COMPUTING RESEARCH NEWS

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The Computing Community Consortium: Who, What, When, Where, Why, and How

Ed Lazowska

Computing Research News *interviews Ed Lazowska, Bill & Melinda Gates Chair of Computer Science & Engineering at the University of Washington, and Chair of the Computing Community Consortium. Short articles on the CCC in its formative stages appeared in the November 2006 and May 2007 issues of CRN.*

Computing Research News: Begin by describing the Computing Community Consortium. What is its role?

Ed Lazowska: The National Science Foundation created the Computing Community Consortium with the goal of stimulating the computing research community to imagine, articulate, and pursue more audacious research visions—visions that will capture the imagination and change the world. The CCC is funded through an NSF award to the Computing Research Association; the CCC's Council operates as a committee of CRA.

CRN: Who is on the CCC Council? How were they chosen?

EL: The CCC Council comprises a Chair and 15 members on staggered 3-year terms. Members of the Council are listed on the CCC website: http://www.cra.org/ccc/. The Council was chosen through an open process led by Randy Bryant, Dean of the School of Computer Science at Carnegie Mellon University. I chair the Council (this selection, too, involved an open process led by Randy), and Susan Graham from UC Berkeley serves as Vice Chair.

CRN: What's the role of the Council?

EL: The Council serves as a facilitator. It is *the computing research community as a whole* that must imagine, articulate, and pursue more audacious research visions. The Council helps the process in various ways.

CRN: How?

EL: We're in the early stages—the Council was appointed six months ago, after an open process that engaged the entire computing research community. Here are some examples:

- The CCC sponsored a set of five plenary talks at the Federated Computing Research Conference in June—talks by Christos Papadimitriou, Bob Colwell, Randy Bryant, Scott Shenker and me that described specific research visions for the field. See http://www.cra.org/ccc/fcrc/.
- The CCC is providing support for "visioning workshops" organized by members of the computing research community. Sponsorship can be obtained through a lightweight proposal process; the first awards have already been made, and we were excited by the level of participation. See http://www.cra.org/ccc/rfp/.
- We will coordinate closely with funding agencies so we can help to transition visionary ideas into funded programs.

"Our field has accomplished so much, and there is so much more to do. The opportunities are extraordinary."

- We are preparing an inspirational website and booklet describing a wide range of research visions for the field. We are also initiating a blog where the entire research community can participate in real time.

CRN: How does the CCC relate to CRA and to NSF?

EL: CRA and CCC both are concerned with the health of the computing research community—CRA in a broad-based way, and CCC with a narrower focus on research visions. One way to view the relationship is that NSF, by funding the CCC through CRA, has provided CRA and the computing research community with the means to dramatically expand our efforts in this particular area. The

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Defense Research Sciences Will See Gains in FY 08

But DARPA, Some Computing Research Slated for Cuts

By Peter Harsha

Research programs at the Department of Defense will see some increases in funding, thanks to final passage of the FY 2008 Defense Appropriations bill (H.R. 434), but some programs of interest to the computing research community will lose funding, largely because the agency responsible—the Defense Advanced Research Projects Agency—was too slow to spend it.

On November 13, 2007, President Bush signed the final conference agreement for H.R. 434, making the bill the first of the twelve FY 08 appropriations bills necessary to fund the continued operations of government to grind its way through to passage (P.L. 110-116). The Defense bill contains more than $77 billion in funding for Defense Research, Development, Testing and Evaluation (RDT&E), an increase of 2.0 percent over FY 07 and 2.9 percent above the President's budget request for FY 08. Included in that RDT&E account are healthy increases over the President's request for basic and applied research efforts in the service labs (Army, Navy, and Air Force). At the same time, overall funding for DARPA will see a decline of 4.3 percent compared to FY 07—3.4 percent lower than the President's request.

In general, a review of the funding levels in the bill (see chart) shows that many research programs of note in the service labs received more in the final appropriations than they requested in their FY 08 budgets. At the same time, the "Defense-wide" accounts (primarily DARPA), did not fare quite as well.

Two accounts that do not seem to do particularly well in the bill are DARPA computing accounts—the Defense-wide Information and Communications Technology (ICT) program and the Cognitive Computing program. ICT will see a decrease of 1.3 percent, or about $3 million (to $232 million), compared to its FY 07 level. Cognitive Computing will see a decrease of 2.7 percent, or $4.9 million (to $176 million), compared to FY 07. When compared to the President's budget request for FY 08, the accounts appear to do a little better, with ICT slated to exceed the budget request by 0.9 percent (or $2.1 million) and Cognitive Computing declining only 2.2 percent (or $3.9 million) in FY 08.

Congressional appropriators attributed the decrease in funding to an "execution adjustment" to those programs. Apparently they were not

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Expanding the Pipeline

2008 CRA Snowbird Session to Focus on "Practical Solutions to a Continuing Problem: Sexual Harassment and Gender Discrimination"

By Lori Clarke, Susanne Hambrusch, and Martha Pollack

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 on-line 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 department chairs 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 on-line 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, there continue to be disturbing incidents of harassment, and "implicit bias" is a pervasive phenomenon, particularly 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 experiencing 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 individuals.

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 countering 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 the impact of the accumulation of disadvantages affecting members of underrepresented groups, 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 on-line 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 (Purdue University), 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's Board of Directors, and co-chair of CRA-W.* **Susanne Hambrusch** *is a Professor in the Department of Computer Science at Purdue University and a member of CRA-W.* **Martha Pollack** *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 succeeds 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, Female Award

Rachel Sealfon is a senior at ***Princeton University*** majoring in Computer Science.

Rachel's research is in the area of bioinformatics. Working largely independently, she developed a novel system for Gene Ontology analysis, search and exploration. She is the lead author of a paper on this research that has been published in *BMC Bioinformatics* (one of the main journals in the field). Her paper received stellar reviews and a lot of attention in the field, and her system is being used by biology researchers in many institutions.

Rachel has a near-perfect GPA in a diverse and demanding range of courses. In addition, she is a talented writer and has won several awards for her writing. One essay won the National Gilder Lehrman Prize in 2004 for the best essay on American History published in *The Concord Review*, the only journal to publish exemplary historical writing by high school students.

Winner, Male Award

Kevin Dick is a senior at the ***California Institute of Technology*** majoring in Computer Science and Mathematics.

Kevin has worked on two major research projects. The first involves understanding the impact of caches on the performance of algorithms. Kevin developed a variant of the FFT that yields optimal use of hardware prefetching, which resulted in a workshop paper given by Kevin and a paper describing a mathematical model of prefetching. The second project concerns DNF minimization, which is perhaps the most natural and important example of a problem that is "even harder" than NP. Kevin contributed key insights that lead to tight bounds on the approximability of a class of DNF minimization problems.

In addition to working on his research projects, Kevin has maintained a high GPA in a demanding course schedule and has served as a teaching assistant.

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 areas 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 Sheng got his first taste of research in the four months between completing his compulsory Singapore military service and entering college. At the Institute for Infocomm Research in Singapore, he worked on a system to automatically identify protein complexes based on protein interaction data. The resulting paper won the Best Paper Award at the 16th International Conference on Genome Informatics in 2005.

Runner Up, 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 is theoretical in nature and concerns the auditing of computerized elections. 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 cooperative 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.

After spending her freshman year at Cal Tech, Raluca transferred to MIT, maintaining a perfect GPA at both institutions. In the summer between, Raluca worked on a research project at the University of Illinois at Urbana-Champaign that resulted in a paper at SOSP, of which she is a co-author. It is rare indeed for anyone to be an author on papers based on research in each undergraduate year.

Finalists, Female Award

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

Finalists, Male Award

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

Honorable Mention, Female Award

Lucy Abramyan, 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 Ene**, Princeton; **Maja Frydrychowicz**, McGill University; **Ekaterine Gonina**, University of Illinois at Urbana-Champaign; **Paola Gonzalez**, University of South Florida; **Natasha Kholgade**, Rochester Institute of Technology; **Siu Yu Cherie Kwan**, Cornell University; **Katrina LaCurts**, University of Maryland; **Dhivya Padmanabhan**, Texas A&M University; **Katrina Panovich**, Indiana University, Bloomington; **Lori Pietraszek**, Hobart and William Smith Colleges; **Cristina Pop**, University of British Columbia; **Kirsten Stark**, University of Illinois at Urbana-Champaign; **Catherine Wah**, University of Illinois at Urbana Champaign; **Kristina Wanous**, University of Northern Iowa; **Dana Wen**, University of Washington; and **Juliette Zerick**, University of Mary Washington; and **Irene Zhang**, Massachusetts Institute of Technology.

