
By Peter Harsha

Computing Research News

January 2008 Vol. 20/No. 1


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But DARPA, Some Computing Research Slated for Cuts

By Peter Harsha
Many believe that the problems of sexual harassment and gender discrimination have largely vanished in our computer science community. While the prevalence of explicit discrimination and open harassment has diminished, it has not gone away entirely, and implicit bias continues to exist. Discussions among female researchers on online forums and in professional groups indicate that graduate students and junior faculty, in particular have concerns, and at times experience disturbing instances. There seems to be a consensus that departmental leadership plays a crucial role in creating a better environment. With this in mind, the 2008 CRA Conference at Snowbird for departments and labs/centers directors will include a panel session on sexual harassment and gender discrimination.

Clearly progress has been made in academia in dealing with sexual harassment and gender discrimination. Most academic institutions make available a range of written and online materials, have processes in place to deal with reports of discrimination and harassment, run regular training sessions, and include discussion of bias and harassment issues in orientation programs for students and faculty. Consequently, a considerable number of people, at least within academia, believe that explicit sexual harassment is a thing of the past, and that more subtle forms of gender discrimination have waned. Unfortunately, however, this may not be true. In situations people have experienced, there can be disturbing incidents of harassment, and “implicit bias” is a pervasive phenomenon, in particular in male-dominated fields such as computer science. This is substantiated by a large body of research in the social sciences, as well as in discussions among female researchers. In some sense, explicit harassment should be easier to deal with than subtle, unintentional bias. After all, there is overall agreement that an incident and/or pattern of harassment should be reported to the administration so that processes within the university can be followed. Nonetheless, there is often significant uneasiness about reporting such incidents. Women experienced sexual harassment, especially graduate students and junior faculty, may be unsure at what point the legal threshold has been crossed and how to react in situations that feel uncomfortable. Even when a clearly illegal incident takes place, filing a complaint is often viewed as a last step because of concerns about not being believed and about possible retribution for making the complaint.

Senior faculty may assume that harassment and discrimination do not happen in their department and discredit the complaint. Even if they believe the complaint, their view may be that little can be done with respect to the behavior and attitudes of certain academic departments. While explicit harassment is clearly egregious, implicit bias is also an important current issue. While often unintentional, it is still damaging to women’s careers. Implicit bias, which has been widely studied, manifests itself in undervaluing the capabilities and contributions of women in male-dominated fields. Because it is not as obvious as explicit sexual harassment, people are less aware of it and there are fewer procedures in place for preventing it.

Efforts to improve the climate and diversity in academia need to address the full range of issues from explicit harassment to implicit bias. A number of the NSF-funded ADVANCE projects are trying to develop approaches for addressing these problems. For example, workshops organized by the STRIDE committee within the University of Michigan’s ADVANCE program argue that academic departments need to: 1) build up a critical mass for currently underrepresented groups, 2) continue to work towards eliminating biased evaluations, 3) recognize and address the impact of the accumulation of disadvantages affecting members of underrepresented group, and 4) recognize and address the range of subtle biases that too often influence and guide expectations and decisions regarding members of an underrepresented group. The achievement of such goals requires strong departmental leadership.

A recent discussion on a dedicated online forum for female computer scientists suggested that graduate students and junior faculty would welcome more information and more support on these issues from their departments. In particular, they would like to see their department leadership take a more active role in informally monitoring gender bias and fostering a more supportive department environment. Motivated by this discussion, the 2008 CRA Conference at Snowbird will include a session that will explore the question of what departments and individual faculty can do to minimize the likelihood of sexual harassment, to neutralize the effects of implicit bias, and to promote a departmental climate that is supportive of everyone. The discussion: 1) will focus on practical solutions departments can effectively implement, including ways of responding to harassment that does not meet the legal threshold but is detrimental to the environment and all involved, and 2) will be based on strategies that are grounded in extensive research from the social-science literature. Often the strategies are also applicable to dealing with other forms of discrimination (racial, ethnic, etc.). The session will be interactive, with participants discussing case studies similar to actual situations people have experienced. The panelists include Eric Grimson (MIT), Susanne Hambrusch (Portland State), Maria Klawe (Harvey Mudd College), and Valerie Taylor (Texas A&M).

Lori Clarke is a Professor in the Department of Computer Science at University of Massachusetts, Amherst, vice chair of CRA Board of Directors, and co-chair of CRAW. Susanne Hambrusch is Dean of the School of Information Science and a Professor of Computer Science and Engineering at the University of Michigan, and a member of CRA’s Board of Directors.

CRA-W Anita Borg Early Career Award
Nomination Deadline February 15, 2008
See: http://www.cra.org/activities/craw/borg

New CRA Board Member
We are pleased to welcome Norman P. Jouppi to the CRA Board of Directors representing the ACM, effective January 1, 2008. Dr. Jouppi is an HP Fellow and Director of the Advanced Architecture Lab at Hewlett Packard. He succeeded Gene Spafford who has been an active member of the board since 1998, and will continue to serve as a member of CRA’s Government Affairs Committee.
CRA Announces Outstanding Undergraduate Award Winners

The Computing Research Association honors the recipients of the CRA Outstanding Undergraduate Awards for 2008, sponsored this year by Mitsubishi Electric Research Labs (MERL). Microsoft Research and MERL are sponsors in alternate years.

Winner, Male Award

Chuan Sheng Foo is a junior at Stanford University majoring in Computer Science who intends to graduate in spring 2008. Chuan Sheng’s research interests lie in the area of machine learning and data mining. He has recently worked on two major research projects. The first involves the automatic tuning of regularization hyperparameters for a class of machine-learning models. In collaboration with a graduate student, Chuan Sheng implemented a solution based on deep understanding of the relevant mathematics that is both elegant and effective. A publication describing this work has been accepted by NIPS, a top machine-learning conference. The second project involves the prediction of RNA secondary structure. Chuan Sheng co-developed an innovative machine-learning based algorithm for the simultaneous folding and alignment of RNA sequences that is both more accurate and an order of magnitude faster than previous methods on realistic inputs. A paper describing this work is currently being written.

Chuan got his first taste of research in the four months between his freshman and sophomore years. He contributed to a paper at SOSP, of which he is a co-author. It is rare indeed for anyone to be an author on papers based on research in each undergraduate year.

Winner, Female Award

Raluca Ada Popa is a junior at the Massachusetts Institute of Technology majoring in Computer Science and Mathematics. At MIT, Raluca has been involved in two main research projects. The first project concerns an empirical investigation of electronic voting systems. Specifically, it concerns tight upper bounds on the number of ballots that need to be hand-counted in order to be confident in the results of voting system software. She contributed a central proof that resulted in a publication that she presented while only a sophomore. The second project concerns collaborative caching techniques for huge databases spread across large numbers of servers; it focuses in particular on fault tolerance in the face of dynamically changing sets of servers, some of which may be behaving maliciously. She has developed solutions for two key aspects of this system. A paper on these results is in preparation.

Finalists, Male Award

Adrian Dulca, University of Toronto; Henry DeYoung, Carnegie Mellon University, Lawrence Ericksson, University of Illinois at Urbana-Champaign; Eugene Greene, University of Windsor; Evan Hoke, Carnegie Mellon University; Arthur Mahoney, Utah State University; Rajes Ramakrishnan, Columbia University; and Yuanchen Zhu, Harvard University.

Finalists, Female Award

Adrienne Felt, University of Virginia; Iris Howley, Drexel University; Donya Quick, Southern Methodist University; and Franziska Roessner, University of Texas at Austin.

Finalists, Male Award

Adrian Dulca, University of Toronto; Henry DeYoung, Carnegie Mellon University; Lawrence Ericksson, University of Illinois at Urbana-Champaign; Eugene Greene, University of Windsor; Evan Hoke, Carnegie Mellon University; Arthur Mahoney, Utah State University; Rajes Ramakrishnan, Columbia University; and Yuanchen Zhu, Harvard University.

Honorable Mention, Female Award

Lucy Abramson, Harvey Mudd College; Tanya Cashorali, Northeastern University; Margaret (Meg) Davis, Texas A&M University; Jennifer Dolson, University of Virginia; Polina Dudnik, Binghamton University; SUNY; Alana Edmunds, Syracuse University; Gwendolyn Einfeld, Calvin College; Alina Enz, Princeton; Maja Fredrychowicz, McGill University; Ekaterine Gionina, University of Illinois at Urbana-Champaign; Paula Gonzalez, University of South Florida; Natasha Khoglad, Rochester Institute of Technology; Sue Yu Choi, Kwan, Cornell University; Katrina LaCurtis, University of Maryland; Dhiya Padmanabhan, Texas A&M University; Katrina Panovich, Indiana University, Bloomington; Lori Pietrascu, Hobart and William Smith Colleges; Cristina Pep, University of British Columbia; Kirsten Stark, University of Illinois at Urbana-Champaign; Catherine Wahl, University of Illinois at Urbana-Champaign; Kristina Wasteson, University of Northern Iowa; Dana Wen, University of Washington; and Juliette Zierck, University of Maryland; and Irene Zhang, Massachusetts Institute of Technology.

Honorable Mention, Male Award

Kurt Ackermann, Purdue University; Karenam Myers, Cornell University; Mitchell Beard, Georgetown University; Gilbert Bernstein, University of Texas at Austin; Kyle Bervy, Iowa State University; Lee Callender, University of Michigan; Rllys Caunso, University of Toronto; Jack Cheung, University of British Columbia; Nicholas Chrisman, Dartmouth College; Matthew Chu, University of Pennsylvania; Brendan Collins, Princeton University; Darren Davis, University of San Diego Morgan Dixon, University of Arizona; Jonathon Duerig, University of Utah; Jason Fennell, Harvey Mudd College; Jeffrey Fielding, Dartmouth College; Marc Godard, Queen’s University; Colin Gordon, Brown University; Mahlon Graham, University of Virginia; Arthur Guez, McGill University; Ian Haken, University of California, Berkeley; Paul Himes, Michigan Technological University; Nicholas Jalbert, University of Virginia; Christopher Jones, University of California, Berkeley; Kevin Karsch, University of Missouri–Columbia; Stephen Kent, University of Texas at Austin; Zachary Kincaid, University of Western Ontario Michael Krainiotis, University of Massachusetts Amherst; Kevin Lai, University of British Columbia; George Luccheses, Texas A&M University; Mikola Losenlo, Michigan Technological University; Patrick Marion, Rensselaer Polytechnic Institute; Grant Miller, University of Minnesota; T情况变量; David Morrison, Harvey Mudd College; Mark Rawl, University of Virginia; Fady Samuel, University of Waterloo; Tyler Steele, Cornell University; Matt Swanson, Iowa State University; Karik Talamadupula, Arizona State University; Michael Krainin, University of Washington; James Thiel, Drexel University; Anthony Waters, Rensselaer Polytechnic Institute, Caleb Wells, Texas A&M University; Sam Whittle, University of Washington; Marc Winners, Drexel University; Benjamin Wood, Williams College; Loren Yu, Stanford University; and Luke Zarko, University of Pennsylvania.

This year’s selection committee included Richard Watts (Mitsubishi Electric Research Labs), Chair; Geoff Keunning (Harvey Mudd College); Clement Lam (Concordia University); David Novick (University of Texas, El Paso); and Lynn Stein (Olin College).
Creating a Computer Science Major for Arts & Sciences Students

By David Evans and J. McGrath Cohoon

Undergraduate enrollment in computer science programs dropped precipitously in recent years. The CRA Taulbee survey indicates that the number of new students entering the major in 2006 was half of what it had been in 2000. HERI/UCLA reports similar declines among college freshmen intending to major in computer science. As Figure 1 depicts, the number of college-bound students who intend to pursue a computer science major is at its lowest point in more than ten years.

Most computer scientists find it extremely difficult to reconcile these decreasing enrollments with the exceptional fun, vibrancy, and opportunity we see in our field. Computing seems to suffer from misconceptions that our field is narrow in terms of people who can succeed as computer scientists, the content of computing curricula, and the kinds of careers open to graduates with computer science degrees. To mitigate these issues, we advocate expanding the accessibility of computer science degree programs by creating majors targeted to more students—in particular to non-engineering students.

