin-Madison is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the University of Wisconsin-Madison community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
University of Wisconsin-Madison
Madison, WI 53706

Virginia Commonwealth University

The Department of Computer Science at Virginia Commonwealth University is seeking outstanding candidates to fill two tenure-track positions in the area of Computer Science.

Applications are invited from candidates who have demonstrated excellence in both research and teaching. The ideal candidates will have a strong record of scholarship, an active research program, and a commitment to excellence in teaching. Preference will be given to candidates who can contribute to the diversity of the Virginia Commonwealth University community.

Interested candidates should submit a letter of application, curriculum vitae, a detailed research statement, a teaching statement, and at least three letters of recommendation to:

Department of Computer Science
Virginia Commonwealth University
Richmond, VA 23284
The Department of Computer Science and Engineering invites applications for at least tenured or tenure-track positions. Areas of research and teaching interest include theoretical computer science, algorithms and data structures, computer architecture and computer organization, computer networking and communication, databases and data management, information assurance, artificial intelligence, and software engineering. Applications are invited from qualified candidates with Ph.D. degrees in Computer Science or related fields. Applicants should have a strong commitment to excellence in research and teaching. The department is actively recruiting in the areas of software engineering, computer architecture, computer networking, and information assurance.

Applications should be submitted by January 15, 2001, but will be accepted until the position is filled. The Ohio State University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. Applications should include a curriculum vitae, statement of research and teaching interests, and three letters of reference. Applications should be sent to Chair, Faculty Search Committee, Computer Science Department, The Ohio State University, Columbus, OH 43210-1277.
Simon Fraser University

A position is available in the area of software engineering. Applicants should have a strong record of research activity and demonstrate the ability to generate significant external funding. Applicants should have a Ph.D. degree in Computer Science or a related discipline. Applicants should submit their curriculum vitae, a statement of research and teaching interests, and the names of at least three people who can comment on the candidate's professional qualifications. A letter of application should be sent to:

Chair, Faculty Search Committee
Department of Computer Science
Simon Fraser University
8888 University Drive
Burnaby, British Columbia, V5A 1S6
or dir-sec@cs.sfu.ca

For more information, see:
http://www.cs.sfu.ca

Sim Chat, Faculty Search Committee
The Pennsylvania State University
Department of Computer Science
Purdue University invites applications to fill an Assistant Professorship in Computer Science. The department is conducting a national search for this position and will consider candidates at all levels. The initial appointment will be for a period of five years, renewable based on the criteria established by the department. The appointment is available at:

http://www.cs.purdue.edu

To apply, send your curriculum vitae, evidence of research productivity (including selected papers), a statement of teaching interests, a vita, and the names of three people who can comment on your qualifications to:

Chair, Faculty Search Committee
Department of Computer Science
Princeton University
Princeton, NJ 08544

Applications are invited for the above position. In addition to excellent independent research program, as well as teaching ability. A Ph.D. or equivalent is required. Applicants should have a strong record of research activity and demonstrate the ability to generate significant external funding. Applications are encouraged to apply. A letter of application should be sent to:

Chair, Faculty Search Committee
Department of Computer Science
Princeton University
Princeton, NJ 08544

Applications are being accepted now and will be considered until the position is filled. Interested inquiries may be sent to personalities@purdu.edu

Purdue University is an Equal Opportunity/Affirmative Action Employer. Pursuant to the State of Indiana’s Civil Rights Act, all applicants and employees are required to be eligible to work in the United States. Antidiscrimination and Affirmative Action Policies are available at:

http://www.purdue.edu

Advanced Systems Institute.

Applications are invited to fill a rank of assistant professor or assistant professor with tenure. Please send resumes to:

Dr. D. Neuhoff
Director, Faculty Search Committee
Department of Computer Science
Portland State University
P.O. Box 751
Portland, OR 97207-0751

Applications are invited for the above position. In addition to excellent independent research program, as well as teaching ability. A Ph.D. or equivalent is required. Applicants should have a strong record of research activity and demonstrate the ability to generate significant external funding. Applications are encouraged to apply. A letter of application should be sent to:

Chair, Faculty Search Committee
Department of Computer Science
Portland State University
P.O. Box 751
Portland, OR 97207-0751

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Advanced Systems Institute.