Honorable Mention, Male Award

Kurt Ackermann, Purdue University; **Kareem Amin**, Cornell University; **Mitchell Beard**, Georgetown University; **Gilbert Bernstein**, University of Texas at Austin; **Kyle Byerly**, Iowa State University; **Lee Callender**, University of Michigan; **Rhys Causey**, University of Toronto; **Jackie Cheung**, University of British Columbia; **Nicholas Christman**, Dartmouth College; **Matthew Chu**, University of Pennsylvania; **Brendan Collins**, Princeton University; **Darren Davis**, University of San Diego; **Morgan Dixon**, University of Maryland; **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 Krainin**, University of Massachusetts Amherst; **Kevin Lai**, University of British Columbia; **George Lucchese**, Texas A&M University; **Mikola Lysenko**, Michigan Technological University; **Patrick Marion**, Rensselaer Polytechnic Institute; **Grant Miller**, University of Minnesota, Twin Cities; **David Morrison**, Harvey Mudd College; **Mark Rawls**, University of Virginia; **Fady Samuel**, University of Waterloo; **Tyler Steele**, Cornell University; **Matt Swanson**, Iowa State University; **Kartik Talamadupula**, Arizona State University; **David Tepper**, 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 Waters*** *(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).* ■

Musings from the Chair

Do You Remember? Why Research and Education Really Matter

By Dan Reed, CRA Board Chair

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 computing students. Herewith are a few memories to personalize and ponder.

Realizing–for the first time–that you could read. 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, leaping 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 stacks of a great library, marveling at the accumulated knowledge. The ideas and experiences of a library call across the disciplines and the centuries, a feast for the mind. Our work in storage technologies, knowledge representations, 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, seeing 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 as 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 embellished and enhanced by multiple perspectives and insights, is exhilarating. Working with experts across specializations 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.

Dan Reed, *CRA's Board Chair, is Microsoft's Scalable and Multicore Computing Strategist. Contact him at: Daniel.Reed@microsoft.com.* ▮

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 misperceptions, 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 non-engineers. 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 way to 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.

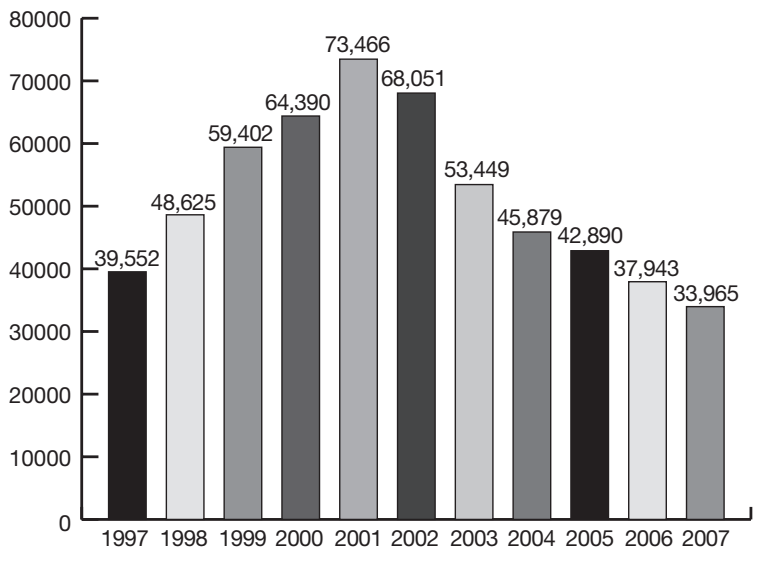
Computer science has strong connections to the arts and sciences, as well as to engineering. Our deepest questions concern abstract properties of problems and processes; and most of our main challenges have little to do with physical constraints typically faced by engineers, but rather focus on designing 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 degree 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 a

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

The Computing Community Consortium from Page 1

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 pre-dates 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 (FIND) 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-testbed"—a large-scale research instrument that the workshop participants deemed necessary to tackle some of the most crucial questions related to networking. FIND is a research program. GENI is envisioned as a research instrument. NSF charged 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

philosophy course on symbolic logic, math course on number theory, and an economics course on game theory) or connected through applications (such as digital art and music courses and computational science courses).

Our initiative with the BA degree offset the enrollment declines in our BS program, attracting about 25 majors per year. Further, these BA students bring a diversity of thought and breadth of interests into our classes, enriching them with their knowledge and interests in fields such as cognitive science, music, biology, and linguistics. We gain more than numbers when we create a computer science major for Arts and Sciences students.

David Evans *is an Associate Professor and Director of the Interdisciplinary Major in Computer Science at the University of Virginia.* **J. McGrath Cohoon** *is a Senior Research Scientist at the National Center for Women and IT, and Assistant Professor of Science, Technology, & Society at the University of Virginia.* ■

CRA Service Awards 2008

Distinguished Service Award
and
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 CRAs 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 at: 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/

COMPUTING RESEARCH NEWS

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Defense Research Sciences from Page 1

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 spending 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, congressional appropriators (and some on the Armed Services Committees as well) contend that what is really happening is a bottleneck in the DARPA Director's office—that micromanagement of programs is slowing their execution. In either case, the fact remains that DARPA is not spending all the funds it has been appropriated, and so the appropriators—who control the agency's purse strings—have adjusted DARPA's budget accordingly.

The accompanying chart also shows some other budget maneuvering between the Administration and the Congress. In general, research programs received more than they asked for in FY 08, but less than they received in FY 07. In most cases, this result is more reflective of the continuing push and pull between the Administration and the Congress over budget earmarks. Typically, as the Administration prepares its budget request to Congress, it strips out funding increases provided by Congress the previous year that exceeded the President's request for that budget year. The Administration considers most of those increases "congressionally-directed earmarks"—especially if they were targeted to very specific programs or performers. Because the Administration attempts to purge these "earmarked" funds from its request, the funding levels in the President's budget often look like a cut in funding for many programs. But, as the request works its way through the appropriations process, much of that funding will be added back in by Congress, making it appear that there are increases in those accounts. And indeed there are—though it is possible (even probable) that many of those increases are simply earmarks.

While the increases in this appropriation look reasonably healthy when compared to the President's budget, the science advocacy 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)—fit that description. In the basic research accounts (6.1), it is probably reasonable to assume that much of the increases found in the bill represent additional competitive funding.

One change to the appropriations bills this year has made it easier to see who to credit for some of the increases to defense basic research accounts. New rules on transparency in the Senate mean that every change to the budget estimate called for in the bill is credited to the Senator who requested it. [***Note:*** You can see these credits in the Senate Appropriations Committee report accompanying the Senate version of the FY 2008 Defense Appropriations bill, found at: http://thomas.loc.gov/cgi-bin/cpquery/R?cp110:FLD010:@1(sr155)]. 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 (R-ME), Tim Johnson (D-SD), Ted Kennedy (D-MA), John Kerry (D-MA), Carl Levin (D-MI), Joseph Lieberman (D-CT), 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 (a veto subsequently upheld, narrowly, in the House). The Labor/HHS/Ed bill, which includes funding for the National Institutes of Health and the Department of Education, came in about $9.8 billion over the President's desired "cap" for the bill, earning his 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 "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 Computing Research Policy Blog (http://cra.org/blog), which will keep a steady eye on developments as Congress tries to bring the FY 2008 appropriations cycle to a close. ■

FY 2008 DEFENSE APPROPRIATIONS CONFERENCE AGREEMENT — Selected 6.1 and 6.2 Accounts
(in thousands)