Many computer science departments reside in schools of engineering, which limits access for nonengineers. Students who enter college without a definitive idea of what field they want to pursue, or who enter with a myriad of interests, may be repelled from engineering because of its highly structured curricula and typical focus on continuous mathematics and physical sciences. At universities where the only major in computer science is to enroll in the engineering school, this requirement presents a serious but unnecessary hurdle to pursuing a degree in computing.

Computer science has strong connections to the arts and sciences, as well as to engineering. Our deepest questions concern abstract properties of problems and processes; and most of our main challenges have little to do with physical constraints typically faced by engineers, but rather focus on designing abstractions to manage complexity. Further, applications of computing go beyond the (still important) engineering applications to encompass applications ranging from analyzing genomes to economic modeling to musical composition. This boundary-spanning nature of computing demands broadly educated professionals.

At the University of Virginia, we are expanding access to computing by creating a new Interdisciplinary Major in Computer Science (BA degree) for students in the College of Arts and Sciences. Building on our experience with a non-degree program and minor, the Computer Science Department (which is located in the school of engineering) initiated an effort to create a major for Arts and Sciences students in fall 2005. A committee (chaired by the first author) was formed consisting of a balanced mix of faculty from computer science and from the College of Arts and Sciences. Having strong involvement from college faculty was essential to both designing a suitable degree program and ensuring there was support for the new degree in the college. The degree was approved in spring 2006; and our first group of 25 students was admitted that spring.

The new degree incorporates many of the existing core courses from the existing engineering school BSCS degree (enough to ensure that graduates obtain a solid and comprehensive computer science education), along with two unique aspects: 1) a new two-course gateway sequence designed to bring students without previous computing experience into the major; and 2) a requirement to complete four "integration electives," which are selected courses taught by other departments that either cover material deeply related to computing (such as multimedia) or serve particular needs of computer science.

Creating a Computer Science Major Continued on Page 5

Figure 1. College-bound Students Indicating Computing & Information Sciences as Intended Major on SAT

Data source: College Board National Reports on College Bound Seniors

As technologists, we often focus on the technical aspects of our profession. Yet the cultural transformation wrought by the technologies we create is deep and profound, with implications for how we train a new generation of researchers and how we attract new and more diverse computer science students. Herewith are a few memories to personalize and ponder.

Reflecting for the first time that you could--For most of us, our intellectual sojourn began with this. Remember sitting on your parent’s lap, seeing that crazy jumble of shapes on the page become words and ideas, lifting off the page and filling you with wonder? This is cultural magic, the transmission of ideas across generations and minds via symbols. Computing research is creating new tools and approaches to knowledge transmission and facilitating the sharing of human experiences via ever richer and more vibrant representations.

Standing in the stead of a great library, marveling at the accumulated knowledge. The ideas and experiences of a library cross across the disciplines, and the centuries, a feast for the mind. Our work in storage technologies, knowledge representation, indexing and search are democratizing access to our cultural heritage and our knowledge base. A primary school child can now hold the text content of the Library of Congress in his or her hands, and many of us are working to develop more powerful and intuitive access mechanisms.

As a teacher, using enlightenment on students’ faces. There are few things more satisfying than “pulling back the magic curtain” and explaining the foundations of a complex process. For me, that experience was explaining how one constructs a computer from devices and gates; a device able to execute machine code derived from a high-level language. In each of our specializations and in our diverse applications of computing, the educational experience, for teacher and student, can be intoxicating.

Realizing for a researcher that you knew something never before known. This is when fragmented and diffused ideas assemble in crystal clarity and you know—you really know—something new. It is the essence of research: the sense of excitement, of childlike wonder at discovering general mechanisms behind special cases.

Holding the galley proof of your first research paper. If you were like me, you zealously checked and rechecked each word and each heading for typographical errors. That sense of excitement at having contributed something, however small, to our human knowledge base is what attracts each child to science and engineering. We need to nurture curiosity and innovation, recognizing that there is no clear separation between education and research. They are a continuum of personal discovery, enabled by computing.

Seeing your first program come to life. The often dazzling complexity generated from simple rules speaks to the deep nature of computability and the relations among mathematics, logic and our designed computing systems. We work in that most malleable of engineering media, the world of software, where ideas come to life in the systems we design. Feeling the power of shared thought in a great research team. The warp and woof of ideas ricocheting off one another, as they are embelished and enhanced by multiple perspectives and insights, is exhilarating. Working with experts across specialties and disciplines is an intensely social process. All too often, we in computing are perceived as solitary laborers; nothing could be further from the truth.

Each of us became researchers via personal paths. Our stories differ, and each is interesting as an example of computing’s intellectual attraction and vibrancy. Share your story with your students; let them see your passion.

Creating a Computer Science Major for Arts & Sciences Students

By Dan Reed, CRA’s Board Chair, is Microsoft’s Scalable and Multimedia Computing Strategist. Contact him at: Daniel.Reed@microsoft.com.

Do You Remember? Why Research and Education Really Matter

By Dan Reed, CRA’s Board Chair

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Creating a Computer Science Major Continued on Page 5
relationship between CCC and CRA is extremely close: Andy Bernat serves as the Executive Director of both organizations, the Chair of the CRA Board is an ex officio member of the CCC Council, and several members of the CCC Council (including myself) are current or former CRA Board members. NSF funds the CCC through a "cooperative agreement," meaning that we consult closely with NSF on all of our activities. Dick Karp from UC Berkeley, Chair of the NSF CISE Advisory Committee, is a member of the CCC Council, as are several other members of the CISE AC. Jeannette Wing, NSF AD for CISE, and a number of other CISE personnel participate in CCC activities in various ways.

CRN: What about other funding agencies?

EL: We're developing those relationships, with NSF's strong encouragement. The CCC Council includes individuals with strong ties to DARPA and the Department of Energy. We need to exploit these ties and develop ties with NIH and other agencies, as well as with industry (there are several industry members on the Council) and with international partners.

CRN: What's the relationship between CCC and GENI?

EL: GENI—the Global Environment for Networking Innovation—is an initiative of NSF and the computing research community that predates the CCC, but is an example of one sort of activity that the CCC might facilitate in the future. In 2004, CISE supported a community-based workshop to identify barriers to disruptive innovation in networking research, and to propose strategies to surmount them. Responding to the workshop recommendations, CISE established the Future InterNet Design (FINID) program to advance research on disruptive network architectures, and announced the GENI initiative to enable a process that would lead to specifications for what the workshop participants termed a "meta-tested"—a largescale research instrument that the workshop participants deemed necessary to tackle some of the most crucial questions related to networking. FINDI is a research program.

GENI is envisioned as a research instrument. NSF changed the CCC with establishing the GENI Science Council (GSC), whose job is to create the strongest possible research plan, and to ensure that any instrument that might be constructed enables the research plan to be carried out. There was a brief status report on GENI in the September 2007 issue of CRN.

CRN: Who's on the GENI Science Council?

EL: Like the CCC Council, the GSC was established through an open process, which I led. It includes 19 eminent computer scientists from a variety of fields, and is chaired by Ellen Zegura of Georgia Tech. The members are listed on the CCC website: http://www.cra.org/ccc/.

CRN: Will the research visions stimulated by the CCC all have the scale of GENI?

EL: Certainly not. The computing research community needs to identify the research directions that will shape the intellectual future of the field, the agendas that will catalyze research investment and public support, and the visions that will attract the best and brightest minds of a new generation. Some of these may require substantial research instrumentation; others will not. The role of the CCC is to help the community advance all of these visions. Our field has accomplished so much, and there is so much more to do. The opportunities are extraordinary.

Creating a Computer Science Major from Page 4

CRA Service Awards 2008

Distinguished Service Award

A. Nico Habermann Award

Nomination Deadline: February 1, 2008

See: http://www.cra.org

Computing Research Association Seeks Deputy Director

Position Description

Reporting to the Executive Director, the Deputy Director serves as CRA's chief operating officer, leading a management team that includes the Director of Policy, the Director of Programs and the Director of Finance and Operations. The Deputy Director is responsible for the day-to-day management of CRA and the overall development and implementation of its projects and programs. In addition, the Deputy Director assists in the development and preparation of the annual work plan and budget. In the Director's absence, the Deputy Director serves as the acting Director.

The ideal candidate is an experienced professional with a demonstrated record of successful leadership and significant experience building teams and managing multiple, concurrent projects. He or she will possess excellent interpersonal and communication skills, with a demonstrated ability to negotiate, influence and collaborate with both internal and external stakeholders.

Additional details about the position and how to apply are posted on the CRA website: http://www.cra.org.

CRA is an Equal Opportunity Employer. Women and minority applicants are especially encouraged to apply.

CRA-W and CDC Distributed Mentor Program

Undergraduate Summer Research Internships

Student and Mentor Applications Now Open for Summer 2008

Submission Deadline: February 15, 2008

See: http://www.cra.org/Activities/craw/dmp/

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Change of Address: Note that a change of address must include the old and new addresses with ZIP+4. Please include a street address or PO Box number.

Postmaster: Send address changes to: CRA, 1100 17th Street, NW, Suite 507, Washington, DC 20036-4632. Postage paid at Washington, DC.

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Janu aRy 2008 Co m p u t i n g Re s e aR Ch ne w s
spending the funding they had been appropriated in a timely fashion, so the appropriators "reclaimed" the unspent funds in order to pay for increases to other accounts within the bill. This is the same reason given for much of the overall cut to DARPA in the bill. DARPA will see a decrease of $135 million compared to FY 07, or about 4.3 percent less. When compared to the agency’s request for FY 08, the cut is $106 million, or 3.4 percent less.

The appropriators and the DARPA leadership cite differing reasons for the slow spend-out rate for some DARPA programs. DARPA contends that its slow spend-out rate is a reflection of its good stewardship of taxpayer dollars—that it is only paying its contract awardees when it is convinced that contract milestones have been (or will be) met. However, the community still has concerns about the nature of the increases approved. Ideally, the community would argue, those increases ought to be in the form of additional money for competitive, merit-based research funding. But at this point, it is not clear how much of the increases included in this appropriations bill—particularly for the applied research accounts (6.2-6.6)—that describes DARPA’s budget accordingly.

As a result, it is possible to know that the reason for the increases to the competitive funding in the Defense University Research Initiatives in the bill is the result of the work of Senators Evan Bayh (D-IN), Hillary Clinton (D-NY), Susan Collins (D-ME), Carl Levin (D-MI), Joseph Lieberman (D-CT), Tim Johnson (D-SD), Ted Kennedy (D-MA), John Kerry (D-MA), Carl Levin (D-MI), Joseph Lieberman (DCT), Mark Pryor (D-AR), and Debbie Stabenow (D-MI). Thanks have been extended to all of these Senators on behalf of the science advocacy community. With the Defense Bill finished (as this goes to press), Congress is left with 11 bills to complete before closing the book on FY 08. Only one other bill, the FY 08 Labor/Health and Human Services/Education Appropriations, has been sent to the President—and it was promptly vetoed (of course, the Senate upheld, mostly, the veto. In the House, the Labor/HHS/Ed bill, which includes funding for the National Institutes of Health and the Department of Education, came in at about $9.8 billion over the President’s desired "cap" for the bill, earning its veto. Congressional Democrats were not able to entice enough Republican members to vote to override (they fell two votes short in the House). The Democratic leadership plans to attempt to meet the President’s so-called "halfway" with an omnibus package of unfinished appropriations bills that split the difference between the President’s cap and the Democratic alternatives, but it is unclear whether they will get sufficient Republican support to force a compromise. It is also unclear what a "halfway" package might mean for the hard-won gains for science contained in some of the unfinished bills, including the Commerce, Science Justice bill. For those details, and all the latest, most up-to-date analysis of how science is faring in the appropriations process, be sure to check CRA’s Research Policy Blog http://cra.org/blog, which will keep a steady eye on developments as Congress tries to bring up the FY 08 appropriations cycle to a close.
Angelo State University

Computer Science Department
Tenure-Track Position

The Computer Science Department seeks applications for a tenure-track position. Teach twelve semester credit hours of undergraduate CS courses each semester and engage in scholarly activities and university service. Appointment date is August 22, 2008.