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http://www.purdue.edu

Advanced Systems Institute.
Rensselaer Polytechnic Institute
Department of Computer Science

Rensselaer Polytechnic Institute invites candidates for tenured and tenure-track positions at all levels in the areas of image, computer vision, pattern recognition, artificial intelligence, and computational logic. Excellent opportunities for interdisciplinary collaboration exist with ongoing projects in the areas of digital signal and image processing and communications, computer networks, control and robotics, and mathematics. The department participates in two NSF Engineering Research Centers, one of which is the recently announced Center of Subsurface Sensing and Imaging Systems (COSIS). The department has special needs in computer architecture, computer networking, computer security, software engineering, and planned research, and a statement describing teaching philosophy to New Staff Committee
Department of Computer Science
Rensselaer Polytechnic Institute
Troy, NY 12180-3590

Rensselaer Polytechnic Institute invites applications for the Department Chair. Applicants should have a strong record in research and a strong interest in the area of computational science and computational engineering. The Department Chair is appointed by the Provost and is responsible for the day-to-day management of the Department. Applicants should have a demonstrated commitment to the enhancement of diversity within the Department and the College. The chair is expected to have a strong interest in teaching, mentoring, and administration. Applicants should have a Ph.D. in Computer Science or a closely related discipline. Applicants are requested to send a hard copy of a curriculum vitae, including a list of publications, a statement describing research interests and planned research, and a statement describing teaching philosophy to:
New Staff Committee
Department of Computer Science
Rensselaer Polytechnic Institute
Troy, NY 12180-3590

Rensselaer Polytechnic Institute Department of Mathematical Sciences Tenured and Tenure-Track Positions

Applicants are invited for one or more tenured and tenure-track positions in applied mathematics, to begin in August 2001. The Department offers B.S., M.S., and Ph.D. degrees in mathematics. The M.S. program offers teaching experience at the graduate level and research experience in an area of interest to the student. Applicants should have a Ph.D. in Mathematics or a closely related discipline and a strong research potential. Candidates should have a demonstrated ability to communicate effectively with undergraduate and graduate students. Applicants should have a strong interest in research and teaching. The Department of Mathematical Sciences offers a range of courses in the areas of pure and applied mathematics, including numerical analysis, mathematical biology, financial mathematics, and operations research. Applicants should have a strong interest in research and teaching. The Department of Mathematical Sciences offers a range of courses in the areas of pure and applied mathematics, including numerical analysis, mathematical biology, financial mathematics, and operations research. Applicants should have a strong interest in research and teaching.

Rensselaer Polytechnic Institute Department of Electrical, Computer, and Systems Engineering Faculty Search Committee
Department of Electrical, Computer, and Systems Engineering
Rensselaer Polytechnic Institute
Troy, NY 12180-3590

Applications will be evaluated beginning January 15, 2001, and will continue until a candidate is selected.

Rensselaer is an equal opportunity affirmative action employer and strongly encourages applications from women and underrepresented minorities.

Rensselaer Polytechnic Institute
Department of Electrical, Computer, and Systems Engineering
Troy, NY 12180-3590

Rutgers University
Department of Computer Science
Faculty Positions

The University of California, Riverside invites applications for tenure-track or tenured faculty positions in the Department of Computer Science, to begin in August 2001. Applications are invited for full-time tenure-track positions. Successful candidates at the level of assistant professor and above are considered for full-time, tenure-track positions. The department offers B.S., M.S., and Ph.D. degrees in Computer Science and related areas. The university is an equal opportunity employer. Rutgers University Department of Computer Science
Faculty Search Committee
Chair, Faculty Search Committee
Department of Computer Science
Rutgers University
136 Frelinghuysen Road Piscataway, NJ 08854-8019

Job Location: New Brunswick, NJ 08903-8019

Rutgers University is an Affirmative Action/Equal Opportunity Employer.