				Conference Agreement			
	FY 2007	**FY 2008 req**	**FY 08 Conference**	vs 2007	% vs 2007	vs 2008 req	% vs 2008 req
Defense RDT & E	75,721,604	75,117,194	77,271,482	1,549,878	2.0%	2,154,288	2.9%
Army-BR In-House Lab Research	19,402	19,266	21,666	2,264	11.7%	2,400	12.5%
Army - Defense Research Sciences	172,018	137,676	166,076	-5,942	-3.5%	28,400	20.6%
Army - URI	91,745	64,843	82,973	-8,772	-9.6%	18,130	28.0%
Army - University and Industry Research Cen	96,816	84,034	110,804	13,988	14.4%	26,770	31.9%
Army 6.2 - Command Control Communications	49,093	22,215	37,215	-11,878	-24.2%	15,000	67.5%
Army 6.2 - Computer and Software Tech	6,794	5,368	9,868	3,074	45.2%	4,500	83.8%
Navy - URI	92,702	76,637	100,637	7,935	8.6%	24,000	31.3%
Navy - In-House Lab Independent Research	15,916	16,556	16,566	650	4.1%	10	0.1%
Navy - Defense Research Sciences	385,649	374,052	388,952	3,303	0.9%	14,900	4.0%
AF - Defense Research Sciences	262,232	256,259	274,359	12,127	4.6%	18,100	7.1%
AF - URI	115,471	104,304	120,704	5,233	4.5%	16,400	15.7%
AF - High Energy Laser Research Initiatives	12,403	12,636	12,636	233	1.9%	0	0.0%
AF 6.2 - Command Control and Communications	123,367	116,705	122,205	-1,162	-0.9%	5,500	4.7%
DefWide - DTRA Uni Strategic Partnership	10,000	5,000	10,900	900	9.0%	5,900	118.0%
DefWide - Defense Research Sciences	145,790	0	176,115	30,325	20.8%	176,115	#DIV/0!
DefWide - GICUR	9,200	0	6,200	-3,000	-32.6%	6,200	#DIV/0!
DefWide - Nat Def Ed Program	19,532	44,372	44,372	24,840	127.2%	0	0.0%
DefWide 6.2 - Info and Communications Tech**	234,952	229,739	231,859	-3,093	-1.3%	2,120	0.9%
DefWide 6.2 - Cognitive Computing**	180,685	179,728	175,797	-4,888	-2.7%	-3,931	-2.2%
DARPA	3,115,310	3,085,617	2,979,808	-135,502	-4.3%	-105,809	-3.4%
FOCUS Center Research Program			18,000+				
** Received Execution Adjustments of $2 million (ICT) and $3 million (COG)			+ The FOCUS Center Program is funded at $8 million above the request				

Professional Opportunities

CRN Advertising Policy

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

Angelo State University

Computer Science Department

Tenure-Track Position

The Computer Science Department seeks applications for a nine-month, 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:

http://www.angelo.edu/publications/employment/documents/0810-025.pdf

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 (CSSE) 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 candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin 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@eng.auburn.edu
(with copy to mccorba@auburn.edu)
334-844-6300 (Voice)

The applicant review process will begin January 15, 2008. Detailed announcement of this position can be found at:

http://www.eng.auburn.edu/csse/

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 mathematical sciences with a willingness to teach courses in computer science is required. A strong commitment to teaching is essential. Responsibilities center on mathematics and computer science teaching ranging from introductory to advanced undergraduate. Above all we are seeking candidates who can achieve excellence in 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 excitement and vitality of their growth through 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 James Blackburn-Lynch
Chair, Mathematics and Computer Science Department
CPO 2146
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 equality, welcomes all people of the earth 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 where innovative, interdisciplinary, and foundational research is conducted in a collegial atmosphere. We are looking for candidates in 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-quality 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. Exceptionally well-qualified applicants may also be considered at the associate or full professor level.

To ensure the fullest 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 on-line, please visit:

http://www.cs.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

Instructorship 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 PhD. The position may also be suitable for more senior researchers interested in a visiting (e.g. sabbatical) position. Initial appointments are for one year and are renewable for a second.

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

All materials should be received by January 18, 2008.

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

Carnegie Mellon

Human-Computer Interaction Institute

Tenure-Track Faculty Positions

Our world-class interdisciplinary Human-Computer Interaction Institute at Carnegie Mellon University (www.hcii.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 level.

Learning Science 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 social 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.

Indicate your U.S. citizenship or describe your current visa status.

Please send to Faculty Search Committee:

hcii_facultysearch@cs.cmu.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 Electrical Engineering and Computer Science

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 Biomedical Informatics and Computational Biology, Information Networks, Smart Power Systems/Power Informatics, and Safe, Secure, and Reliable Software. Also, to support these thrust areas, we invite applicants in knowledge and data management, data mining, information retrieval, computer graphics and visualization, artificial intelligence, machine learning, computer networks, distributed systems, software engineering, computer security, human-computer interaction, and algorithms.

See www.eecs.case.edu for more details.

Please submit CV, research and teaching interest statements, and three recommendation letters to:

Faculty Search Committee
Division of Computer Science
Department of Electrical Engineering and Computer Science
Case Western Reserve University
10900 Euclid Avenue
Cleveland, OH 44106-7071

In employment as in education, Case is committed to affirmative action and equal opportunity. 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. Colorado School of Mines is located in Golden, Colorado, in the foothills of the Rockies, 13 miles west of Denver and 21 miles south of Boulder.

Applicants with an earned Ph.D. in Computer Science or a closely related field with research interests in high performance computing are encouraged to apply. More information about the

(continued)

OSWEGO
STATE UNIVERSITY OF NEW YORK

ASSISTANT PROFESSOR OF SOFTWARE ENGINEERING

Department of Computer Science

SUNY Oswego invites applications for a tenure track position as Assistant Professor in Software Engineering in 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 diverse academic community, and 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

department can be obtained from: http://www.mines.edu/Academic/macs

Interested individuals are asked to visit our web page to obtain a complete job announcement and further information on how to apply: http://www.is.mines.edu/hr/Faculty_Jobs.shtm

CSM is an EEO/AA employer.

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 and 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 34 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, IBM (T.J. Watson), NEC, Siemens, Telcordia Technologies and Verizon, as well as to a number of major companies.

Columbia University is one of the leading research universities in the United States, and New York City is one of the cultural, financial, and communications capitals of the world. Columbia's tree-lined campus is located in Morningside Heights on the Upper West Side.

Applicants should 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/facultyrecruit

Review of applications will begin on January 1, 2008.

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

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

New York, NY & Cupertino, CA

Software Developer Positions

The D. E. Shaw group is looking for top-notch, innovative software developers to help it expand its tech venture and proprietary trading activities. We're a global investment and technology development firm with approximately US $35 billion in aggregate investment capital and a decidedly different approach to doing business.

The application of advanced technology is an integral part of virtually everything we do, from developing computationally intensive strategies for trading in securities markets around the globe to designing a supercomputer intended to fundamentally transform the process of drug discovery. Developers at the firm work on a variety of interesting technical projects including real-time data analysis, distributed system development, and the creation of tools for mathematical modeling. They also enjoy access to some of the most advanced computing resources in the world.

If you're interested in applying your intellect to challenging problems of software architecture and engineering in a stimulating, fast-paced environment, then we'd love to see your resume.

To apply, e-mail your resume to:
mailto:CRA-Prog@career.deshaw.com
EOE

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 MULTI-AGENT SYSTEMS, although exceptional applicants in other areas will be considered. The department has expanding graduate research and education programs in software engineering, graphics and vision, information assurance and security, human-computer interaction, and scientific computing. We specialize in interdisciplinary and applied research and are supported by several major federal research grants from NSF, DARPA, ONR, DoD, DoE and NIST, as well as by private sources such as Nissan, NTT, and Lockheed Martin.

The department offers BS, BA, MS, and Ph.D. degrees in computer science as well as BS and MS degrees in software engineering. Drexel is a designated National Security Agency (NSA) Center of Academic Excellence in Information Assurance Education. The department has over 600 undergraduate and over 100 graduate students, with annual research expenditures in excess of $4M. Several of the Computer Science faculty are recipients of NSF CAREER or Young Investigator Awards.

Review of applications begins immediately. To assure consideration materials from applicants should be received by February 1, 2008. Successful applicants must demonstrate potential for research and teaching excellence in the environment of a major research university.

To be considered, please send an email to:

cs-search-08@cs.drexel.edu

Please include a cover letter, CV, brief statements describing your research program and teaching philosophy, and contact information for at least four references. Electronic submissions in PDF format are strongly preferred.

Drexel University

College of Information Science & Technology

Tenure-Track & Non-Tenure Track Positions

Drexel University's College of Information Science and Technology (IST) invites applications for multiple tenure-track and non-tenure-track positions in Library and Information Science, 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 a related field
- Evidence of excellence in teaching and/or research
- Interest in a highly collaborative faculty environment

The IST view of information is broad, multidisciplinary, and practical. IST continues to evolve as an innovative leader in educating information professionals in the twenty-first century, combining high quality teaching and research in a broad, multidisciplinary, and collaborative environment. We offer three BS degrees, three Masters degrees, and the PhD. The MS (LIS) degree is highly ranked, both overall and for specializations in information systems and digital librarianship within the MS (LIS) 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 while performing other research or teaching related activities in the College.

All programs emphasize applied research, with a tradition of both quantitative and qualitative research that encourages interdisciplinary activity. We consider experience in industry a plus.