For more information, see the position announcement at:

Additional information about Angelo State University can be found at:
http://www.angelo.edu/publications/employment/universityprofile.html

Auburn University

Department of Computer Science and Software Engineering

Tenure-Track Faculty Position

The Department of Computer Science and Software Engineering (CS2E) invites applications for one tenure-track faculty position at the Assistant or Associate Professor level to begin Fall 2008. We encourage candidates from all areas of computer science and software engineering to apply. The following are preferred research areas: artificial intelligence, simulation, information assurance and security, database systems, theory, programming languages, and software engineering.

The area(s) selected for this position must be able to meet eligibility requirements to work in the United States at the time of hire. Candidates should have begun and continue working legally for the proposed term of employment and be able to communicate effectively in English. Applicants should submit a current curriculum vita, research vision, teaching philosophy, and the names and addresses of three references to:

Dr. Kai H. Chang, Chair
Computer Science and Software Engineering
Auburn University, AL 36849-5347
kchang@auburn.edu (with copy to mccorba@auburn.edu)
3584844000 (Voice)
The applicant review process will begin January 3, 2008. Details and an announcement of this position can be found at:
http://www.eng.auburn.edu/csae/ Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Berea College

Mathematics and Computer Science Department

Tenure-Track Position

Berea College announces a full time, tenure-track position in the Mathematics and Computer Science Department, beginning September, 2008. Appointment will be at the assistant professor level. A Ph.D. in Computer Science and willingness to teach courses in mathematics or a Ph.D. in the mathematics sciences with a willingness to teach courses in computer science is required. The successful candidate to teaching is essential. Responsibilities center on teaching and engaging in computer science teaching ranging from introductory to advanced undergraduate. Above all we are looking for candidates who have a strong commitment to teaching and who, in an undergraduate environment, will find ways to grow professionally.

All faculty in the Department will be expected to interact with students on a one-on-one basis in the exciting and vital teaching-learning process. Such activities as summer faculty/student research, independent studies, or senior capstone projects.

The Department is supportive of all forms of scholarship. Applicants should send a cover letter, resume, transcripts of graduate and undergraduate work, a statement of personal teaching philosophy, and three letters of recommendation by January 21st to:
Professor Elizabeth Blackburn, Chair, Mathematics and Computer Science Department
Berea College
 Berea, KY 40404

More information about Berea College and the Mathematics and Computer Science Department is available at:
http://www.berea.edu/mcs/

Women and minority candidates are especially encouraged to apply. Berea College, in light of its mission in the tradition of impartial love and social justice, reserves the right of the college to learn and work here.

California Institute of Technology

Computer Science Department
Tenure-Track Faculty Position

The Caltech Computer Science Department invites applications for a tenure-track faculty position. The CS department is a unique environment whose mission is interdisciplinary, and foundational research is conducted in a collegial atmosphere. We are looking for research that addresses all areas who have demonstrated exceptional promise through innovative research in computer science with strong potential connections to other mathematical, natural, and engineering sciences. A commitment to high-impact teaching and mentoring is also expected.

The initial appointment at the assistant-professor level is for four years and is contingent upon the completion of a Ph.D. degree in Computer Science or related field. Applications from well-qualified applicants may also be considered at the associate-professor or full professor level.

To fulfill the earliest consideration, applicants are encouraged to have all their application materials on file by January 31, 2008.

For a list of documents required and full instructions on how to apply online, please visit:
http://www.caltech.edu/search
Questions about the application process may be directed to:
search@cs.caltech.edu

Caltech is an Equal-Opportunity/Affirmative-Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

California Institute of Technology

Computer Science Department

Tenure-Track Faculty Position

A position is available for an instructorship in Computer Science with a light teaching load, for candidates interested in combining postdoctoral research and teaching. Appointments are conditional on completion of the Ph.D. The position may also be suitable for mathematicians with research interests in a visiting (i.e. sabbatical) position. Initial appointments are for one year and are renewable for a second year.

See http://www.cs.caltech.edu/
positions.html for application instructions.

All materials should be received by January 18, 2008.

Carnegie Mellon

Human-Computer Interaction Institute
Tenure-Track Faculty Position

Our world-class interdisciplinary Human-Computer Interaction Institute at Carnegie Mellon University (www.hci.cmu.edu) expects to fill one or more tenure-track faculty positions starting August 2008.

Design Research and Human Computer Interaction

We are especially interested in an extraordinary faculty member who will advance our interdisciplinary research in design dimensions of human-computer interaction. We expect to hire at any level including senior faculty.

Learning Sciences and Educational Technology

We seek a faculty member (assistant professor level) who will significantly advance our interdisciplinary work in learning science and technology research in intelligent tutoring systems, laboratory and classroom experimentation, educational data mining, computer-supported collaborative learning, ubiquitous computing in formal and informal learning settings, and educational design research.

Human Computer Interaction

The area is open but we are especially seeking candidates at the assistant professor level whose work will advance our interdisciplinary research in visual computing and the application of innovative methods (such as visualization, AI, and so forth) to HCI.

Applicants for a position should have the terminal degree in a discipline such as (but not limited to) design, computer science, psychology, HCI, or cognitive science.

We seek an outstanding educator and researcher who designs systems, implements systems, and/or performs rigorous empirical laboratory or qualitative field studies.

The candidate must be able to significantly advance research and theory in his/her own field and HCI. Review of faculty applications will begin December 15. Your application should include your CV, webpage URL, a statement of your research and teaching interests, copies of 1-3 representative papers, and the names, positions, and email addresses of three or more individuals who may be asked to provide letters of reference.

Carleton College

In an Equal-Opportunity/Affirmative-Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

Case Western Reserve University

Computer Science and Software Engineering Faculty Positions

The Department of Electrical Engineering and Computer Science at Case Western Reserve University is seeking Computer Science faculty candidates at all levels. We invite applicants in our thrust areas of Computer Science and Computer Engineering. To apply, send a letter of application, your CV, and research and teaching statements to: Faculty Search Committee, Department of Electrical Engineering and Computer Science, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-7271. Inclusion of a statement of education, diversity committee: Women and minorities are encouraged to apply.

Case is a recipient of a National Science Foundation ADVANCE institutional transformation grant to increase the participation of women in science and engineering.

Colorado School of Mines

Department of Mathematical & Computer Sciences

Tenure-Track Position

The Department of Mathematical and Computer Sciences invites applications for an anticipated tenure-track faculty position at the Assistant/Associate Professor level, beginning in August 2008.

We seek candidates with a Ph.D. in Computer Science or software engineering who have demonstrated ability to teach courses in the field of software engineering and computer science, and who can provide students’ ability to succeed in a multicultural and global community.

Review of applications will begin on January 30, 2008.

For complete information about the position and application procedures, visit our website at:

www.oswego.edu/vacancies

OSWEGO SUNY Oswego invites applications for a tenure track position as Assistant Professor in Software Engineering at the Department of Computer Science. A Ph.D. in Software Engineering or a related field is required. We seek individuals with a commitment to research and teaching in a faculty position. Candidates who have demonstrated ability to teach diverse courses at all levels of the curriculum in the field of software engineering and computer science, and who can promote students’ ability to succeed in a multicultural and global community.

Review of applications will begin on January 30, 2008.

For complete information about the position and application procedures, visit our website at:

www.oswego.edu/vacancies

SUNY Oswego is an Affirmative Action Employer.

Professional Opportunities

SCN Advertising Policy

See http://www.cra.org/main/cra.jobshow.html

Indicate your U.S. citizenship or describe your current visa status. Please send to Faculty Search Committee:

icra-research@eecs.umd.edu
Carnegie Mellon is an affirmative action/equal opportunity employer and we invite and encourage applications from women and minorities.

Case Western Reserve University

Department of Computer Science and Engineering

SUNY Oswego invites applications for a tenure track position as Assistant Professor in Software Engineering at the Department of Computer Science. A Ph.D. in Software Engineering or a related field is required. We seek individuals with a commitment to research and teaching in a faculty position. Candidates who have demonstrated ability to teach diverse courses at all levels of the curriculum in the field of software engineering and computer science, and who can promote students’ ability to succeed in a multicultural and global community.

Review of applications will begin on January 30, 2008.

For complete information about the position and application procedures, visit our website at:

www.oswego.edu/vacancies

SUNY Oswego is an Affirmative Action Employer.

Computer Science

Colorado School of Mines

Department of Mathematical & Computer Sciences

Tenure-Track Position

The Department of Mathematical and Computer Sciences invites applications for an anticipated tenure-track faculty position at the Assistant/Associate Professor level, beginning in August 2008.

We seek candidates with a Ph.D. in Computer Science or software engineering who have demonstrated ability to teach courses in the field of software engineering and computer science, and who can promote students’ ability to succeed in a multicultural and global community.

Review of applications will begin on January 30, 2008.

For complete information about the position and application procedures, visit our website at:

www.oswego.edu/vacancies

SUNY Oswego is an Affirmative Action Employer.

Assistant Professor of Software Engineering
Columbia University
Department of Computer Science
Tenure-Track Position

The Department of Computer Science is seeking applicants for a tenure-track position at either the junior or senior level in parallel distributed computing. Applicants should have a Ph.D. in a relevant field, and have demonstrated excellence in research and the potential for leadership in the field. Senior applicants should also have demonstrated excellence in teaching and continued strong leadership in research.

Our Department of 14 tenure-track faculty and 1 lecturer attracts excellent Ph.D. students, virtually all of whom are fully supported by research grants. The department has close ties to the nearby research laboratories of AT&T Labs, IBM (T.J. Watson), NEC, Siemens, Telcordia Technologies and Verizon, as well as to National and international computing and telecommunications companies, including Google, Microsoft, New York City is one of the largest metropolitan centers in the world, and Columbia University’s School of Engineering and Applied Sciences is located in Morningside Heights on the Upper West Side.

Applicants will be invited to submit a CV, summaries of research and teaching interests, and the names and email addresses of at least three references by filing an online application at:

http://www.cs.columbia.edu/facrecruit

Review of applications will begin on January 1, 2008.

Columbia University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

D. E. Shaw & Co., L. P.

Tenure-Track Faculty Positions

D. E. Shaw & Co., L. P. is seeking applicants for tenure-track faculty positions at all levels. The preferred interest is ARTIFICIAL INTELLIGENCE and MULTIAJENT SYSTEMS, although exceptional applicants in other areas will be considered. The department has an expanding graduate program in software engineering, graphics and vision, and network security and privacy. Applicants should have a Ph.D. in computer science or related field.

The department offers tenured and tenure-track positions at the full professor, associate professor, and assistant professor levels. Successful candidates are expected to have strong research and teaching records and to be highly productive in one or more of the areas listed above.

Interested individuals are asked to visit our web page to obtain a complete job description and further instructions on how to apply. Positions will remain open until filled.

Drexel University
Department of Computer Science
Tenure-Track Faculty Positions

Drexel University’s Department of Computer Science (www.cs.drexel.edu) invites applications for tenure-track faculty positions at all levels. The preferred interest is ARTIFICIAL INTELLIGENCE and MULTIAJENT SYSTEMS, although exceptional applicants in other areas will be considered. The department has an expanding graduate program in software engineering, graphics and vision, and network security and privacy. Applicants should have a Ph.D. in computer science or related field.

The department offers tenured and tenure-track positions at the full professor, associate professor, and assistant professor levels. Successful candidates are expected to have strong research and teaching records and to be highly productive in one or more of the areas listed above.

Interested individuals are asked to visit our web page to obtain a complete job description and further instructions on how to apply. Positions will remain open until filled.

Drexel University
School of Information Science & Technology
Tenure-Track & Non-Tenure Track Positions

Drexel University’s College of Information Science & Technology (IST) invites applications for multiple tenure-track and non-tenure-track positions in Library and Information Systems, Information, Systems, and Software Engineering at the assistant, associate, or full professor level. We welcome applications with a wide variety of teaching and research interests.