Rochester Institute of Technology

Computer Science

Applications are invited for part-time tenure track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are accepted for full-time tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science.

Rochester Institute of Technology

Computer Science

Applications are invited for part-time tenure track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science.

Rochester Institute of Technology

Computer Science

Applications are invited for part-time tenure track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science.

Rochester Institute of Technology

Computer Science

Applications are invited for part-time tenure track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science. Applications are invited for tenure-track or full-time faculty positions as an M.S. and a Ph.D. accredited BS in Computer Science.
University of Massachusetts Lowell
Faculty Positions
Department of Computer Science

The Department of Computer Science at UMass Lowell seeks candidates for a number of faculty appointments, with exceptional potential to expand our suite of research programs. We invite applications for several tenure-track faculty positions, to start in January or September 2001, from applicants with specialties in traditional or innovative areas of computer science. We anticipate hiring at all levels in the academic ladder and consider candidates at all levels.

Our campus is located 35 miles northwest of Boston in the state's high-tech corridor and is considered the most technology-oriented of the five UMass campuses. The CSE department has 18 full-time faculty members and over 300 undergraduate and over 200 graduate students in the master's and doctoral programs. Our research specialties include human-computer interaction and virtual environments, computer graphics and visualization, human-computer interaction, computer networking, computer systems, databases, networks, distributed systems, multimedia, multimedia applications, artificial intelligence, computer vision, computer architecture, embedded systems, and embedded software. The department offers B.S., Master's and Ph.D. degrees in Computer Science.

We are seeking candidates who will contribute to the intellectual life of the department, the university, and the region by establishing active research groups, teaching core and elective computer science courses, and engaging and establishing professional connections with the aims of the thousands of thriving information technology companies in the region.

A Ph.D. in computer science or a closely related discipline is required at the time of application. Please send a letter describing your research interests, curriculum vitae, a list of your publications, and the names of three references. All materials should be submitted electronically to:

Dr. Thomas M. Cottel, Head
Department of Computer Science
University of Massachusetts Lowell
One University Avenue
Lowell, MA 01854-3398

tom@cs.uml.edu

Review of applications will begin immediately and will continue until the positions are filled. The university is an equal opportunity, affirmative action employer and encourages applications from women and minorities.

Texas Tech University
Computer Science Department

The College of Engineering at Texas Tech University is committed to being a nationally recognized program in the computing field. We invite applications for several positions at all levels to begin employment in the fall of 2001, with the possibility of review beginning applications on January 15, 2001. Priority will be given to applications received in any of the following areas of interest: computer science, computer engineering, and software engineering. As a result of its size and central location, the College of Engineering at Texas Tech University is in a unique position to offer a wide range of professional, industrial, and educational opportunities. The College of Engineering offers graduate programs in computer science, computer engineering, and software engineering. The program in computer science is one of the fastest-developing departments in the college, with more than 350 undergraduate and 60 graduate students in computer science courses. The program offers specialties in computer science, computer engineering, and software engineering. The college is located in Lubbock, Texas, which is an attractive and affordable area.

Candidates should hold a Ph.D. in computer science or a closely related field. A Ph.D. in computer science is required for all assistant professor positions, and a Ph.D. in computer science or a closely related field is required for all other positions. Applicants should send a letter describing research interests, curriculum vitae, a list of publications, and the names of three references. All materials should be submitted electronically to:

Dr. Doug E. Dower
Department of Computer Science
Texas Tech University
P.O. Box 4044
Lubbock, TX 79409-4044
dower@cs.ttu.edu

Applications will be reviewed as they are received, until the position is filled. The university is an equal opportunity/affirmative action employer and encourages applications from women and minorities.
The University of Utah School of Computing Tenure Track Faculty Positions

The University of Utah School of Computing seeks applicants for tenure-track faculty positions at all ranks. From its original concentration on computer graphics, Utah has grown to be a research leader in a wide range of research areas, including scientific computing, visualization, robotics, artificial intelligence, natural language processing, and computer science and engineering. We are currently involved in interdisciplinary research in the areas of databases, computational biology, bioinformatics, and cyberinfrastructure. We have well-established research partnerships with the College of Agricultural and Life Sciences and the College of Engineering.