Drexel is a privately endowed technology university founded in 1891. With approximately 20,000 students, it has one of the largest undergraduate cooperative education programs in the nation, with formal relationships in place with over 1500 local, national, and multi-national companies. Drexel is located on Philadelphia's Avenue of Technology in University City and at the hub of the academic, cultural, and historical resources of the nation's fourth largest metropolitan region. Philadelphia is also the midpoint of a mid-Atlantic technology corridor that stretches from New York City (100 miles north) to Washington, DC (135 miles south).

Please submit a letter of application, curriculum vitae, and names and contact information of at least three references to:

Dr. Denise E. Agosto
Chair IST Search Committee
College of Information Science & Technology
Drexel University
3141 Chestnut Street
Philadelphia, PA 19104
E-mail: faculty-search@ischool.drexel.edu

Review of applications will begin immediately and will continue until the positions are filled.

Drexel is an Equal Opportunity/Affirmative Action Employer and encourages applications from women, members of minority groups, disabled individuals and veterans.

Members of the Search Committee will be available at the ASIST and ALISE annual and mid-winter meetings to discuss these open faculty positions.

Duke University

System Biology Department

Tenure-Track Positions

Duke University seeks applications for open rank, tenure track positions in the broad field of cellular systems biology. We seek applicants from both experimental and quantitative/computational disciplines with research interests in the molecular bases of cellular function, development, and evolution. These new appointments will substantially enhance existing Duke strengths in experimental and modeling approaches to understanding the complexity of genetic, metabolic, and signaling networks. Successful applicants will have appointments in one or more Duke departments based on mutual interests. All appointees will be affiliated with the Duke Center for Systems Biology, a cross-school, campus-wide academic center that is also one of the NIH-supported National Systems Biology Centers.

Applicants should submit a curriculum vitae, a brief summary of current and proposed research, reprints of 2 or 3 key publications and a statement of teaching interests via the web at:

www.academicjobsonline.org

Junior candidates should arrange for three letters of recommendation to be uploaded to this website or sent directly to:

Systems Biology Search
Duke University
Box 90338
Durham, NC 27708-0338

Senior candidates should give the names of three potential referees. Application review will begin on December 1, 2007, and continue until the positions are filled.

Duke University is an Equal Opportunity/Affirmative Action Employer; women and members of minority groups are strongly encouraged to apply.

Duke University

Department of Computer Science

Faculty Positions

The Department of Computer Science at Duke University invites applications and nominations for faculty positions at all levels, to begin August 2008. We are interested in strong candidates in all active research areas of computer science, both core and interdisciplinary areas, including distributed systems, computer architecture, networking, security, database systems, algorithms, artificial intelligence, machine learning, image analysis, and computer vision.

The department is committed to increasing the diversity of its faculty, and we strongly encourage applications from women and minority candidates.

A successful candidate must have a solid disciplinary foundation and demonstrate promise of outstanding scholarship in every respect, including research and teaching.

Please refer to: www.cs.duke.edu for information about the department.

Applications should be submitted online at:

www.cs.duke.edu/facsearch

A Ph.D. in computer science or related area is required. To guarantee full consideration, applications and letters of reference should be received by January 7, 2008.

Durham, Chapel Hill, and the Research Triangle of North Carolina are thriving, family-friendly communities. Duke and the many other universities in the area offer a wealth of education and employment opportunities for spouses and families.

Duke University is an affirmative action, equal opportunity employer.

CHAIR
Computer Science and Engineering
University of Michigan, Ann Arbor

The newly restructured Division of Computer Science and Engineering (CSE) in the College of Engineering at the University of Michigan is seeking an inaugural Chair. In recognition of its increasing prominence in the College's broader education and research missions, the Division's administrative autonomy and profile have recently been raised to match other College departments, providing the new Chair with an unprecedented opportunity to lead a strong CSE program into a new era.

In this time of transition and opportunity for CSE, a successful Chair candidate must have outstanding leadership, collaborative and administrative abilities and be an outstanding scholar. The candidate should possess a compelling vision for the future of CSE research and education, should be able to work with a diverse group of faculty, staff, students and administrators to articulate and achieve common goals in pursuit of this vision and should be able to marshal support from alumni and industry in these endeavors. He or she should have an exemplary record of achievement in research, teaching and service commensurate with appointment as a tenured full professor.

Please see www.eecs.umich.edu/eecs/cse/csechair.html for further information. Inquiries, nominations and applications can be sent to CSEChair@umich.edu.

The University of Michigan is an Equal Opportunity Affirmative Action Employer. Individuals from under-represented groups are encouraged to apply.

Professional Opportunities

Florida International University

School of Computing and Information Sciences

Tenure-Track or Tenured Faculty Positions

Applications are invited for multiple tenure-track or tenured faculty positions at the levels of Assistant, Associate, or Full Professor. A Ph.D. in Computer Science or related areas is required.

Outstanding candidates are sought in areas of:

(1) Software and Computer Security;

(2) Software and Computer Systems;

(3) Bio/Medical/Health Informatics;

(4) Data Mining; and (5) Human-Computer Interface (HCI).

Exceptional candidates in other areas will be considered as well. Candidates with the ability to forge interdisciplinary collaborations will be favored. Candidates for senior positions must have a proven record of excellence in research funding, publications, teaching, and professional service, as well as demonstrated ability for developing and leading collaborative research projects. Outstanding 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 graduate and undergraduate 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 in 21 colleges and schools. With over 38,000 students, it 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. US News & World Report has ranked FIU among the top 100 public universities, and Kiplinger's Personal Finance magazine ranked FIU among the best values in public higher education in the country in their 2006 survey.

The School of Computing and Information Sciences (SCIS) is a rapidly growing program of excellence at the University. The School has 31 faculty members (including seven new faculty members hired in the last three years), 1,200 students, and offers B.S., M.S., and Ph.D. degrees in Computer Science and B.S. and B.A. degrees in Information Technology. Its undergraduate program is the largest among the ten state universities in Florida and SCIS is the largest producer of Hispanic CS and IT graduates in the US. The Ph.D. enrollment in the School has doubled in the last four years with around 80 enrolled Ph.D. students.

In 2006-07, the School received $2.7M in competitive research grants and leads the similar programs in the State of Florida in terms of per faculty annual research funding. In addition, the school receives an annual average of $2.2M of in-kind grants and donations from industry. Its research has been sponsored by NSF, NASA, NIH, ARO, ONR, NOAA, and other federal agencies. Several new faculty members have received the prestigious NSF CAREER AWARD, DoE CAREER AWARD, and IBM Faculty Research Awards. SCIS has broad and dynamic partnerships with industry. Its research groups include the NSF CREST Center for Emerging Technologies for Advanced Information Processing and High-Confidence Systems, the High Performance Database Research Center, the Center for Advanced Distributed Systems Engineering, the IBM Center for Autonomic and Grid Computing, and other research laboratories.

The SCIS has excellent computing infrastructure and technology support. In addition, the SCIS faculty and students have access to the grid computing infrastructure with 1000 nodes under the Latin American Grid (LA Grid) Consortium (http://lagrid.fiu.edu), a first ever comprehensive international partnership, co-founded by IBM and FIU, linking institutions in the US, Latin America, and Spain for collaborative research, innovation and workforce development.

Applications, including a letter of interest, contact information, curriculum vitae, and the names of at least three references, should be sent to:

Chair of Recruitment Committee
School of Computing and Information Sciences
Florida International University
University Park, Miami, FL 33199

E-mail submission to recruit@cis.fiu.edu is preferred.

The application review process will begin on January 15, 2008, and will continue until the positions are filled.

Further information can be obtained from the School website:

http://www.cis.fiu.edu, or by e-mail to recruit@cis.fiu.edu.

Women and members of under-represented groups are strongly encouraged to apply. Florida International University is a member of the State University System of Florida and is an equal opportunity/affirmative action/equal access employer.

Gatsby Computational Neuroscience Unit

Gatsby Unit

Postdoctoral Training Fellowship

The Gatsby Unit invites applications for a postdoctoral training 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, harmonic analysis and algebraic geometry.

The Unit is a 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.

For further information, please see:

http://www.gatsby.ucl.ac.uk/vacancies/

Closing date: 20 January 2008

George Mason University

The Volgenau School of Information Technology and Engineering

Tenure-Track Positions

The Volgenau School of Information Technology and Engineering at George Mason University is building a program in bioengineering, including computational approaches to biology. As part of this multidisciplinary initiative, tenure track openings are available at the Assistant, Associate and Full Professor levels in the School.