The successful candidate will have:

• A completed doctorate in library and information science or related field

• Evidence of excellence in teaching and/or research

• Interest in a highly collaborative faculty environment

The IST view of its primary mission is broad, multidisciplinary, and practical. IST continues to evolve as an innovative leader in education and research, with a tradition of both strong research and teaching performance. The MS (LS) degree is highly ranked, both overall and for specialization in information science and digital librarianship within the MS (LS) degree. Faculty and student interests span a broad spectrum of library and information science areas. Full-time PhD students are supported either through faculty research grants from the National Science Foundation, the Institute for Library and Museum Services, and other funding agencies, or through performance-based research or teaching related activities in the College.

All programs emphasize applied research, with a tradition of both top-quality research and significant contributions to the broader scientific and professional communities.

The D. E. Shaw group is looking for top-notch, innovative software developers to help us in our mission to revolutionize capital markets.

Applicants must have a B.S., M.S. or Ph.D. degree in computer science, mathematics, or a related field and must have strong programming skills. Both full-time and part-time positions are available.

The D. E. Shaw group is looking for top-notch, innovative software developers to help us in our mission to revolutionize capital markets.

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Applicants must have a B.S., M.S. or Ph.D. degree in computer science, mathematics, or a related field and must have strong programming skills. Both full-time and part-time positions are available.
Florida International University School of Computing and Information Sciences

Tenure-Track or Tenured Faculty Positions Applications are invited for new tenure-track or tenured faculty positions at the levels of Assistant, Associate, or Full Professor. Applicants must have a Ph.D. in Computer Science or related area is required.

Successful candidates are sought in areas of:

(1) Software and Computer Security;
(2) Software and Computer Architecture;
(3) Bio/Medical/Health Informatics;
(4) Data Mining; and
(5) Human-Computer Interaction (HCI).

Exceptional candidates in other areas will be considered as well. Candidates with the ability to forge interdisciplinary collaborations will be favored. Candidates for the senior positions will be considered for the endowed Ryder Professorship position.

Successful candidates are expected to develop a high-quality funded research program and must be committed to excellence in teaching at both the undergraduate and graduate levels.

Florida International University (FIU), the state university of Florida in Miami, is ranked by the Carnegie Foundation as a comprehensive doctoral research university with high research activity. FIU offers over 200 baccalaureate, masters and doctoral degree programs to over 30,000 students, and is one of the 25 largest universities in the United States, and boasts a new and accredited Law School and the newly created College of Medicine. FIU’s New World & Report has ranked FIU among the top 100 public universities, and Kiplinger’s Personal Finance magazine has ranked FIU among the best values in public higher education in the country in their 2006 ranking.

The School of Computing and Information Sciences (CIS) is a rapidly growing program of excellence at the University. The School has 31 faculty members, including seven new faculty hires. Candidates with three or more years teaching experience at the levels of Assistant, Associate, or Full Professor levels in the area of "Computation Theory and Database Research" is also of interest.

Gatsby Computational Neuroscience Unit

Gatsby Unit Postdoctoral Fellowship

The Gatsby Unit invites applications for a postdoctoral fellowship in machine learning and related areas. The Unit is especially interested in researchers working at the interface of machine learning with other mathematical sciences, such as combinatorics, optimisation, representation theory, mathematical statistics, network analysis and algebraic geometry.

The Unit is at the centre for theoretical neuroscience and machine learning, focusing on the interpretation of neural data, population coding, perceptual processing, neural dynamics, neuromodulation, and learning. The Unit has significant interests across a range of areas in machine learning.

Further information, please see: http://www.gatsby.ucl.ac.uk/vacancies/Closing date: 20 January 2008

George Mason University

Department of Computer Science Tenure-Track Faculty Position

The Department of Computer Science at George Mason University invites applications for a tenure-track faculty position at the rank of Assistant Professor beginning Fall 2008.

We are seeking a faculty member who can establish a strong research and teaching program in the area of computer game development. Applicants must have a research focus in one area in computer games technology—for example, in artificial intelligence, computer graphics, real-time rendering, simulation, modeling, distributed and multiresolution systems, human-computer interaction, and applied to computer games. Minimum qualifications include a Ph.D. in Computer Science or related field. Demonstrated potential for excellence in research and productivity in the area is required. The position is a tenure-track faculty position.

The department currently offers a graduate certificate in Computer Games Technology, and is in the process of launching a full undergraduate program. The Computer Game Design concentration is being developed in close collaboration with faculty in the College of Visual and Performing Arts at Mason.

For more information about these and other programs offered by the department, visit our Web site:
http://cs.gmu.edu

The department has over 40 faculty members with wide-ranging research interests in many inter-disciplinary areas, including algorithms, computer graphics, computer vision, databases, data mining, security, human computer interaction, parallel and distributed systems, real-time systems, robotics, software engineering, and wireless and mobile computing.

George Mason University is located in Fairfax, Virginia, a suburb of Washington, D.C., and home to one of the highest concentrations of high-tech firms in the nation. The region is excellent for芮tionships with government agencies and industry, including many game and “serious game” development companies. In particular, the Washington D.C. region is a leader in the videogame industry. Out-of-state tuition is half of the in-state rate for Virginia residents.

How to Apply: Applications should be sent to robotics-recruit@gmu.edu. Applications should include detailed research and teaching statements, vita, and the names and addresses of at least three references. For full consideration, applications should be received by 01/31/2008.

To reach the attention of Dr. J. Brophy, you should send your cover letter, CV, and references to robotics-recruit@gmu.edu.

A Member of Colleges of Worcester Consortium

Page 9
The Georgia Institute of Technology invites applications for two tenure-track faculty positions in the area of Computer Science. The department is seeking candidates with research interests in High-Performance Computing and Cybersecurity. Applications must be submitted online by December 15, 2007. For full consideration, applications must be received by January 15, 2008.

The School of Computer Science at the University of California, Berkeley offers a joint appointment in Computer Science and Engineering. Candidates are encouraged to apply. Applicants must have an outstanding record of research and teaching. Applications should be submitted online by February 15, 2008. For further information, please contact:

Professor Anthony Finkelstein, a.finkelstein@cs.ucl.ac.uk or Professor Mark Handley, m.handley@cs.ucl.ac.uk

Questions about these positions may be directed to:

Professor Anthony Finkelstein, a.finkelstein@cs.ucl.ac.uk or Professor Mark Handley, m.handley@cs.ucl.ac.uk

Full consideration will be given to those who apply by January 15, 2008.
Professional Opportunities

Principles & Methodologies http://www.almeden.ibm.com/cs/ disciplines/pm
Information Management http://www.almeden.ibm.com/cs/ disciplines/IM
Engineering and Manufacturing http://www.almeden.ibm.com/cs/ disciplines/EM
IPFW offers a competitive salary and benefits package and an exit to the post-employment environment.
Fort Wayne is the second largest city in Indiana and is located within several hours of Chicago, Cincinnati, Detroit, and Indianapolis. It boasts beautiful housing, a low cost of living and a safe environment.
Application review begins December 1, 2007 and continues until the position is filled. A letter of application, vita, statements of administrative, teaching and research philosophy, and a list of three references should be submitted via e-mail to: cs.chairsearch@omega.ipfw.edu.

Indiana University
Department of Informatics
Tenured Faculty Position in Information Security
The Indiana University School of Informatics seeks to appoint an outstanding scholar, teacher, and institution-builder at the full or associate professor rank to help lead Informatics’ cybersecurity research and education efforts. Candidates should have a Ph.D., a strong scholarship publication record, demonstrated success in obtaining competitive funding from the NSF and other sources, a commitment to mentoring and communicating, excellent communications skills, and both experience and interest in developing a cutting-edge, collaborative, interdisciplinary program. The successful candidate will join an interdisciplinary Informatics security group with broad-based expertise and a collaborative focus on the special challenges of security in pervasive computing, the usability of security tools in distinct social and organizational contexts, and policy and legal issues about information security and privacy.
Over the past decade, Indiana University has invested significantly in cybersecurity research, education, and practice, including eight new faculty lines, the Advanced Network Management Laboratory, the federal Research and Education Network Information Sharing and Analysis Center, the Center for Applied Cybersecurity Research, and the security and policy operations of the Network Operations Center for Internets2 and numerous inter-institutional and transpacific research networks. In 2007, Indiana University established a National Center of Academic Excellence in Information Assurance Education. The complete position description is available at http://cict.indiana.edu/ InfoPositionDescription.pdf. Applicants are invited to apply by sending a statement of interest and curriculum vitae to Professor Fred H. Cate, Chair of the Search Committee, at: info@cs.indiana.edu. Review of applications will begin in December and continue until the position is filled.
Indiana University is an Equal Opportunity/Affirmative Action employer.

University of Massachusetts
Assistant Professor
Department of Computer Science
www.cs.umass.edu
The Computer Science Department at the University of Massachusetts Boston invites applications for Fall 2008 for one faculty position at the Assistant Professor level. We offer a BS, MS with an emphasis in computer engineering, and a PhD in computer science in a broad array of areas within computer science including computer and human interfaces, data, data mining, databases, software engineering, systems and networks. Several courses are offered in game development and virtual reality.
Strong candidates will be considered from any area of Computer Science, but preference will be given to candidates with experience teaching courses in computer programming, knowledge representation, machine learning or networks. Evidence of graduate student advising or teaching experience would be ideal. We offer a competitive salary and a generous startup package. Send cover letter, curriculum vitae, statements about research and teaching, and the names and addresses of three references to Search Chair: assistant@cs.umass.edu.
We are an equal opportunity/affirmative action employer and student and employee racial minority in a center of academe and the software industry. For more information, visit us at http://www.cs.umass.edu.
UMass Boston is an affirmative action, equal opportunity Title IX employer.

January 2008
Computing Research News
Professional Opportunities

Michigan State University
Department of Computer Science and Engineering
Tenure-Stream Faculty Position
The Department of Computer Science and Engineering (CSE) at Michigan State University invites applications for a tenure-stream faculty position. The CSE Department seeks exceptional candidates with research interests in a diverse range of areas that exhibit excellence that fit within several of our university’s priority areas, which include Health, Security, Sustainability, Data, and Digital, and others. Candidates in databases, graphics and visualization, multi-agent modeling, and bioinformatics are highly desirous. Positions for exceptional candidates in other areas will also be considered. Candidates at all ranks will be considered. The appointment starts in August 2008.

The CSE Department conducts leading-edge research in many areas, with particular strength in software engineering and formal methods; computer systems and networking; and pattern recognition and machine intelligence. Multidisciplinary research across a broad range of disciplines is strongly encouraged and is being actively encouraged by the faculty. The Department presently has 25 faculty members and administers BS, MS and PhD programs. The CSE has a large, vibrant campus with many cutting-edge research facilities and centers. The greater Lansing area has approximately 450,000 residents. The local communities have excellent schools and the area places a high value on education. The University is proactive in exploring opportunities for the employment of spouses, both inside and outside the University.

Candidates should submit a cover letter, curriculum vitae, the names of three references, and statements of research and teaching interests to: http://jobs.msu.edu/ (below (email and pdf files are preferred). Applications will be reviewed on a continuing basis until the position is filled.

For full consideration, applications should be received by January 4, 2009. Faculty Search Committee
Department of Computer Science and Engineering
315 Engineering Building
Michigan State University
East Lansing, Michigan 48824-1226
search@cs.msu.edu

Microsoft Research Cambridge, Equal Opportunities
Microsoft Research Cambridge is one of the largest computer science research laboratories in Europe, with over 100 leading researchers from around the world across various disciplines. The research at the Computational Biology Division within MSR is focused on the application and development of highly novel computational methods and tools to study, model, analyze and better understand complex biological systems. Postdoctoral positions are available in the Computational Biology Division.

The positions offer an opportunity to join a rapidly growing laboratory with an exciting and ambitious research team. Microsoft Research Cambridge conducts collaborative research with computer scientists, biological and bioinformaticists in various disciplines. Postdoctoral positions exist to work with existing faculty and to support our growing team.