Applicants are invited to apply for tenure-track faculty positions at all ranks. From its original concentration on computer graphics, Utah has grown to be a research leader in a wide range of research areas, including scientific computing, visualization, robotics, artificial intelligence, natural language processing, and computer science and engineering. We are currently involved in interdisciplinary research in the areas of databases, computational biology, bioinformatics, and cyberinfrastructure. We have well-established research partnerships with the College of Agricultural and Life Sciences and the College of Engineering.

Applicants are invited to apply for tenure-track faculty positions at all ranks. We offer a competitive salary, a strong commitment to excellence in teaching, and a demonstrated strong commitment to excellence in research. Possible research areas include algorithm design and analysis, computer systems, computer architecture, and software engineering.

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Applications are invited for tenure-track faculty positions at all ranks. We offer a competitive salary, a strong commitment to excellence in teaching, and a demonstrated strong commitment to excellence in research. Possible research areas include algorithm design and analysis, computer systems, computer architecture, and software engineering.
systems, and computational biology.

A postdoctoral position is available immediately to study the role of the cell cycle and the maintenance of genome stability in mammalian cells. The position involves cell biological techniques and the use of the mammalian cell line. Applications are welcome from all qualified candidates. Please send your curriculum vitae and the names of three references to: Dr. Robert A. Weinberg, Laboratory of Cell Biology, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892.

Chair, Computer Science Department

The Department of Computer Science at the University of California, San Diego is a world-renowned academic center and a leader in developing external funding sources and institutional priorities. The Department seeks to raise the bar of excellence in all areas.

The Department of Computer Science at the University of California, San Diego, seeks an experienced and visionary leader to serve as the chair of the department. The chair will serve as a key member of the College of Engineering and Computing's senior leadership team and will be responsible for strategically planning and managing the department's academic, research, and service activities. The chair will have a significant role in shaping the direction of the department and the College and will work closely with the dean and other administrators to ensure that the College is well positioned to achieve its strategic goals.

The successful candidate will have a strong academic record and will demonstrate a commitment to excellence in research and education. They will possess a vision for the future of computing, including emerging fields such as artificial intelligence, machine learning, and data science. The candidate will be an effective communicator and collaborator, able to work closely with faculty, students, and industry partners. They will also be able to identify and pursue new funding opportunities and build partnerships with other departments and institutions.

The chair will be expected to lead and manage the department's faculty, staff, and administrative teams. They will be responsible for recruiting and retaining top talent, fostering a diverse and inclusive research environment, and ensuring the department's financial health. The chair will also be responsible for overseeing the department's operations, including budgeting, facilities, and technology.

The University of California, San Diego, is committed to equity, diversity, and inclusion in all its programs, and seeks candidates with a strong commitment to these values. The University values diversity among its faculty and encourages applications from women, members of underrepresented groups, and individuals with demonstrated expertise in computing and technology.

Interested applicants should submit a letter of application, a curriculum vitae, and the names and contact information of three references to the Search Committee Chair, Computer Science Department, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92037. Applications will be accepted until the position is filled. Letters of reference must be submitted electronically to: csechair@ucsd.edu.

The University of California, San Diego, is an affirmative-action/equal-opportunity employer. A background check will be required for the final candidate. The University of California prohibits smoking on any University property (including tobacco products).
University of Delaware
Department of Computer Science
A fully accredited Computer Science Department invites applications for a tenure-track position at the Assistant Professor to begin fall 2001. Sound scholarship and teaching are expected of all candidates. The successful candidate will contribute to undergraduate and graduate education. The Department of Computer Science is committed to diversity in its faculty, students, and staff. Applications should be submitted to: Chairman, Search Committee, Department of Computer Science, University of Delaware, Newark, DE 19716, or email to: csfacsch@cis.udel.edu (pdf please). The search committee will start reviewing applications on or before January 15, 2001. Women and minorities are encouraged to apply. Email addresses and names of references are encouraged to be included.