Background, experience, and interest will determine the departmental affiliation of successful applicants. Within this initiative, the Department of Computer Science is seeking faculty members who can establish strong research and teaching programs in the area of computational biology, bioinformatics, and biometrics. Minimum qualifications include a Ph.D. in Computer Science, Bioinformatics, or a closely related field, demonstrated potential for excellence and productivity in research applying computational approaches to address fundamental questions in biology or medicine, and a commitment to high quality teaching. Candidates for a senior position must have a strong record of external research support.

The School has more than 100 full-time faculty members, with over 40 in the CS Department. The research interests of the CS department includes artificial intelligence, algorithms, computational biology and bioinformatics, computer graphics, computer vision, databases, data mining, image processing, security, knowledge engineering, parallel and distributed systems, performance evaluation, real-time systems, robotics, software engineering, visualization, and wireless and mobile computing.

The department has several collaborative research and teaching activities in computational biology and bioinformatics with other Mason units.

For more information, visit our Web site:

http://cs.gmu.edu/

For full consideration please submit application and application materials on-line at:

http://jobs.gmu.edu (position number F9086z)

To apply online you will need a statement of professional goals including your perspective on teaching and research, a complete CV with publications, and the names of four references. The review of applications will begin immediately and will continue until the positions are filled.

George Mason University is a growing, innovative, entrepreneurial institution with national distinction in several academic fields. Enrollment is 30,000, with students studying in over 100 degree programs on four campuses in the greater Washington, DC area. Potential interactions with government agencies, industry, medical institutions, and other universities abound.

GMU is an equal opportunity/affirmative action employer that encourages diversity.

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 strong research and teaching programs in the area of computer game development. Applicants must have a research focus in an area in computer games technology – for example, in artificial intelligence, computer graphics, real-time animation, simulation and modeling, distributed and multi-agent systems, or software engineering, as applied to computer games. Minimum qualifications include a Ph.D. in Computer Science or a related field, demonstrated potential for excellence and productivity in research, and a commitment to high quality teaching.

The department currently offers a graduate certificate in Computer Games Technology, and is adding a concentration in Computer Game Design to its 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 on 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 including artificial intelligence, 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, DC, and home to one of the highest concentrations of high-tech firms in the nation. There are excellent opportunities for interaction with government agencies and industry, including many game and "serious game" development companies. In particular, the Washington DC region is

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ROBOTICS ENGINEERING PROGRAM TENURE TRACK FACULTY POSITION STARTING AUGUST 2008

Do you want the combination of a research university with an innovative educational institution? Do you like engaging undergraduates together with graduates in long-term, open-ended projects? Would you enjoy doing interdisciplinary research, experiencing the interplay between technology and society, and helping students apply their technical skills in global settings? Would you like to help lead a new program in Robotics?

If so, you should consider joining the faculty at WPI!

The Robotics Engineering Program, a collaborative venture by the Computer Science, Electrical & Computer Engineering, and Mechanical Engineering Departments, holds a unique position as the only undergraduate Robotics B.S. degree program in the U.S. Started in Fall 2007, the Program comprises over 20 associated faculty and staff. To support the program's growth, we are looking for a tenure-track faculty member at the assistant or associate professor level for the Fall of 2008 in any of the contributing departments. Candidates should have a PhD in a relevant field and the potential for excellence in research and teaching. We expect to maintain the exceptionally close-knit, collaborative, and collegial atmosphere we currently enjoy. Faculty research is funded by federal agencies (such as NSF, NIH, NSA, ONR, and DARPA) and industrial collaborators.

Please refer to our web site at **http://robotics.wpi.edu/** for more information.

WPI is an elite national university with an enrollment of 3,800, including 1000 graduate students. It has a core focus on engineering, science and the management of technology, and grants degrees in more than 30 disciplines. WPI's acclaimed and long-standing project-based undergraduate curriculum is singled out by professional societies as a model program. That curriculum, combined with a significant graduate program, offers faculty a unique balance between research and teaching.

WPI is in Worcester, Massachusetts, the second largest city in Massachusetts and the third largest in New England. It is approximately one hour from both Boston and Providence; cultural and recreational resources abound in the region. The UMass Medical Center and large number of technology companies, colleges, and universities in the immediate area make the location ideal for dual career families.

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

To enrich education through diversity, WPI is an affirmative action, equal opportunity employer.

A Member of Colleges of Worcester Consortium

Worcester Polytechnic Institute

Professional Opportunities

fast becoming a hub for the serious games industry. Fairfax is consistently rated as being among the best places to live in the country, and has an outstanding local public school system.

For full consideration please submit application and application materials online at:

http://jobs.gmu.edu (position number F9084z)

To apply, you will need a statement of professional goals including your perspective on teaching and research, a complete C.V. with publications, and the names of four references. The review of applications will begin immediately and will continue until the position is filled.

GMU is an equal opportunity/affirmative action employer. Women and minorities are strongly encouraged to apply.

George Washington University

Department of Computer Science

Tenure-track Faculty Position

The Department of Computer Science of The George Washington University is seeking qualified applicants for a tenure-track faculty position at the rank of Assistant Professor in the area of computer and network security, beginning September 2008. Additional information on qualifications and details on the application procedure are available on the Department's website:

www.cs.gwu.edu

The George Washington University is an Equal Opportunity/Affirmative Action employer.

George Washington University

Department of Electrical & Computer Engineering

Faculty Positions

The Department of Electrical and Computer Engineering at The George Washington University invites applications for tenure-track, tenured and contractual non-tenure-accruing faculty positions at all ranks, in the area of Computer Engineering. Two positions will be for tenure-track/tenured faculty, and the third position will be a one-year renewable non-tenure-accruing contractual position at the Assistant/Associate Professor rank, and successful candidates may start as early as Spring 2008. Faculty with research in High-Performance Computing and Reconfigurable Computing are particularly encouraged to apply, however, all areas of Computer Engineering will be considered.

Additional information and details on position qualifications and the application procedure are available on:

http://www.ece.gwu.edu

Review of applications will continue until the positions are filled.

The George Washington University is an Equal Opportunity/Affirmative Action Employer

Georgia Institute of Technology

School of Computer Science, College of Computing

Tenure-Track Faculty Positions

The School of Computer Science at the Georgia Institute of Technology invites applications for tenure-track faculty positions. Applications at all levels of service will be considered. Applicants must have an outstanding record of research, a sincere commitment to teaching, and interest in engaging in substantive interdisciplinary research.

The School of Computer Science is part of Georgia Tech's College of Computing. With over 40 faculty members, research in the school covers a broad range of areas, including: computer architecture, databases, distributed and embedded systems, enterprise computing, high-performance computing, information security, networking, operating systems, programming languages and compilers, theory, and software engineering. Excellent applications in all areas of computer science represented by the School are invited.

The school incorporates a number of research centers including: the Center for Experimental Research in Computer Systems, the Georgia Tech Information Security Center, and the Algorithms and Randomness Center. These centers support a wide variety of focused and collaborative research projects spanning multiple academic units on campus. Applications from candidates with an interdisciplinary research focus and interest in potential joint appoints are welcome.

Reviews of submitted applications will begin December 15, 2007. Full consideration will be given to those who apply by January 15, 2008.

We strongly encourage application cover letters and materials be submitted online by going to:

https://recruiting.cc.gatech.edu or by e-mail to recruiting-cs@cc.gatech.edu

If done by email, the cover letter must include a URL pointing to application materials in PDF. The application material should include a full academic CV, teaching and research statements, a list of at least three references and up to three publications. Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their research interests.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer.

Applications from women and under-represented minorities are strongly encouraged.

https://recruiting.cc.gatech.edu/ic

Georgia Institute of Technology

School of Interactive Computing

Tenure-Track Faculty Positions

The School of Interactive Computing (IC) within the College of Computing at the Georgia Institute of Technology invites applications for tenure-track faculty positions. Applications at all levels of seniority will be considered. Applicants must have an outstanding record of research (or clear potential thereof), a sincere commitment to teaching, and interest in engaging in substantive interdisciplinary research. All areas of research within IC are of interest for potential applicants. Reviews of submitted applications begin December 15, 2007.

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

The full position announcement and information on how to apply can be found at:

https://recruiting.cc.gatech.edu/ic

Georgia Institute of Technology

Computational Science and Engineering Division

Tenure-Track Faculty Position

The Computational Science and Engineering division within the College of Computing at the Georgia Institute of Technology invites applications for tenure-track faculty positions. Applications at all levels of service will be considered. Applicants must have an outstanding record of research, a sincere commitment to teaching, and interest in engaging in substantive interdisciplinary research with collaborators in other disciplines. We encourage applications from any areas of computational science and engineering. Applicants with expertise in high-performance computing (HPC), modeling, simulation and numerical computing, bioinformatics and computational biology, and large-scale data analysis and visualization are especially encouraged to apply.