Dr. James Fisher is seeking a highly motivated postdoctoral fellow who is interested in applying modern methods to design and analyze executable algorithms that mimic biological phenomena. The ideal candidate should have a Ph.D. in computer science with a strong background in algorithms and a strong interest in biology. http://research.microsoft.com/ jfisher/

Lawrence Berkeley National Laboratory
Computational Science
Postdoctoral Fellowship Position
Low Temperature Condensed Matter Laboratory (LTCL) invites applications for the Luis W. Alvarez Fellowship in Computational Science. The fellowship allows recent graduates (within the past three years) with a Ph.D. in computational science with a strong emphasis on computing or computational science to acquire further scientific training. Such training could be of use for scientific computing and to develop professional maturity for independent research.

For more information about this position and to apply online, go to: http://jobs.lbl.gov
select “Search Jobs,” and enter job number 21111 in the keyword search field. Once you have located the position, click “Apply Now” and follow the online instructions to complete the online application process.

AA/EOE www.lbl.gov

Louisiana State University
Department of Computer Science
Tenure-Track Position
The Department of Computer Science at Louisiana State University (https://www.cs.lsu.edu/) invites applications from outstanding candidates for tenure-track faculty positions. Among a targeted investment by the state, the university has chosen to establish a Center for Secure CyberSpace jointly with LSU Tech. We invite applications from outstanding candidates at all ranks with preference given to candidates at the assistant professor level.

The department provides excellent research opportunities for incoming faculty with the potential to attract and establish new funded interdisciplinary research programs along with major efforts such as the Louisiana Optical Network Initiative (LONI), http://www.loni.org/. LONI, funded by a $350M commitment from the state provides a 40 Gbps connection between large-scale computing resources deployed at multiple research institutions. The infrastructure includes a statewide supercomputing grid of five 112 processor Condor clusters and nine 55 processor Condor clusters in six 525processor Dell PowerEdge servers and a 1455 processor Condor supercluster. These resources are connected by a 40 Gbps multi-link optical network which, in turn, is tied to the National Lambda Rail. LSU also has established the Center for Computation & Technology (www. cct.lsu.edu) to support and enhance research computing. The department has active research in all areas of computer science and security and network security.

Ideal Candidates should have expertise in one or more of the fields specified below:
• Internet and network security, security protocols
• Cryptographic methods, threats and vulnerabilities in cybersecurity (e.g., phishing, spamming, viruses, malware, etc.)
• High Performance Computing that leverages research opportunities for incoming faculty

Required Qualifications:
PhD in Computer Science, Electrical Engineering, or Computer Engineering or a closely related field with a distinguished record of scholarship commensurate with experience, and a demonstrated potential for world-class research, and a commitment to both undergraduate and graduate education. Excellent oral and written communication skills, a commitment to high quality professional service, and active participation in college responsibilities are expected. An offer of employment is contingent on a satisfactory pre-employment background check. Salary and rank will be commensurate with qualifications and experience. Applications will be reviewed on a continuing basis until all positions are filled.

Louisiana State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities to apply. For consideration, please submit in electronic form your curriculum vitae, statement of research and teaching interests, together with the names and contact information for at least three references to:
Prof. S. S. Jayawardena
Co-Chair of Center for CyberSpace Security
Dept of Computer Science
290 Curtis Hall
P.O. Box 298 Coates Hall
Baton Rouge, LA 70803
(Ref 210921 & 215602)

Marquette University
Department of Mathematics, Statistics and Computer Science
Tenure-Track Position
The Department of Mathematics, Statistics and Computer Science at Marquette University invites applications for a tenure-track Assistant Professor in Computational Science, to begin Fall 2008. A doctorate in computer science or related area is required and the position is ranked at either assistant or associate professor level.

Candidates will develop an active research program and will have the opportunity to work with current and future research areas of computer science, mathematics, and statistics in particular interest in visualization, computer graphics, human-computer interaction, high performance computing, bioinformation computing and knowledge environments. For more information about the Department and its programs see:
http://www.mathcs.msu.edu, or http://www.msu.edu

All applications for this position must be received through Marquette University’s electronic recruiting system, which can be accessed at:
intheCareers.marquette.edu/ application/ ActualJobFind/55841

Applicants should submit a cover letter with a statement of research interests and teaching philosophy, together with current curriculum vitae, and should arrange for three letters of reference to be sent to the Department, either by email to: ccoogan@msu.edu or by mail to:
Co-Chair of Computational Science Hiring Committee
Department of Mathematics, Statistics and Computer Science
Michigan State University
P.O. Box 1881
East Lansing, MI 48824-1881

Formal review of applicants will begin December 1, 2007 and will continue until the position is filled.

The department is committed to increasing the diversity of its faculty and we strongly encourage applications from women, minorities and those with disabilities.

Located in Lincoln, NE, Center for Advanced Computing and Druggestudy and teaching-research and university where staff, faculty, and students alike are challenged to make an enduring contribution to the betterment of humanity. Cornell University invites applications and nominations for the position of Director of the School of Electrical and Computer Engineering. Nominations and applications from women and underrepresented minorities are especially encouraged.

Cornell University, the largest of the Ivy League institutions, has a 50 year endowment, seven world class libraries and a 100000 student and faculty body. The vibrant learning community offers an extraordinary wealth of academic resources and research facilities. Located in Ithaca, NY, the picturesque campus is surrounded by the natural beauty of the Finger Lakes.

The largest of the schools and colleges in the Department of Electrical Engineering and Computer Science, BSE, is housed in the Cornell High Energy Accelerator Laboratory, one of the country’s most sophisticated nanotechnology facilities. The School benefits from a major investment in facilities, faculty, and graduate students and has a focus on growing its significant endowment.

The School of Electrical and Computer Engineering (www.ece.cornell.edu) has tremendous strengths arising from its outstanding faculty, numerous Cornell-based national centers for interdisciplinary research, a balanced emphasis on science and engineering, and the vibrant and enhancing environment that breaks down traditional department and discipline boundaries. The School graduated this past year 114 BS, 95 Ph.D., 20 MS, and 29 PhD students.

The Director is the chief academic and administrative officer of the School providing professional leadership and example for excellence in the educational and research programs she/he directs.

Potential candidates are invited to submit a letter of interest to: jsable@cornell.edu

Cornell University
Equal Opportunity Employer and Educator.

Cornell University
Director - School of Electrical and Computer Engineering - #07616

http://www.cornell.edu/jobs/profiles/2397.htm
Dr. Hilal Kargle is seeking a post-doctoral fellow to join the Department of Computer and Information Sciences at Temple University. The researcher will be an integral member of the group, or a post-doctoral fellow with strong biological background that is interested in applied artificial intelligence and machine learning tools and for addressing key biological questions. The position will be open until the start date for this appointment is January 1, 2008. Review of applications will continue until the position is filled.

Revised applications will be accepted until the position is filled.

For further information, please visit the Department of Computer and Information Sciences Web site at www.cs.temple.edu.
Further information about the hiring department and the University is available at:
http://www.ccs.northwestern.edu/
support/jobs-opps/and
http://www.northwestern.edu/Northwestern University is an
Affirmative Action, Equal Opportunity Employer. Women and minorities are
encouraged to apply. Hiring is contingent upon eligibility to work in the United
States.

Northwestern University
Department of Electrical Engineering and Computer Science
Assistant Chair Search
The Department of Electrical Engineering and Computer Science invites applications for the position of Assistant Chair. The Assistant Chair’s responsibilities include undergraduate and graduate administration, coordinating educational initiatives, industrial outreach and teaching introductory courses. The appointment will be in the non-tenure line. Applicants must have a Ph.D. degree in Electrical and Computer Engineering, Computer Science, or a closely related discipline, excellent communication skills and administrative experience. Salary is competitive. Applicants should submit curriculum vitae, a list of four references to: aschair@eecs.northwestern.edu or by regular mail to:
Assistant Chair Search
Department of Electrical Engineering and Computer Science
Northwestern University
2145 Sheridan Road
Evanston, IL 60208
In order to ensure full consideration, applications must be received by February 1, 2008.

The recently founded MPI for Software Systems joins a net-
work of almost eighty Max Planck Institutes (MPIs), Germany’s premier basic research facilities. MPIs have an established record of world-
class, foundational research in the fields of medicine, biology, chemistry, physics, technology, and humanities. Since 1949, MPI researchers have won 17 Nobel prizes. The new MPI aspires to meet the highest standards of excellence and international recognition in its research in software systems.

Max Planck Institute for Software Systems
Tenure-track openings

Applications are invited for tenure-track and tenured positions in all areas related to the design, analysis and engineering of software systems, including programming languages, formal methods, security, distributed, networked and embedded systems, databases and information systems, and human-computer interaction. A doctoral degree in computer science or related areas and an outstanding research record are required. Successful candidates are expected to build a team and pursue a highly visible research agenda, both independently and in collaboration with other groups. Senior candidates must have demonstrated leadership abilities and recognized international stature.

The institute offers a unique environment that combines the best aspects of a university department and a research laboratory:
• Successful candidates receive generous base funding to build and lead a team of graduate students and post-docs. They enjoy full academic freedom and publish their research results freely.
• They have the opportunity to teach courses and supervise doctoral students, and have the flexibility to incorporate teaching into their research agenda.
• They are provided with outstanding technical and administrative support facilities as well as internationally competi-
tive compensation packages.

Over the next decade, the institute will grow to a strength of about 17 tenure and tenured-track researchers, and about 100 doctoral and post-doctoral positions. Additional growth is expected through outside funding. We maintain an open, international and diverse work environment and seek applications from outstanding researchers regardless of national origin or citizenship. The working language is English; knowledge of the German language is not required for a successful career at the institute.

The institute’s locations in Kaiserslautern and Saarbruecken, Germany, offer a high standard of living, numerous cultural attractions and beautiful surroundings in the center of Europe, as well as a stimulating, competitive and collaborative work environment. Excellent proximity to cutting-edge research laboratories such as MPI for Informatics, Saarland University, the Technical University Kaiserslautern, the German Center for Artificial Intelligence (DFKI), and the Fraunhofer Institutes for Experimental Software Engineering and for Industrial Mathematics.

Qualified candidates should apply online at http://www.mpi-sws.org/applicants.

The review of applications will begin on January 14, 2008, and applicants are strongly encouraged to submit applications by that date; however, applications will continue to be accepted until February 29, 2008.
Pennsylvania State University
Applicant: Assistant/Associate Faculty Position
The Applied Research Laboratory (ARL) The Pennsylvania State University is an integral part of one of the leading research universities in the nation and serves as a university center of excellence in Defense Science and technology. Our mission is to focus on national and critical areas of research, technology translation, and academic programs.

The ARL Applied Interdisciplinary Research (AIR) Program seeks outstanding applicants with a strong background in Defense Science and engineering to join a diverse and dynamic research environment.

Applications are now being accepted for positions at the Assistant Professor level starting Fall 2008. We welcome outstanding candidates at a higher rank, who meet all of the qualifications listed below. All positions are contingent on availability of funds.

The Department of Computer Science and Engineering at Penn State is an equal opportunity, affirmative action employer and encourages applications from women and minorities.

Responsibilities:
- Development and maintenance of research and education activities within and outside of the Department of Computer Science and Engineering
- Engagement in priority areas of research such as: artificial intelligence, computer architecture, compilers, computer networking, data mining, database, distributed systems, embedded systems, formal language technologies, software engineering, and technology transfer.

Qualifications:
- Ph.D. in Computer Science or a closely related field
- Demonstrated potential for excellence in research and teaching
- Demonstrated potential for successful and collaborative research
- Demonstrated potential for excellence in teaching
- Demonstrated ability to secure external funding

Salary is based on qualifications and experience.

Send a one-page letter of interest, a current vita, the names and addresses of three references to:
- Search Committee
- Department of Computer Science and Engineering
- University Park, PA 16802

This institution provides smoking and restricted tobacco free areas. For further information, please visit the Penn State Tobacco Policy Website at: http://www.pennstate.edu/about/policies/pet/tobaccoPolicy.html.

Department of Computer Science and Engineering
Pennsylvania State University
University Park, PA 16802
http://www.cse.psu.edu /

Cornell University
Applicant: Focused Faculty Recruitment
The theory department at Cornell University invites applications for one or more anticipated tenure-track positions at all professoral levels. Although all research areas of computer science will be considered, we especially encourage applications from outstanding candidates with research interests in algorithms, data structures, and algorithm design and analysis.