University of Houston
Department of Computer Science
Applications are invited for a tenure-track position at the assistant professor level to begin Fall 2001. To view the position announcement, see: http://www.cs.uh.edu, or email to: johnson@cs.uh.edu (email) 713-743-3343 (voice), or Houston, TX 77204-3475 USA Mail Stop CSC-3475 Department of Computer Science Faculty Search Committee

University of Louisiana at Lafayette
Computer Science Department
http://www.louisiana.cacs.edu
One of the University’s first priorities is to attract a tenure track position as the assistant professor level to be available for the Fall semester, 2001. Applications are invited for a tenure track position at the assistant professor level. The University of Louisiana at Lafayette is an Equal Opportunity/Affirmative Action Employer.

University of Maryland
Department of Computer Science
The University of Maryland is an Equal Opportunity/ Affirmative Action Employer, and encourages minority candidates to apply.

University of Virginia
Department of Computer Science
The University of Virginia is an equal opportunity and affirmative action employer. Applications, resumes, a list of publications and funding, and the names of at least three references (five for positions at the assistant professor level) should be sent to: University of Virginia Department of Computer Science P.O. Box 4171 University of Virginia Charlottesville, VA 22903-4171 (304) 924-2768 (office) 434-924-5709 (fax) The search committee will begin reviewing applications at least four names of references with (3) emphasis on research (2) emphasis on teaching. At the time they apply, candidates must request their references to access. Written recommendations. Faculty to do so will delay the application process. The search will continue until the position is filled.

University of Washington
Department of Computer Science
The University of Washington is an Affirmative Action/Equal Opportunity Employer. A letter of application with curriculum vita, research statement, and names and addresses of three references are requested.

University of Wisconsin
Department of Computer Science
Applications are invited for tenure-track positions at all levels. Candidate responsibilities include developing and teaching courses, conducting original research, and participating in service to the University. Research interests include computer science, particularly areas related to AI, computer vision, graphics, and scientific computing.

Universities take significant steps to meet the demands and opportunities of the 21st century. For instance, the university is building strong research and education programs in areas including information systems, bioinformatics, nanotechnology, networked systems, intelligent agents, agent-based computing, parallel algorithms, complexity theory, data security, cryptography, geometric model- ing, databases, computer graphics, performance modeling and human-centered computing systems. These and many other efforts are funded by NSF, ARO, ONR, DARPA, MITRE and several private industrial sources. The selected candidate will provide leadership to strengthen this research area, enjoy collaboration with highly qualified and motivated faculty members, report to the department and in the School of Engineering for the university of nationally and international visibility in research and education programs. (Search WA 241)

Please and applications and nominations to:
Professor T. Cing Department of Computer Science & Engineering Unit 355 University of Connecticut 161 Auditorium Road Storrs, CT (860) 486-3155 e-mail: tc@lamar.unc.edu phone: (860) 486-3784.

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COMPUTING RESEARCH NEWS
Professional Opportunities

University of North Carolina at Chapel Hill
Department of Computer and Information Science
Olson/Othmer Endowed Chair in Software Engineering
Applications for an Olson/Othmer Endowed Chair in Software Engineering are invited. The successful candidate will have demonstrated outstanding research and teaching, and will have a Ph.D. degree in Computer Science. The University of North Carolina at Chapel Hill is committed to increasing diversity among its faculty, and encourages applications from women and minority candidates. The appointment is anticipated to be at the assistant professor level, with a strong potential for promotion to associate professor within two years. The evaluation of applications will start on or before February 15, 2001. Further information about the position can be obtained by contacting Professor Kevin Jeffay, Chair, Faculty Search Committee, Department of Computer and Information Science, Box 90327, School of Information and Library Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3275. Women and minority candidates are particularly encouraged to apply.