To receive full consideration, applications should be submitted online through:

https://recruiting.cc.gatech.edu/cse by January 11, 2008.

The application material should include a full academic CV, teaching and research statements, a list of at least three references and up to three publications. Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their research interests.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer. Applications from women and under-represented minorities are strongly encouraged.

UCL

UCL Department of Computer Science

2 Faculty Positions

The Department of Computer Science at University College London (UCL) seeks applications for two faculty positions in the areas of networks, systems and ubiquitous computing, at the rank of Lecturer, Senior Lecturer, or Reader (the first equivalent to Assistant Professor and the latter two equivalent to Associate Professor in the US system), commensurate with qualifications. Areas of interest include network protocols, network architectures, wireless networks, mobile and ubiquitous systems, defences against network attacks, distributed systems, computer system security, and operating systems, all with an emphasis on experimental system-building.

Applicants must hold an earned PhD in Computer Science or a closely related field by the time they begin their appointment. They will be evaluated chiefly on the significance and novelty of their research to date, and their promise for leading a group in a fruitful programme of research. They must also demonstrate an enthusiasm for teaching at the graduate and undergraduate levels.

Further details about UCL CS, the posts, and how to apply may be found at:

http://www.cs.ucl.ac.uk/vacancies

All application materials must reach UCL by the 15th of January, 2008.

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

Gwangju Institute of Science and Technology (GIST)

Department of Information and Communications

Faculty Positions

The Department of Information and Communications at the Gwangju Institute of Science and Technology (GIST) invites applications from the outstanding candidates for several faculty positions in all ranks. Level of appointment will be commensurate with the qualifications and experience. Applicants with outstanding research credentials will be considered at a senior level position.

The department is looking for candidates who can drive new research initiatives in all areas of information and communication engineering: communication systems and computer networks, photonics, semiconductors and high speed electronics, signal processing, and computer science and engineering.

More detailed information is available at http://infcom.gist.ac.kr/openings.html.

The successful candidates must have demonstrated excellence in research and teaching at the graduate level, and have the ability to independently lead research programs and to supervise graduate students in their respective fields of research interest. A Ph.D. qualification in Electrical Engineering, Computer Engineering or a closely related discipline is required for the appointment. The successful candidates will be strongly supported through an excellent start-up package to establish their research laboratories. The department also offers opportunities for participation in the ongoing research activities and educational programs.

GIST is a research-oriented graduate school established by the Korean government in 1993. The Korea Ministry of Science and Technology provides full financial support to students in order to produce world-class scientific and technologists with exceptional leadership skills. In its short 14-year-old history, GIST has been recognized as a leading research institute for science and technology through its outstanding research achievements and successful globalization of its image as an advanced educational institution.

Applications are accepted on a quarterly basis, and will be considered until the positions are filled. Please submit an application electronically to:

academy@gist.ac.kr

or by regular post to:

Section of Academic Affairs
Gwangju Institute of Science and Technology
1 Oryong-dong, Buk-gu Gwangju, 500-712
Republic of Korea

The application form can be downloaded from:
http://www.gist.ac.kr/english

For further information please contact the search committee:
openings@infcom.gist.ac.kr

Harvard University

Computer Science Department

Faculty Positions

Over the past several years, Harvard's Computer Science faculty has doubled in size, moved into a state-of-the-art teaching

Professional Opportunities

and research facility, and made a serious commitment to fostering collaboration with other academic disciplines. The Computer Science program benefits from its outstanding undergraduate and graduate students, an excellent location, significant industrial collaboration, and substantial support from the Harvard School of Engineering and Applied Sciences.

We invite applications for faculty positions within Computer Science, and strongly encourage applications from qualified women and minorities. We seek outstanding applicants from all areas of Computer Science at the junior (assistant professor) level to begin in the fall semester of 2008.

Candidates should have an outstanding research record and a strong commitment to undergraduate teaching and graduate training. Applicants must have completed a Ph.D. by September 1, 2008. Information about Harvard's current faculty, research, and educational programs is available at:

http://www.seas.harvard.edu/research/computerscience.html

Candidates should send a curriculum vitae, a list of publications, a statement of research and teaching interests, and up to three representative papers (ideally as a single PDF document) to the following email address:

cs-search@seas.harvard.edu

In addition, candidates should have at least three letters of reference sent to the above address. Alternatively, material may be sent via surface mail to:

CS Search Committee
School of Engineering and Applied Sciences
Harvard University
Maxwell Dworkin 143
33 Oxford Street
Cambridge, MA 02138

Applications will be reviewed as they are received. For full consideration, applications should be received by January 31, 2008.

Harvard is an Equal Opportunity/Affirmative Action employer.

IBM Almaden Research Center

Computer Science Department

Research Staff Member and Postdoctoral Scholar Positions

The Computer Science Department at the IBM Almaden Research Center (ARC) has openings for both Research Staff Member and Postdoctoral Scholar positions. We seek outstanding researchers with expertise and interests closely aligned with the activities of the Department.

IBM ARC is located in San Jose, California. Over 100 permanent members, postdoctoral scholars, and academic visitors in the Computer Science Department pursue research in four closely interacting areas:

Principles & Methodologies http://www.almaden.ibm.com/cs/disciplines/pm

Information Management http://www.almaden.ibm.com/cs/disciplines/im

Healthcare Informatics http://www.almaden.ibm.com/cs/disciplines/hc/

User-focused Systems http://www.almaden.ibm.com/cs/disciplines/user/

We pursue a mix of medium-term to long-term exploratory research with the potential for disruptive technology and significant business impact. We measure our success by our strong publication record and our impact on IBM's business and the world. Our researchers are respected members of their scientific communities and collaborate extensively with universities. For more information, visit:

http://www.almaden.ibm.com/cs/

Qualified candidates should send, preferably by January 31, 2008, a cover letter to:

csjobs@almaden.ibm.com

containing the following information: the position(s) (research staff member and/or postdoctoral scholar) they are applying for; which of the above four areas they are interested in; curriculum vitae, and names and contact information of at least three references.

IBM is an equal opportunity employer committed to creating a diverse work environment.

Indiana Purdue University Fort Wayne

Department of Computer Science

Chair Position

Indiana University Purdue University Fort Wayne (IPFW) invites applications for the position of Chair of Computer Science to begin on July 1, 2008.

Candidates must have a doctorate in Computer Science or a closely related field, a reputation for academic and research excellence necessary for appointment as a tenured professor, demonstrated leadership skills, management or supervisory experience, and a strong interest in working with students and the community. Responsibilities will include modeling and promoting excellence in teaching, research, and service, department administration, mentoring faculty, and collaborating with the community and industry.

IPFW is a regional campus of both Indiana University and Purdue University. It is the largest public university in northeast Indiana, serving more than 12,000 students. The Computer Science Department has 10 full-time faculty with approximately 250 undergraduate and 50 graduate students. Degrees offered include M.S. in Applied Computer Science, B.S. in Computer Science, and B.S. in Information Systems. An Informatics minor has recently been established. The B.S. program in Computer Science is accredited by CAC/ABET.

University of Massachusetts UMASS Boston

Careers with **Mass Appeal**

Assistant Professor

Department of Computer Science

www.cs.umb.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, an MS with an emphasis on software engineering, and a Ph.D. in computer science. We seek to strengthen our research program significantly. Current faculty interests include biodiversity informatics, computer and human vision, data mining, databases, networks, software engineering, system modeling, and theoretical computer science.

Strong candidates will be considered from any area of Computer Science, but preference will be given to a candidate who does research in artificial intelligence, particularly evolutionary computing, knowledge representation, machine learning or neural networks. Evidence of significant research potential and a Ph.D. in computer science or a related area are required. We offer a competitive salary and a generous start-up package. **Send cover letter, curriculum vitae, statements about research and teaching, and the names and email addresses of three references to Search 680E at search@cs.umb.edu.**

Our campus overlooks Boston harbor; our faculty and students enjoy professional life in a center of academia and the software industry. For more information, visit us at http://www.cs.umb.edu.

Review of applications has begun and will continue until the position is filled.

UMass Boston is an affirmative action, equal opportunity Title IX employer.

IPFW offers a competitive salary and benefits package and an excellent work environment. Fort Wayne is the second largest city in Indiana and is located within several hours of Chicago, Columbus, Cincinnati, Detroit, and Indianapolis. It boasts affordable 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 email to: cs.chairsearch@omega.ipfw.edu

IPFW is an Equal Opportunity/Equal Access/Affirmative Action Employer.

http://www.cs.ipfw.edu/

Indiana University

School of Informatics

Tenured Faculty Leadership 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 scholarly publication record, demonstrated success in attracting competitive funding from the NSF and other sources, a commitment to teaching and mentoring, 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 Internet2 and numerous transatlantic and transpacific research networks. In 2007, Indiana University was designated a National Center of Academic Excellence in Information Assurance Education.