Research interests are not limited to, computer architecture, compilers, computer networking, data mining, database, distributed systems, interactive systems, machine learning, multimedia systems, operating systems, parallel and distributed computing, programming languages and semantics, software engineering, and technology transfer.

Salary is based on qualifications and experience. Cornell University is an EEO/AA employer with a strong commitment to diversity and the employment of women.

Send all application materials to:
- Chair of the Theory Recruitment Committee
- Department of Computer Science
- Cornell University
- Ithaca, NY 14853

Please include reference number LEC92 with application.

Related Lecturer Positions
Located in Ithaca, N.Y., Cornell University is a holder, innovative, inclusive and dynamic teaching and research university where staff, faculty and students alike are challenged to make an enduring contribution to the betterment of humanity.

We are seeking applicants for ten tenure-track faculty at all levels. The primary focus of these positions is teaching and a commitment to bringing computer science research into the classroom. These positions are part of our longstanding commitment to excellence in both research and teaching.

The Department of Computer Science and Engineering at Cornell University is a leader in both research and teaching in the fields of computer science and engineering.

The Department of Computer Science and Engineering at Cornell University is an equal opportunity, affirmative action employer and encourages applications from women and minorities.

Applications will be considered as they are received, but for full consideration applications for faculty positions across the nation is an integral part of one of the leading research universities in the nation and serves as a university center of excellence in Defense science and technology. Our mission is to focus on national and critical areas of research, technology translation, and academic programs.

Applications are now being accepted for positions at the Assistant Professor level starting Fall 2008. We welcome outstanding candidates at a higher rank, who meet all of the qualifications listed below. All positions are contingent on availability of funds.

The Department of Computer Science and Engineering at Penn State is an equal opportunity, affirmative action employer and encourages applications from women and minorities.

Responsibilities:
- Development and maintenance of research and education activities within and outside of the Department of Computer Science and Engineering
- Engagement in priority areas of research such as: artificial intelligence, computer architecture, compilers, computer networking, data mining, database, distributed systems, embedded systems, formal language technologies, software engineering, and technology transfer.

Qualifications:
- Ph.D. in Computer Science or a closely related field
- Demonstrated potential for excellence in research and teaching
- Demonstrated potential for successful and collaborative research
- Demonstrated potential for excellence in teaching
- Demonstrated ability to secure external funding

Salary is based on qualifications and experience.

Send a one-page letter of interest, a current vita, the names and addresses of three references to:
- Search Committee
- Department of Computer Science and Engineering
- University Park, PA 16802

This institution provides smoking and restricted tobacco free areas. For further information, please visit the Penn State Tobacco Policy Website at: http://www.pennstate.edu/about/policies/pet/tobaccoPolicy.html.

Department of Computer Science and Engineering
Pennsylvania State University
University Park, PA 16802
http://www.cse.psu.edu/
Rice University is a private university with a strong commitment to academic excellence in both undergraduate education and in research. Rice attracts outstanding undergraduate and graduate students from across the nation and around the world. Rice provides a stimulating environment for research, teaching, and joint projects with industry. Teaching load is low to accommodate faculty research.

Please submit a resume, a statement of research, and the names and addresses of at least three references through the Computer Science website: http://www.cs.rice.edu. For more information, contact: http://www.cs.rice.edu or by contacting Ms. Darnell Price at 713-448-2200 or by email at dprice@rice.edu

Rice University is an Equal Opportunity/Affirmative Action Employer.

Rochester Institute of Technology
Computer and Information Sciences
Tenure-Track Faculty Positions

The Rochester Institute of Technology’s B. Thomas Golisano College of Computing and Information Technology invites applications and nominations for the following positions:

(1) Tenure-track research faculty position to support its new, innovative, interdisciplinary Ph.D. program
(2) Tenure-track Computer Science faculty in the areas of databases, data mining and applications
(1) Tenure-track faculty (and 1) Lecturer in Software Engineering in the areas of quality assurance, secure software systems and software process
(2) Tenure-track faculty and (1) Lecturer in Networking, Security, and Systems Administration in the areas of networking/computer security, digital forensics, and information assurance
(1) Tenure-track faculty in Information Technology in the areas of programming, database, and HCI

Successful candidates must have excellent teaching and scholarship, and the ability to contribute in meaningful ways toward the RIT commitment to multicultural diversity and pluralism. Ph.D. in computing or a closely related discipline is required for tenure-track. Ph.D. plus industrial or teaching experience is acceptable for the Lecturer positions.

In addition we invite applications for the following research oriented positions in CASCT:

(1) Research staff or PostDoc position in the areas of service oriented architecture, Web services, and Java. Knowledge in Grid computing and technological security is highly desired.

The Golisano College of Computing and Information Sciences is the home to the Center for Computer Architecture, Technology, Software Engineering, Networking, Security, and Systems Administration. The Center is the centerpiece of the 120-acre Advanced Technology Park in Henrietta, New York.

Applications should be submitted online:
http://www.rit.edu/employment

Review will begin immediately and continue until all authorized positions are filled.

Stony Brook University
Department of Computer Science
Faculty Positions

Stony Brook University’s Department of Computer Science has tenured-track faculty positions for Fall 2008. Strong candidates are strongly encouraged to apply, but we are particularly interested in receiving applications from highly qualified junior faculty members in all areas of research. Exceptional junior faculty members who have the potential to transform their field, or whose research bridged traditional academic boundaries, are encouraged to apply. STony Brook University has more than 21,000 undergraduate students and over 450 Master’s and Doctoral students. Our undergraduate students are engaged in scholarly activities that include educational approaches to computer science discovery and applied research with a focus on data mining, intelligent systems, complex systems theory and complexity, software engineering, cybersecurity, networking and distributed systems, cyberinfrastructure and grid computing, computational biology and bioinformatics, medical imaging, computer games, new communication, and human-computer interaction.

Candidates should visit https://mycareer.sunysb.edu for more information about the positions, the application process, and the college.

The deadline for applications is January 15, 2008, but earlier submissions are appreciated. Please specify whether you are applying for a tenure-track faculty position or a research position.

More information can be found on our web site: http://www.cs.rice.edu
Applications should include a complete curriculum vitae, a statement of research plans, a statement on teaching experience and philosophy, and a publication record. Applicants are asked to indicate their research specialization as one of five major areas: (A) security and cryptography, (B) computer networks, (C) software systems and software engineering, (D) artificial intelligence and knowledge management, and (E) visualization and human-computer interaction. The successful candidate will work with faculty and students to establish an active research program, and will be expected to teach courses at the undergraduate and graduate levels. Applicants should have a Ph.D. degree in Computer Science or closely related field and preferably an active research program and a strong publication record. The University of Calgary is committed to diversity and is an equal opportunity employer.

University of Nebraska-Lincoln
Department of Computer Science
Tenure-Track Position

The Department of Computer Science at the University of Nebraska-Lincoln invites applications for a tenure-track position available July 1, 2008, for a full-time faculty position in the field of Software Engineering. The successful candidate will be expected to teach courses in software engineering and to continue the existing research program in computer security. Applications should include a letter of inquiry, current vita, statement of research and teaching interests, and three letters of reference. The closing date for applications is January 15, 2008. No applications will be accepted after that date. For more information, please contact Dr. R. K. Bhanu, Chair of the Search Committee, Department of Computer Science, University of Nebraska-Lincoln, Lincoln, NE 68588-0119. Inquiries may be directed to the Chair or to rkb@unl.edu. The University of Nebraska-Lincoln is an affirmative action, equal opportunity employer and is committed to providing equal opportunity without regard to race, color, national origin, sex, age, religion, disability, sexual orientation, gender identity, veteran status, marital status, or political affiliation.
The University of California, Irvine Donald Bren School of Information and Computer Sciences Tenure-Track Faculty Position

The Department of Informatics at the University of California, Irvine (UCI) is seeking excellent candidates for a tenure-track position in Organizational Information Systems (OIS). The position will be available at all ranks in Computer Science. The successful candidate will contribute to the multidisciplinary University of California Irvine (UCI) projects through research and collaboration with faculty in Computer Science, Mathematics, Statistics, and Economics on high-performance and distributed computing, data intensive science, and geographic information systems. The University is responsive to the concerns of dual-career faculty and is committed to diversity and equality in education and employment. We encourage applications from women and minorities, individuals with disabilities and veterans.

University of California, San Diego Computer Science & Engineering Department Tenured or Tenure-Track Faculty Positions

The UCSD Department of Computer Science and Engineering (CSE) seeks to fill multiple tenured or tenure-track faculty positions. We invite applications at all levels in all areas of computer science and computer engineering, with particular interest in the following areas: Computer System Architecture, Computationally Intensive Computing, Computer Networks, Computer Security, Internet Technologies, Compiler Design and Optimization, Distributed and Parallel Systems, Embedded Systems, Human-Computer Interaction, Information Retrieval and Management, Intelligent Systems, Mobile and Wireless Computing, Security and Cryptography, Software Engineering, Computer Vision, and Computer Graphics. Exceptional candidates in all areas will be given serious consideration. The University of California is an Equal Opportunity, Affirmative Action Employer. Women and underrepresented minorities are strongly encouraged to apply.

University of Colorado Boulder Department of Computer Science Tenure-Track Faculty Position

The Department of Computer Science at the University of Colorado Boulder invites applications for a tenure-track faculty position in the areas of computer science, computer engineering, and bioinformatics. In addition, the department works closely with Center for Networked Systems (CNS), the Institute for Telecommunications and Information Technology (CallIT), The San Diego Supercomputer Center (SDSC), and the Center for Wireless Communications (CWC), which provide unique opportunities and resources to our members. More information about the department can be found at the Web site at:

http://www.cse.colorado.edu/

Application Procedure For details on how to apply click here:

http://www.cse.colorado.edu/campusrecruiting/postdoc.html

Applications are not accepted online by clicking on the job information page, but are available for downloading. Candidates must submit a curriculum vitae, statement of research, and statement of teaching experience. Please highlight any leadership experience. For consideration, applications should be postmarked by February 1, 2008. The position is open until filled.

University of Colorado Boulder Department of Computer Science Tenure-Track Faculty Position

The Department of Computer Science at the University of Colorado Boulder invites applications from exceptionally qualified candidates in all areas of Computer Science for faculty positions at the ranks of Professor, Associate Professor, Assistant Professor, and Instructor. The University of Colorado has the highest standards for scholarship and competition for teaching quality, and encourages collaboration across disciplines. The University of Colorado Boulder invites applications from exceptionally qualified candidates for a tenure-track faculty position at the rank of Assistant Professor in all ranks, or to the above postal address, in-person or online.
University of Delaware

Department of Computer and Information Sciences

Tenure-Track Position

Department of Computer and Information Sciences University of Delaware. Applications are invited for a tenure-track Assistant Professor position beginning Fall 2008. The curriculum vitae and all supporting materials shall be shared with faculty search committee members, 103 graduate students and 215 staff members. We have a Ph.D. degree in Computer Science, and significant external funding, including NSF Career and DOE Young Investigator Awards, and a Joint Communications and Networks that is part of the Army Research Lab’s Collaborative Technology Alliance. The University of Delaware’s computer science (www.cs.udel.edu) seeks candidates for collaborative research in bioinformatics. Considerable information about the Department is available on the web at: http://www.cs.udel.edu. Applications should be submitted as a single PDF file to: csfacsch+tt@cis.udel.edu and include in order: a cover letter (addressed to Dr. Chien-Chung Shen, Faculty Search Committee Chair), curriculum vitae including a list of references, a statement on research and a statement on teaching. Please DO NOT include copies of publications. In addition, at least five letters of recommendation should be mailed to: Tenure-Track Faculty Search Committee, University of Delaware, Newark, DE 19716. Application deadline is January 22, 2008. The curriculum vitae and all application materials shall be shared with departmental faculty. The University of Delaware is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