University of Oregon
Department of Computer and Information Science
Faculty Position
The Department of Computer and Information Science has multiple tenure-track faculty positions open for Fall 2001. Applicants must have a Ph.D. in computer science or a closely related discipline with a strong research and teaching record. The University of Oregon is committed to increasing its diversity and welcomes applications from women and minority candidates. Further information about the department, the position, and the University of Oregon can be obtained by contacting Professor Kathleen Fisher, Department Chair, Dept. of Computer and Information Science, University of Oregon, Eugene, OR 97403-1202 email kathyr@uoregon.edu. Review of applications will begin on January 15, 2001, and continue until all positions are filled.

University of Pennsylvania
Department of Computer and Information Science
The department of Computer and Information Science at the University of Pennsylvania invites applications for a faculty position at the level of assistant professor, associate professor, or full professor. The department, which includes both the Computing and Software Systems and Networks, and the Information Science and Management (ISM) programs, is committed to an interdisciplinary faculty on both the graduate and undergraduate levels. The department is committed to excellence in teaching, research, and service, with a strong emphasis on interdisciplinary education and research. Applications are encouraged from applicants of all backgrounds, including women, minorities, and those with disabilities. The University of Pennsylvania invites applications from individuals who have demonstrated a commitment to diversity in the classroom and in research. Applications should be complete by January 15, 2001 and should include a curriculum vitae, a statement of teaching and research interests, and three letters of reference. Applications will be considered until the position is filled. The deadline for applications is February 1, 2001. Applications may be sent to: Professor Roseann O'Connor, Chair, Computer and Information Science Faculty Search Committee, Department of Computer and Information Science, University of Pennsylvania, Philadelphia, PA 19104-6315. Women and minority candidates are encouraged to apply. The University of Pennsylvania is an equal opportunity/affirmative action employer.

University of Pennsylvania
Department of Computer and Information Science
Recruitment Coordinator
The Department of Computer and Information Science (CIS) at the University of Pennsylvania invites applications for the position of Recruitment Coordinator. The recruitment coordinator will support the educational program in both undergraduate and graduate studies. The coordinator will be responsible for developing and implementing recruitment strategies, recruiting strategies, and coordinating recruitment activities. The coordinator will also be expected to work closely with the faculty, staff, and students in order to promote the educational program at the University. Applicants must have a Bachelor’s degree in Computer Science, Information Systems, or a related field, and at least two years of experience in a similar role. The position is located in Philadelphia, Pennsylvania and the starting date is negotiable. Applications should be submitted by January 15, 2001. For more information, please contact the Department of Computer and Information Science at (215) 898-4100 or email: mgeary@cis.upenn.edu. Women and minority candidates are encouraged to apply. The University of Pennsylvania is an equal opportunity, affirmative action employer.

University of Pennsylvania
Department of Computer and Information Science
Assistant Professor
Applications are invited for an assistant professor position in the area of software engineering. The successful candidate will have a Ph.D. in Computer Science, Computer Engineering, or a closely related field, and should have demonstrated excellence in research and teaching. The position is located in Philadelphia, Pennsylvania and the starting date is negotiable. Applications should be submitted by January 15, 2001. For more information, please contact the Department of Computer and Information Science at (215) 898-4100 or email: mgeary@cis.upenn.edu. Women and minority candidates are encouraged to apply. The University of Pennsylvania is an equal opportunity, affirmative action employer.

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University of Southern California Department of Electrical Engineering Systems Engineering invites outstanding candidates at all levels to apply for a tenure-track position in computer and information architecture. Specific areas of interest include high-performance computing; computer system architecture; network architecture; embedded, real-time, and mobile computing systems; and computer systems and networks.

Applications must include a detailed curriculum vitae, a description of research and teaching interests, and the names of at least four professional references. The applicants are responsible for soliciting those references and for sending them to be sent directly to the faculty search coordinator.

Chair, Search Committee Coordinator
Dr. Timothy Pirolli, University of Southern California
770 McCloy Avenue ECE 200
Los Angeles, CA 90089-2560
USC is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are encouraged.

University of Southern California Computer Science

The University of Southern California Computer Science (http://www.usc.edu) invites applications for tenure-track positions from outstanding candidates in areas include Networking, Scalable Distributed and Scientific Computing, Software Engineering, Computing Theory with Applications; Artificial Intelligence and machine learning; Computer Graphics and Integrated Media. Exceptional candidates in other areas may also be considered.