The complete position description is available at:

http://cacr.iu.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:

infosear@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.

Indiana University

Center for Data and Search Informatics

Postdoctoral Fellow Position

The Center for Data and Search Informatics at Indiana University has an active program with research in areas including Internet modeling, recommender systems, information retrieval, human interaction, provenance and metadata, and workflow systems.

The center is seeking a postdoctoral fellow to work on projects related to data provenance in cyberinfrastructure (or "e-Science") environments. This work is in collaboration with faculty in artificial intelligence, information visualization, the IU Digital Libraries Program, and industry participants. The candidate must have a PhD and have expertise in the area of metadata, provenance, workflow systems, and/or semantic web. Experience in empirical system evaluation is needed, as are demonstrated strong writing skills.

Initial appointment as a postdoctoral fellow will be for one year with possible renewal for an additional 2-3 years. A PhD in computer science or a closely related field is required. Applications for the postdoctoral position are accepted on a continuing basis and starting dates can be adjusted, however, a starting date of January 2008 is ideal.

Send curriculum vita and contact information for three references to:

Professor Beth Plale
Department of Computer Science
215 Lindley Hall
Bloomington, IN 47405-7104
fax: 812-855-4829
e-mail: plale@indiana.edu

Indiana University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

Iowa State University

Department of Computer Science

Tenure-Track Position

The Department of Computer Science at Iowa State University is seeking outstanding candidates to fill a tenure-track position, to commence in August, 2008. We are especially interested in applicants at the assistant professor level in Programming Languages and/or Software Engineering. Successful candidates will have demonstrated potential for outstanding research and instruction in computer science. A Ph.D. or equivalent in Computer Science or a closely related field is required.

Our department currently consists of 27 full-time tenure-track faculty members. We offer B.S., M.S., and Ph.D. degrees in Computer Science and participate in new B.S. degrees in Software Engineering and in Bioinformatics and Computational Biology. We also participate in interdepartmental graduate programs in Bioinformatics and Computational Biology, Human-Computer Interactions, and Information Assurance. We have about 330 B.S. students, 60 M.S. students, and 110 Ph.D. students. Almost all graduate students are supported by research or teaching assistantships.

We have strong research and educational programs in Algorithms and Complexity, Artificial Intelligence, Bioinformatics and Computational Biology, Databases, Data Mining, Information Assurance, Programming Languages, Multimedia Systems, Operating Systems and Networks, Robotics, and Software Engineering. Our department has over $6.5 million in active research grants. With the above interdisciplinary activities included, we contribute to active research and training grants totaling approximately $20 million.

A dynamic faculty, a moderate teaching load (typically 3 courses per year with one course reduction for active researchers and possible further reductions for junior faculty), a strong graduate program, and a well-funded research program provide an excellent academic environment. In addition, cutting-edge research and education are nurtured through interdisciplinary interactions facilitated by the Laurence H. Baker Center for Bioinformatics and Biological Statistics, the Center for Computational Intelligence, Learning and Discovery, the Center for Integrative Animal Genomics, the Cyber Innovation Institute, the Information Assurance Center, the Department of Energy's Ames Laboratory, and the Virtual Reality Application Center.

Iowa State University is a major land-grant university located in Ames, Iowa. It is a pleasant, small, cosmopolitan city with a population of over 50,000 (including about 27,000 students), a vibrant cultural scene, an excellent medical clinic, and

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Professional Opportunities

a secondary school system that ranks among the best in the United States. Ames is frequently ranked among the best communities to live in North America: 20th nationally among best places to live (2002), 3rd nationally in terms of highly educated workforce for knowledge-based industry (2005), 12th nationally for its public schools (2006).

Applicants should send a curriculum vita, including teaching and research statements and the names and addresses of at least three references, to:

Chair of Search Committee
Department of Computer Science
Iowa State University
Ames, Iowa 50011-1041
E-mail: faculty-search@cs.iastate.edu
Web: www.cs.iastate.edu
Tel: 515-294-4377
Fax: 515-294-0258

Review of applications will begin on December 1, 2007 and will continue until the position is filled.

Iowa State University is an equal opportunity employer. Women and members of underrepresented minorities are strongly encouraged to apply.

For more information, please visit us at:

http://www.cs.iastate.edu

Lawrence Berkeley National Laboratory

Computational Science

Postdoctoral Fellowship Position

Lawrence Berkeley National Laboratory (LBNL) 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. (or equivalent) with a strong emphasis on computing or computational science to acquire further scientific training at one of the leading facilities 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 application process.

AA/EOE www.lbl.gov

Louisiana State University

Department of Computer Science

Tenure-Track Positions

The Department of Computer Science at Louisiana State University (http://www.csc.lsu.edu/) seeks two candidates for tenure track faculty positions. Through a targeted investment by the state, the university has chosen to establish a Center for Secure CyberSpace jointly with LaTech. 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 join several existing funded interdisciplinary research programs along with major efforts such as the Louisiana Optical Network Initiative (LONI, http://www.loni.org). LONI, funded by a $40 M commitment from the state provides a 40 Gbps connection between new largescale computing resources deployed at Louisiana Research Institutes. The infrastructure includes a statewide supercomputing grid of five 112-processor IBM p5-575 supercomputers, six 528-processor Dell PowerEdge servers and a 5,760 processor central server. These resources are connected by a 40 Gbps multi-lambda fiber-optic 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 high-performance computing research. The department has active research in the areas of cyber security and network security.

Ideal Candidates should have expertise in one or more of the fields specified below:

- Internet and network security, security in sensor networks
- Cryptographic methods, threats and vulnerabilities in cyberspace (e.g., phishing, spoofing, identity thefts etc).
- High Performance Computing that leverages any of these research areas

Required Qualifications:

Ph.D in Computer Science, Electrical Engineering, Mathematics or a closely related field with a distinguished record of scholarship commensurate with experience, exceptional 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 continual basis until all positions are filled.

Louisiana State University is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

For consideration, please submit in electronic form your curriculum vitae, statement of research and teaching interests, and the names and contact information for at least three references to:

Prof. S. S. Iyengar
search1@csc.lsu.edu
Co-Chair of Center for CyberSpace Security
Dept of Computer Science
298 Coates Hall
Baton Rouge, LA 70803
(Ref #026921 & 023602)

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 Professorship in Computer Science, to begin Fall 2008. A doctorate in computer science or related area is required by the time of appointment. We seek strong candidates in all active research areas of computer science, with particular interest in visualization, computer graphics, human-computer interaction, high performance computing, creative computing and knowledge environments. For more information about the Department and its programs see:

http://www.mscs.mu.edu, or http://www.mu.edu

All applications for this position must be received through Marquette University's electronic recruiting system, which can be accessed at:

https://careers.marquette.edu/applicants/Central?quickFind=50841

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:

cscomm@mscs.mu.edu or by mail to:
Computer Science Hiring Committee
Department of Mathematics, Statistics and Computer Science
Marquette University
P.O. Box 1881
Milwaukee WI 53201-1881

Formal review of applicants will begin immediately and will continue until the position is filled with an outstanding candidate.

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

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 established records of excellence that fit within several of our university's priority areas, which include Heath, Security, Sustainability and others. Candidates in databases, graphics and visualization, medical imaging, and bioinformatics are highly desirable, but 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 pursued by the faculty. The Department presently has 25 faculty members and administers BS, MS and PhD programs. MSU enjoys a large, park-like campus with many outlying research facilities and natural areas. The greater Lansing area has approximately 450,000 residents. The local communities have excellent school systems and place 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 the address 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 before January 8, 2008.

Faculty Search Committee
Department of Computer Science and Engineering
3115 Engineering Building
Michigan State University
East Lansing, Michigan 48824-1226
search@cse.msu.edu <mailto:search@cse.msu.edu>

Microsoft Research Cambridge, United Kingdom

Computational Biology Division

Post-Doctoral Positions

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 MSRC is focused on the application and development of highly novel computational methods and tools to study, model, analyze and better understand complex biological systems. Post-doctoral 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 agenda, which has, and encourages strong collaborations with computer scientists, experimental biologists and biochemists in laboratories worldwide.

Post-doctoral positions exist to work with each of the following research groups:

Dr. Jasmin Fisher is seeking a highly motivated post-doctoral fellow who is interested in applying formal 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 formal methods and a strong interest in biology. http://research.microsoft.com/~jfisher/

Director - School of Electrical and Computer Engineering – #07616

Located in Ithaca, N.Y., Cornell University is a bold, 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.