The University of Hong Kong

Department of Computer Science

Tenure-Track Position

The Department of Computer Science at The University of Hong Kong invites application for a tenure-track Assistant Professor position beginning Fall 2008. The curriculum vitae and all supporting materials shall be shared with faculty search committee members, 103 graduate students and 215 staff members. We have a Ph.D. degree in Computer Science, and significant external funding, including NSF Career and DOE Young Investigator Awards, and a Joint Communications and Networks that is part of the Army Research Lab’s Collaborative Technology Alliance. The University of Delaware’s computer science (www.cs.udel.edu) seeks candidates for collaborative research in bioinformatics. Considerable information about the Department is available on the web at: http://www.cs.udel.edu. Applications should be submitted as a single PDF file to: csfacsch+tt@cis.udel.edu and include in order: a cover letter (addressed to Dr. Chien-Chung Shen, Faculty Search Committee Chair), curriculum vitae including a list of references, a statement on research and a statement on teaching. Please DO NOT include copies of publications. In addition, at least five letters of recommendation should be mailed to: Tenure-Track Faculty Search Committee, University of Delaware, Newark, DE 19716. Application deadline is January 22, 2008. The curriculum vitae and all application materials shall be shared with departmental faculty. The University of Delaware is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

University of Iowa

Computer Science Department

Tenure-Track Position

The Computer Science Department seeks applications for a tenure-track assistant professor position commencing August 2008. Applications from all areas of computer science and informatics are invited. We also continue our search for collaborative research at the frontiers of computing in connection with other disciplines. Office Phone: 319-335-1507; Email: rsking@uiowa.edu; Web: http://www.cs.uiowa.edu/Informatics. Candidates must hold a PhD in computer science, informatics, or a closely related discipline. Applicants received by January 15, 2008, are assured of full consideration. Applications should contain a CV, research, and teaching statements. Please have three letters of recommendation sent to: Tenure-Track Faculty Search Committee, Department of Computer Science, 14 MacBain Hall, 100 East Washington Avenue, Iowa City, IA 52242-1419. The University of Iowa is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

University of Maryland

Center for Advanced Study of Language Assistant/Associate/Senior Research Scientists

The University of Maryland Center for Advanced Study in Language (CASL), established in 2001, is the nation’s 10th university-affiliated research center. Its mission is to conduct state-of-the-art research that advances our understanding of the links between language, cognition, and human behavior. CASL is seeking to expand its research team in Human-Computer Interaction and Human Language Technology. Candidates for these positions must have a Ph.D. in an appropriate field and a record of individual research achievement and publication. Candidates’ research and publications should demonstrate the ability to conduct collaborative interdisciplinary research and to work collaboratively with a range of institutions and researchers. Appointments to CASL are as a research faculty member of the University of Maryland. Candidates must hold U.S. citizenship or be willing to hold a U.S. permanent residence card. Send cover letter, curriculum vitae, and the names of at least 5 references. For more information, visit us at: http://www.cs.umd.edu/hiring/online/2008/positions.html

University of Massachusetts, Lowell

Department of Computer Science

Tenure-Track Faculty Positions

The Computer Science Department at UMass Lowell invites applications for one tenure-track assistant professor position to start in September 2008. Applicants must hold a PhD in computer science or a closely related discipline and be within three years of appointment. Preference will be given to candidates with expertise in the areas of software engineering, databases, information systems or networking. Exceptional candidates from other major disciplines of Computer Science will also be considered. UMass Lowell is located about 30 miles northwest of Boston in the high-tech corridor of Massachusetts. Its CS department has 18 tenure and non-tenure track faculty. It offers degree programs at the bachelor’s, master’s, and doctoral levels.

Send current CV, statements about research and teaching, and selected publications to: haring@cs.uml.edu. Inquiries or letters of recommendations should be sent directly. Visit http://www.cs.uml.edu/umask举动 for more information about this position. UMass Lowell is an affirmative action, equal opportunity Title IX employer.

University of Miami

Department of Computer Science

Postdoctoral Fellow and Visiting Faculty Positions

The Department of Computer Science (http://www.cs.miami.edu) at the University of Miami invites applications for a two-year postdoctoral fellow and several visiting faculty positions starting August, 2008. Postdoctoral applicants are required to have a Ph.D. in Computer Science or a related field, and to have specialization in data mining and/or machine learning.

The fellow will be a member of the university’s newly created Center for Computational Science. Applicants should have demonstrated ability to conduct interdisciplinary research with scientists in various parts of the university. The fellow is expected to participate in graduate student supervision, teaching a course in data mining or in a related area. The rank and qualification for the visiting positions are open.

The visiting faculty are expected to teach one course each semester in computer science and conduct research. When appropriate, membership in the Center for Computational Science can be arranged, which should provide ongoing collaborative research opportunities.

(continued)

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All applicants should apply online (http://ejobs.unm.edu). The University of Miami is an affirmative action, equal opportunity employer. University of Missouri at Columbia
Computing Science Department
Postdoctoral Fellow Position
The University of Missouri and Image Understanding Lab (CIGUL) in Computer Science Department at University of Missouri is seeking postdoctoral fellow to work on projects related to 3D image-based modeling. The candidate must have a PhD and be proficient in the area of Computer Graphics, Computer Vision, Shape Modeling and Image Understanding.
Initial appointment as a postdoctoral fellow is for one year with possible renewal for an additional 2-3 years. Salary is competitive with Big-10 and from a generous intellectual property and industry groups. University of Missouri-Rolla will benefit from close collaboration with several campus-wide research centers. The University of Missouri-Rolla is the primary campus for the Missouri University System and a Tier I research institution. The Department of Computer Science offers a full range of computer science concentrations and courses. The department has been consistently ranked in the top 20% in the country in the NSCS/Computing Research Association’s annual survey of computing research departments.
Interested candidates should send a letter of application, curriculum vitae, and the names and contact information of three references to: UMCSC@umr.edu. The University of Missouri-Rolla is an equal opportunity/affirmative action employer. University of Missouri-Rolla Department of Computer Science Tenure-Track Faculty Position
The Department of Computer Science at University of Missouri-Rolla is seeking outstanding candidates for tenure-track faculty positions, preferably at the Assistant Professor level. The department is involved in several academic and research opportunities. Applications are invited from faculty candidates for a tenure track position in Information Assurance at the Assistant Professor level starting fall 2008. Candidates must possess a doctoral degree in Computer Science or Computer Engineering and a strong record of externally funded research. Experience in teaching and a commitment to diversity are also desired.
The University of Missouri-Rolla is an equal opportunity/affirmative action employer. University of New Mexico
Department of Computer Science
Tenure-Track Position
The University of New Mexico is seeking applications for a tenure-track position in Computer Science. The Department of Computer Science at the University of New Mexico has approximately 220 undergraduate computer science majors, and 140 MS students. The department offers BS, MS, and PhD degrees in Computer Science. The workload of the incumbent is expected to teach courses primarily in Computer Science. The successful candidate will be expected to contribute to the departmental research efforts in one or more of these areas and to have commitment to quality teaching both at the undergraduate and graduate levels. Prospective candidates must have a demonstrated record of research publication, funding potential, and evidence of quality teaching with a commitment to the mission of the department. Candidates should apply online at: http://www.unmjobs.unm.edu. Inquiries for further information may be directed to the Chair of the Department of Computer Science, Dr. Steve Fajen, at 505-277-3258 or by email to sfajen@cs.unm.edu.
The University of Oklahoma is an Equal Opportunity/ Affirmative Action employer. University of North Carolina at Charlotte
Department of Computer Science
Tenure-Track Faculty Positions
The Department of Computer Science at the University of North Carolina at Charlotte invites applications for tenure-track positions with start dates for the Assistant Professor level starting fall 2008. Salary is competitive. Interested parties are encouraged to apply.
University of North Texas
Department of Computer Science
Tenure/Track Rank Open
The University of North Texas welcomes applications at the Assistant Professor level starting fall 2008. The department of Computer Science located within the College of Computer Science, Technology, and Engineering, offers a BS in Computer Science, located within the College of Computing and Informatics, has approximately 950 undergraduate computer science majors, 140 MS students and 60 Ph.D. students. The current research strengths will be considered. The position for this position is available on a basis of nine months.
Interested persons should send a letter of application, curriculum vitae, and the names and contact information of at least three references to: Chair, Computer Science Faculty Search Committee, Department of Computer Science and Engineering, University of North Texas, P.O. Box 311366, Denton, TX 76203 or email cs-faculty_search@unt.edu. The committee will begin its review of applications on December 1, 2007, and will continue to review applications once every month. The committee will accept applications until the position is filled, or the search is closed.
The University of North Texas is an Equal Opportunity/Affirmative Action/ ADA employer, committed to diversity in its faculty and student programs. University of Texas at Dallas
Computer Science and Information Technology Program
Faculty Position
The University of Texas at Dallas invites qualified candidates to apply for a tenure-track position, renewable for up to five years, beginning in fall 2008. Other than not participating in the University tenure award process, all other terms are offered as a regular faculty member. Applications should be submitted via the guidelines of an appropriate academic department and procedures apply to this position.
Salary is competitive and commensurate with experience. Information about the University of Texas at Dallas and about the College of Arts and Sciences can be found at www.utsa.edu. Interested applicants should send a letter of application, curriculum vitae, and the names and contact information of at least three references to: Chair, Computer Science Faculty Search Committee, University of Texas at Dallas, 800 West Campbell Road, Richardson, TX 75080.
The University of Texas at Dallas is an Equal Opportunity/Affirmative Action/ ADA employer and does not discriminate on the basis of sex, national origin, color, race, age, handicap, disability, religion, sexual orientation, or gender identity. University of Utah
Department of Computer Science
Tenure-Track Faculty Position
The Department of Computer Science at the University of Utah invites applications for one tenure-track position in Security and Information Assurance. Applicants should have a PhD and have expertise in the field of Computer Science. The University of Utah values diversity and is seeking exceptional scholars who can contribute to the diversity and excellence of the University-community through research, teaching, and service.
The successful candidate will be expected to teach courses in the areas of knowledge discovery and data mining, information retrieval, and robotics. However, exceptional candidates in any area that complements our current research strengths will be considered. The position is available on a basis of nine months. Salary is competitive and commensurate with experience. Information about the University of Utah and the College of Engineering can be found at www.cs.utah.edu. Interested persons should send a letter of application, curriculum vitae, and the names and contact information of at least three references to: Chair, Computer Science Faculty Search Committee, University of Utah, 3150 East U.S. Highway 80, Salt Lake City, Utah 84112. Applications will continue to be accepted until the position is filled. The University of Utah is an Equal Opportunity/Affirmative Action/ ADA employer and does not discriminate on the basis of sex, national origin, color, race, age, handicap, disability, religion, sexual orientation, or gender identity.
University of Texas at Arlington
Department of Electrical and Systems Engineering
Tenure-Track or Tenured Faculty Position

The University of Texas at Arlington (UT Arlington), Computer Engineering (ECE) Department has two tenure track faculty positions to fill for the year 2008-2009. We invite applications from exceptional candidates in computer engineering and software engineering as well as in all applied areas of computer science including, computer graphics and/or animation, game development, embedded systems (sensors and devices), speech and audio, augmented reality, and entertainment computing. Applications are for all ranks.

CSE is a very strong department in the College of Engineering (CSE) at UT Arlington, one of the largest engineering colleges in Texas. Committed to excellence in research and teaching, CSE has hired six (6) new tenure track faculty within the last 5 years. The CSE department is committed to diversity and invites applications from qualified individuals. Preference will be given to qualified candidates from underrepresented groups in engineering.

Interested persons should submit an application, please visit the Employment Opportunities website at: http://www.cse.utexas.edu/recruiting/

The University of Texas at Arlington is an Equal Opportunity/Affirmative Action Employer.

The University of Texas at Dallas (UTD) seeks nominations and applications for the position of endowed Chair. The Vice President for Academic Affairs and the Dean of the School of Engineering and Computer Science (ECS) are currently coordinating an effort to establish a new endowed Chair with a position in Electrical Engineering.