Please send a comprehensive resume, a list of references and a statement of goals to: Paula King
Computer Science
USC S.A.I. 300
Los Angeles, CA 90089-0781
or Email to: paulina@pollux.usc.edu
USC is an Equal Opportunity/ Affirmative Action Employer and encourages applications from women and minorities.

University of Texas at Arlington

Computer Science and Engineering Department

Multiple tenure-track faculty positions

The University of Texas at Arlington (UTA), Computer Science and Engineering (CS) Department - CSE@UTA invites applications for multiple tenure-track faculty positions at assistant or associate professor levels. Applicants with expertise in the following areas are preferred: software engineering, systems including architecture, distributed and high-performance computing networks and telecommunication systems; database and data mining; cyber security. UTA, part of the University of Texas System, is located in the heart of the Dallas/Fort Worth Metroplex, one of the nation's largest high-technology and industrial base and offers excellent opportunities for industrial and academic growth.

Chair, CSE@UTA invites applications for multiple tenure-track faculty positions at assistant or associate professor levels. A complete list of faculty positions at assistant or associate professor levels. Applications from women and minority candidates are encouraged.

University of Southern California Computer Science

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Chair, CSE@UTA invites applications for multiple tenure-track faculty positions at assistant or associate professor levels. Applications from women and minority candidates are encouraged.
University of Vermont

Department of Computer Science

A solicitation for two recent faculty members in the Department of Computer Science at the University of Vermont, for positions starting in the fall of 2001. The positions are at the Assistant Professor rank. Liberal arts collegesBest known as an Equal Opportunity/Affirmative Action employer and a U.S. Government contractor whose employeeshave been afforded the rights of Title VI of the Civil Rights Act of 1964, the Equal Pay Act of 1963, the Age Discrimination in Employment Act of 1967, the Rehabilitation Act of 1973, the Uniformed Services Employment and Reemployment Rights Act of 1994, the Americans with Disabilities Act of 1990, and Section 504 of the Rehabilitation Act of 1973.

The University of Vermont strongly encourages applications from women and minority candidates. Women and minority candidates are especially invited to apply. The University of Vermont is an equal opportunity employer.

The deadline for applications is January 31, 2001. Applicants who arrive and we encourage early applica-
tions. We will consider applications until the position is filled. We
can be faxed to 802-656-2609. All other inquiries can be sent to:
Chair, Faculty Recruitment Coordinator for Computer Sciences,
Box 1679 Station B, University of Vermont, Burlington, VT 05405.

University of Wisconsin-Madison

Computer Science Program

A solicitation for two assistant professors in the Computer Science Program at the University of Wisconsin-Madison, for positions starting in September 2001. We are seeking candidates with strong research records and a commitment to teaching. We are particularly interested in candidates whose research focuses on problems in developing and maintaining large software systems: software architecture, software engineering, reverse engineering, software evolution. The Computer Science Program at the University of Wisconsin-Madison has a strong research record and a commitment to diversity within its community. The University especially welcomes applications from women and minority candidates. Women and minority candidates are especially invited to apply. The University of Wisconsin-Madison is an equal opportunity employer.

The deadline for applications is January 31, 2001. Applicants who arrive and we encourage early applica-
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Chair, Faculty Recruitment Coordinator for Computer Sciences,
Box 1679 Station B, University of Vermont, Burlington, VT 05405.

University of Saskatchewan

Department of Computer Science

The University of Saskatchewan invites applications at the Assistant Professor rank in the Department of Computer Science, subject to the needs of the Department. We invite applications from qualified candidates to fill several tenure-track Assistant Professor positions. We are especially interested in strong candidates at all levels and in all areas of Computer Science.

The University of Saskatchewan is an equal opportunity employer.

The deadline for applications is January 31, 2001. Applicants who arrive and we encourage early applica-
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can be faxed to 802-656-2609. All other inquiries can be sent to:
Chair, Faculty Recruitment Coordinator for Computer Sciences,
Box 1679 Station B, University of Vermont, Burlington, VT 05405.