The University of Texas at Dallas is one of the top research universities in the country. The engineering school, one of the largest in the country, has over 4400 majoring undergraduate and graduate students. ECE has over 120 faculty members and is one of the top 25 academic programs in the world in terms of research funding. ECE is committed to excellence in research and education and seeks an endowed chair to strengthen the school’s focus on research and international programs.

Interested persons should submit a letter of interest, CV, a brief description of research interests and reference letters online (hardcopy or email applications are not accepted) at: http://www.utdallas.edu/employment/chair_eecs.html

University of Texas at Arlington
Department of Electrical and Systems Engineering

Jan Saunders, Office Manager
University of Oregon

Professional Opportunities

University of Texas at Arlington
Department of Electrical and Systems Engineering
Tenure-Track Positions

The Department of Electrical and Computer Engineering (ECE) at the University of Puerto Rico at Mayaguez (UPRM) invites applications for tenure-track positions in Computer Science and Electrical Engineering. The Department is interested in candidates with expertise in a variety of areas, including but not limited to, bioinformatics and biomedical computing, and artificial intelligence applications. Applications are strongly encouraged from women and minorities. UPRM is an AA/EO/ADA institution committed to diversity.

Interested persons should submit an application by following the instructions posted at the Faculty Recruitment Website: http://www.ese.uprm.edu/jobs

University of Texas at Arlington
Department of Electrical and Systems Engineering
Tenure-Track or Tenured Faculty Position

The University of Texas at Arlington (UT Arlington), Computer Engineering (ECE) Department has two tenure track faculty positions to fill for the year 2008-2009. We invite applications from exceptional candidates in computer engineering and software engineering as well as in all applied areas of computer science including, computer graphics and/or animation, game development, embedded systems (sensors and devices), speech and audio, augmented reality, and entertainment computing. Applications are for all ranks.

CSE is a very strong department in the College of Engineering (CSE) at UT Arlington, one of the largest engineering colleges in Texas. Committed to excellence in research and teaching, CSE has hired six (6) new tenure track faculty within the last 5 years. The CSE department is committed to diversity and invites applications from qualified individuals. Preference will be given to qualified candidates from underrepresented groups in engineering.

Interested persons should submit an application, please visit the Employment Opportunities website at: http://www.cse.utexas.edu/recruiting/

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University of Toronto

Department of Computer Science
Assistant Professor Position

The Department of Computer Science, University of Toronto, invites applications for a tenure stream appointment at the rank of Assistant Professor, to begin July 1, 2008.

We are interested in candidates with research interests in database systems. The University of Toronto is an international leader in computer science research and education. The department enjoys strong interdisciplinary ties to other units within the University.

Candidates should have (or be about to receive) a Ph.D. in computer science or a related field. They must demonstrate the ability to pursue innovative research at the highest level, and a strong commitment to teaching.

Salaries are competitive with our North American peers and will be determined according to the successful applicant’s experience and qualifications. Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live. It is also a major city for advanced computer technologies; the department has strong interaction with the computer industry.

To apply for this position, please visit: http://recruit.cs.toronto.edu/

The review of applications will commence on December 15, 2007. To ensure full consideration applications should be submitted by January 31, 2008.

The University of Toronto is committed to recruiting a leader of high recognition to guide the Jonsson School during its short history in terms of strategic and academic development. The Jonsson School is a dynamic and new environment offering the development of new academic and research programs, and the recruiting of outstanding new faculty members to staff both these new initiatives and the established programs, continuing the development of the student body in terms of academic and professional degrees, and growth, in faculty numbers and faculty research funding, and in international recognition, has taken place in close cooperation with the major high-technology businesses that are UTD’s neighbors. This world-class complex of knowledge-intensive industries will continue to be a driving force in the university’s growth and progress.

The responsibilities of the next Dean of the School will be to work collegially with faculty in guiding the development of new academic and research programs and the recruiting of outstanding new faculty members to staff both these new initiatives and the established programs, continuing the development of the student body in terms of academic and professional degrees, and growth, in faculty numbers and faculty research funding, and in international recognition, has taken place in close cooperation with the major high-technology businesses that are UTD’s neighbors. This world-class complex of knowledge-intensive industries will continue to be a driving force in the university’s growth and progress.

The search for a new Dean of the School will be conducted in close cooperation with the major high-technology businesses that are UTD’s neighbors. This world-class complex of knowledge-intensive industries will continue to be a driving force in the university’s growth and progress.

The Search Committee will consist of the following: Sherry R. Byrnes, Dean, School of Engineering; Vera Hueting, Dean, School of Arts and Sciences; Robert F. Hryniewicz, Chair, Search Committee; and Sue Ann Penner, Chair, Search Committee.

Submissions should be directed to:

be received by February 15, 2008.

The Search Committee will include representatives of students, faculty, and staff of the School of Management. UTD has four academic schools, UTD currently enrolls 21,000 students, 43% of whom are members of a minority group, and 56% of its students are first-generation college enrollees.

The University of Texas at Dallas was founded in 1969 as the successor to the Southwest Center for Advanced Studies, one of the first private engineering schools in the United States. UTD is a component of The University of Texas System and is located at the convergence of Dallas, Richardson, and Plano, in the heart of a complex of major international knowledge-intensive industries. Offering a broad assortment of bachelor’s, master’s and doctoral degrees in Business, engineering, liberal arts and science, the University’s unique location in terms of scholarly distinction and extra- regional recognition of the University is committed to recruiting a leader of extraordinary accomplishments and high recognition to guide the Jonsson School toward these goals, and anticipates investing the commensurate level of resources necessary to attain these goals.

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Professional Opportunities

For additional information, please contact Dr. Orlando Baiocchi at: faculty@u.washington.edu or by phone at (253) 692-4538
Information Technology and Systems

The University of Washington is an equal opportunity/affirmative action employer. The University is committed to having a diverse student body in which students from all racial, ethnic, cultural and socioeconomic backgrounds can succeed. The University adheres to the principles of affirmative action and welcomes applications from women and members of underrepresented groups.

Required qualifications:

• Eligible for appointment as tenure as full professor.
• Distinguished record of scholarship, strong record in teaching, and demonstrated potential for leadership in the discipline.

Applications must include:
1) letter of application, 2) curriculum vitae, 3) brief discussion of leadership experience, research goals, teaching philosophy, 4) a minimum of three reference contacts.

Screening of applications will begin January 1, 2008 and continue until the position is filled.

Applications should be submitted to: Department Chair Search Committee Department of Computer Science University of Wyoming 1000 E. University Ave, Department 3315 Laramie, WY 82071-2000

Electronic applications and inquiries should be directed to: http://search.cs.uwyo.edu

Wayne State University

Wayne State University is an equal opportunity/affirmative action employer. The University is committed to having a diverse student body in which students from all racial, ethnic, cultural and socioeconomic backgrounds can succeed. The University adheres to the principles of affirmative action and welcomes applications from women and members of underrepresented groups.

Applications should include:
1) letter describing academic qualifications, 2) curriculum vitae, 3) a description of teaching philosophy, and 4) names and contact information for at least three (3) references. Applications should be submitted to:

Faculty 80, Wayne State University

Screening of credentials will begin November 19th. All positions will remain open until filled. Salary is competitive and will be commensurate with experience and qualifications.

The University of Wyoming

The University of Wyoming is an affirmative action, equal opportunity employer. The University is committed to having a diverse student body in which students from all racial, ethnic, cultural and socioeconomic backgrounds can succeed. The University adheres to the principles of affirmative action and welcomes applications from women and members of underrepresented groups.

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University of Wyoming Computer Science Department

Development, conducting discipline and interdisciplinary research, teaching at the undergraduate and graduate levels, and mentoring junior faculty. Additionally, the successful candidate will be encouraged to utilize the research opportunities facilitated by a new National Center for Atmospheric Research (NCAR) supercomputer to be housed at the University of Wyoming (http://www.ucar.edu/). The successful candidate will be expected to develop an externally funded research program.

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Computing Research News

January 2008

About the Snowbird Conference: The biennial CRA Conference at Snowbird is the flagship on which the community depends for the future of the North American computing research community.

Program: Computer science, computer engineering, and information technology department chairs; assistant, associate, and prospective chairs; directors of graduate or undergraduate education; directors of industry or government research labs/centers; and professional society or government leaders in computing.

Information about the conference site: The Snowbird Resort is located in the Wasatch Mountains about 30 miles from Salt Lake City. A toprated ski resort in the summer, Snowbird offers hiking amid beautiful scenery.

**NEW** The conference will be extended through 4:30PM on the final day (Tuesday, July 15) with a **“Hot Topics” session at 1:30PM, followed by a special session of the Computing Community Consortium.**

This year at Snowbird: Three Nancy, Ph.D., T. C. Chang Chaired Professor in the Department of Computer Science at Columbia University, will be the after- dinner speaker on the opening night of the conference. His topic will be "Computational Cameras: Redefining the Image." There will be four plenary sessions, numerous parallel workshop sessions, a workshop for new department chairs, a "State of the CRA" address, and presentation of the CRA Distinguished Service Award.

Below is a program that will continue to be updated on the CRA website (http://www.cra.org) as additional information becomes available. Online registration will open in March.

### Plenary Sessions

1. Innovation in the Knowledge Economy
   - Chairs: Lisa Forlano (NIST)
   - Speaker: Jerry King (National Science Foundation)

2. Industrial Hiring Expectations: The Big Picture
   - Chairs: Alan Halevy (Google)
   - Speakers: Alan Eustace (Google)
   - Eric Grimson (MIT)

3. Computing Research Funding: The Federal Picture
   - Chairs: Andrew Bernat (Computing Research Association)
   - Speaker: Jennifer Widom (National Science Foundation)

4. Computing Community Consortium
   - Chairs and Speakers: Ed Lazowska (University of Washington), Susan Graham (UC-Berkeley), Chip Elliott (BBN), Ellen Zegura (Georgia Tech)

### Workshops

- **Web 2.0**
  - Web 2.0 is a set of tools that enables the masses to easily create content on the WWW, in the form of blogs, social networks, etc. The session will explore the challenges and opportunities associated with the Web 2.0 phenomenon.
  - Chair: Susan Graham (UC-Berkeley)
  - Speakers: Andrew Bernat (Computing Research Association), Hamilton’acciai (Wisconsin-Madison), and Guests

- **Research on a Small Scale**
  - An increasing number of CS faculty or relatively small universities and colleges are developing research programs.
  - Chair: Susanne Hambrusch (Purdue University)
  - Speakers: Robert Sedgewick (Princeton University), Dana Anderson (University of Michigan), and Guests

- **New NRC Rankings and the Taulbee Report**
  - For many years, CRA has used ranking surveys to reflect the Taulbee Survey that reflects NRC rankings. This session will examine the current state of the Taulbee report.
  - Chair: Susan Hambrusch (Purdue University)
  - Speakers: Andrew Bernat (Computing Research Association), and Guests

### Additional Opportunities at Snowbird:

- **NSF Research Infrastructure Workshop** – July 11-13
- **CRA Board of Directors Meeting** – July 12-13
- **Workshop for New Department Chairs** – July 13
- **IT Deans’ Meeting** – July 15-16 – Bobby Schnabel (University of Indiana)

For program details and registration information, please see the CRA website: http://www.cra.org; e-mail: snowbird@cra.org; or call 202-234-2111.

Conference Sponsors: ACM; Aca; CA Labs; IBM; IEEE Computer Society; Intel; Microsoft Research; Mitsubishi Electric Research Labs; Sun Microsystems; and USENIX.

Organizing Committee

- Co-Chairs
  - Jon Stuhr Moore (University of Texas at Austin), Academic Chair
  - Mark Surevich (Telmec Technologies), Lab/Center Snowbird Chair

Members

- Kim Bruce (Fomona College), Y. Ding (Florida International University), Michael Dunn (Indiana University), Cita Furiani (National Institute of Standards and Technology), Eric Gelenbe (Alameda Institute of Technology), Elizabeth Hance-Lloyd (Georgia Institute of Technology), Hank Korth (Lehigh University), Rico Malvar (Microsoft Research), Tamer Oszu (University of Waterloo), Sertabzaman (Panch) Pancharan (Arizona State University)

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