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Chair, Faculty Recruitment Coordinator for Computer Sciences,
Box 1679 Station B, University of Vermont, Burlington, VT 05405.
Review of applications will begin January 1, 2001, and continue until the position is filled. Women, minorities, and people with disabilities desiring accommodations in the application process should notify Dr. Bouguettaya on 703.538.8403 or call TTY: 1.800.828.1120.

Computer Science

University of Washington

660 M. Cliffray Drive, N
Seattle, WA 98195

Applicants should send a curriculum vitae, a 1-page statement of professional plans and goals, and at least three letters of reference to:


Washington State University

School of Electrical Engineering and Computer Science

Looking for a career in a research environ-

January 2001

The School of Electrical Engineering and

Computer Science at Washington State University is offering an open position in Electrical Engineering or a related discipline. Candidates must hold a Ph.D. degree in computer science, computer networking, electrical engineering, or a related discipline. The School of Electrical Engineering and Computer Science (EECS) has seven positions available.

We are particularly interested in candidates with interests in Software Engineering and Internet Computing. Consideration will be given to strong candidates in the fields of databases, electronic commerce, multimedia, and algorithms. The current annual salary is $35,000 per year.

Applicants should have a Ph.D. in computer science or a closely related field. Applicants should send a curriculum vitae, a 1-page statement of professional plans and goals, and contact information for three references.

E. Mohsen Bouguettaya, Chair

Faculty Search Committee

Department of Computer Science

5045 N. 49th Street
Vancouver, WA 98685

CRA board member Sid Karin (r) introduces CRA's Digital Government Fellow, Geoffrey Voelker, who addressed a plenary session at the SC 2000 Conference in Dallas, Texas.

Computer Science (EECS) is the largest of

Computer Science (EECS) invites applications from experienced faculty members in the areas of computer science, software engineering, computer engineering, electrical engineering, or a related discipline. The School of Computing at UC San Diego is seeking candidates in various areas and for more details about WSU and the open positions.

Washington State University

School of Electrical Engineering and Computer Science

Looking for a career in a research environ-

January 2001

The School of Electrical Engineering and

Computer Science at Washington State University is offering an open position in Electrical Engineering or a related discipline. Candidates must hold a Ph.D. degree in computer science, computer networking, electrical engineering, or a related discipline. The School of Electrical Engineering and Computer Science (EECS) has six positions available for several positions to be filled in Computer Science. The school is interested in all areas, especially in systems research. Particular areas of interest include database management, software engineering, networking and distributed systems, and internet technologies. Outstanding candidates in other areas are encouraged to apply.

Maximum consideration will be given to applications received by January 10, 2001. A significantly expanded pool of exceptional candidates will be considered.

Applications are solicited from individuals who are interested in research and teaching interests, a curriculum vitae, and the names and addresses of three references to:

Chair, Computer Science Search Committee

School of Electrical Engineering and Computer Science

Washington State University

PO Box 444722, Pullman, WA 99164-7252

CRA/JS/SC Digital Government Fellow.

November 2000

Some publications will begin immediately upon receipt of curriculum vitae. Maximum consideration will be given to applications received by January 10, 2001. A significantly expanded pool of exceptional candidates will be considered.

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November 2000

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Dr. Ford is Director of the Institute for Human and MACHINE COGNITION. For more information, visit the IHMC web site at: http://www.coginst.uwf.edu/.

This article is part of an ongoing series describing the activities of industry labs and centers that are members of CRA.

Research at the Institute for the Interdisciplinary Study of Human & Machine Cognition

The IHMC acknowledges the changing structure and practice of scientific inquiry by providing an umbrella under which researchers from many different schools of academic discipline may gainfully collaborate. In fact, it is a particular strength of IHMC that most of that of research projects is based on an interdisciplinary framework— in fact, in the boundary spaces between disciplines. However, universities are intellectually conserva- tive institutions and afraid of the changing scientific landscape very gradually.

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