Cornell University's College of Engineering invites nominations and applications for the position of Director of the School of Electrical and Computer Engineering. Nominations and applications of women and underrepresented minorities are especially encouraged.

Cornell University, the largest of the Ivy League institutions, has a $6B endowment, seven world class colleges, 20,000 students and world-renowned faculty. This diverse and 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 departments in the College of Engineering, the School of Electrical and Computer Engineering, is housed in Phillips Hall, Rhodes Hall, and Duffield Hall, one of the country's most sophisticated nanoscience facilities. The School benefits from a major investment in facilities, faculty, and a capital campaign with 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, rich traditions, and a vibrant and fostering environment that breaks down traditional department and discipline boundaries. The School graduated this past year 114 BS, 95 MEng, 20 MS, and 29 PhD students.

The Director is the chief academic and administrative officer of the School providing professional leadership and example with responsibility for overseeing the school governance; curriculum and program development; faculty and student recruitment, development and retention; financial and facilities management, and external relations to enhance the School's reputation and position.

The ideal candidate will possess the following characteristics:

- An earned doctorate degree in electrical or computer engineering or a related field
- A record of excellence as a scholar including outstanding research and a strong commitment to teaching
- The ability to engage faculty to develop a common vision and to successfully influence change to achieve that vision
- Demonstrated leadership and administrative effectiveness including experience in strategic planning, goal setting, fiscal management, and the attainment of organizational objectives
- Excellent communication, problem-solving, conflict management, and negotiation skills with a record of building effective relationships with faculty, staff, alumni, and industry leaders
- Demonstrated commitment to fostering an environment that supports equity and diversity
- The ability to contribute to fund raising activities by inspiring interest in, and commitment to, the School

Applications should include a cover letter, a statement that describes the candidate's interest and qualifications for the position and a curriculum vita. The position will remain open until filled. Review of materials will begin immediately and continue until the new director is selected. Nominations and applications should be sent electronically to **ecedirectorsearch@cornell.edu**

Cornell University
Cornell University is an Affirmative Action/ Equal Opportunity Employer and Educator.

http://chronicle.com/jobs/profiles/2377.htm

Professional Opportunities

Dr. Hillel Kugler is seeking a post-doctoral fellow with mathematical and computational skills to participate in developing theory and algorithms for a new set of modeling tools developed in the group, or a post-doctoral fellow with strong biological background that is interested in applying advanced modeling technology and tools for addressing key biological questions. Experimental validation is / will be conducted through collaboration with relevant collaborators worldwide. http://research.microsoft.com/~hkugler/

Dr. Andrew Phillips is looking for a post-doctoral researcher with experience in biological modeling, to help identify and understand the key mechanisms by which biological systems function. The candidate should be skilled in one or more computational formalisms and should have a strong publication record in systems biology. The candidate will be expected to work closely with experimental biologists to model and analyse a relevant biological system, and to use the results of their analysis to make key predictions that can be validated experimentally. http://research.microsoft.com/~aphillip/

These Post-doctoral fellowships are funded for 2 years and offer very competitive packages. To apply, please send a letter of application, research statement, curriculum vitae, and at least three letters of reference to the email address below. Candidates who are interested in working in a specific group should state this in their application letter. Interested candidates are also welcome to contact any of the group leaders for informal discussions before applying.

Please send applications by email to our Human Resources department:

E-mail: cambhr@microsoft.com.

Review of applications will begin on December 15.

Microsoft Research is an equal opportunities employer.

National University of Singapore

Computer Science Department

Head

The National University of Singapore (NUS) invites nominations and applications for the position of Head, Computer Science Department.

NUS (www.nus.edu.sg) has about 23500 undergraduate and 9000 graduate students from 88 countries, with close teaching-research association with 14 national-level, 16 university-level and 80 faculty-based research institutes and centres. The university's global education program has colleges in Silicon Valley, Philadelphia, Bangalore, Shanghai and Stockholm. In 2006, Newsweek's ranking of universities listed NUS as 31st globally and 3rd in Asia/Australasia.

The School of Computing is one of the 14 faculties in NUS. It has two departments: Information Systems (IS) and Computer Science (CS). The CS Department (www.comp.nus.edu.sg/cs/) has some 80 faculty members, many of whom regularly publish in prestigious conferences and journals, as well as serve on their program committees and editorial boards.

We seek a Head who can take the Department to the next level. The candidate should be an internationally-recognized researcher with credentials appropriate for a tenure-track appointment as Professor, and who has experience in technical leadership and team management.

The salary and benefits are internationally competitive. The preferred start date for this appointment is July 1, 2008. Review of applications will begin on receipt and continue until the position is filled.

To apply, please send a resume, statements on research, teaching and leadership, and five references to:

Prof. Y.C. Tay
Head Search Committee Chair
Department of Computer Science
National University of Singapore
Singapore 117590
Republic of Singapore
(Attn: SoC HR Office, E-mail: cshodrec@comp.nus.edu.sg)

NEC Laboratories America, Inc

Data Management

Research Staff Positions

The Silicon Valley branch of NEC Laboratories America, Inc., a premier research facility of NEC, has openings for research staff positions in the area of data management. Our research activities in this area aim at challenges arising from large-scale enterprise data management and leveraging of web intelligence for e-business applications, including:

- Web service integration and mashup for agile data management
- DB and IR integration for efficient access to heterogeneous data
- Analytics over large-scale stream data, such as click-streams, enterprise event streams, and sensor data)
- Data-centric middleware architectures and methods for ambient/ubiquitous information systems

Responsibilities include developing IP in the form of patents and scholarly publications in leading venues, as well as creating innovative technologies for NEC products. Members are encouraged to engage in collaborations with universities.

Qualified candidates will have:

- A Ph.D. degree in Computer Science, or related field
- Profound knowledge in data management algorithms and implementations
- Expertise in databases and data management, evidenced by papers and projects.Interested applicants should email resume to:

recruit@nec-labs.com
and reference "Cupertino-DM" in the subject line.

EOE/AA/MFDV

NEC Laboratories America, Princeton, NJ

Global Network

Research Staff Members

NEC Laboratories America (www.nec-labs.com) is the US-based facility in NEC's global network of research laboratories. Robust and Secure System Group at Princeton in New Jersey is seeking several members to work in the area of autonomic system management. The focus of the team is to create innovative technologies to simplify and automate the management of complex IT systems, fixed and mobile networks, software and services.

For research staff member (RSM) positions, candidates must have a PhD degree in CS/CE with solid background and research/publication record in related areas. For associated research staff member (ARSM) positions, candidates must have a MS degree in CS/CE with solid software development skills and experience. Candidates must be proactive in developing innovative technologies and have a "can-do" attitude.

The group engages in foundational as well as applied research in the following areas:

- Autonomic computing
- Distributed systems and networking
- Next generation data center
- IP network and service management
- Mobile network management
- Reliability, dependability and security
- QoS/QoE management and analysis
- Data mining and statistical learning
- Software reliability and testing

Expert-level skills in one or more of the above areas are required. Knowledge of information theory, signal processing, system and control theory is a plus.

For RSM consideration, please forward your resume and a research statement to:

recruit@nec-labs.com
with a reference "ASDS-RSM" in the subject line. For ARSM positions, pls. include "ASDS-ARSM" in the subject line.

New Jersey Institute of Technology

Department of Computer Science

Tenure-Track Positions

The Department of Computer Science at New Jersey Institute of Technology (NJIT) is hiring faculty for tenure track positions beginning Fall 2008. Applications are invited from candidates with research and teaching interests in:

- Networking and Security
- Bioinformatics

Applicants should have a PhD (or expect to receive one by Summer 2008) in computer science or closely related field. Applicants should have demonstrated potential for original research and a commitment to excellence in teaching. Salary is competitive and commensurate with appointment rank and qualifications.

NJIT is a public research university. The Department of Computer Science has 25 tenure/tenure track faculty and is part of the College of Computing Sciences. Departmental research interests include algorithms, bioinformatics and biomedical informatics, computer vision, databases, pervasive and mobile computing, systems and software engineering, networking, and security. The Department offers degrees in computer science at the undergraduate, Master's and PhD levels. The Department also offers undergraduate and Master's degrees in bioinformatics. The university is an equal opportunity/affirmative action/equal access employer.

NJIT is located in Newark's University Heights, a multi-institution campus shared with Rutgers University at Newark, the University of Medicine and Dentistry of New Jersey, and Science Park. NJIT's location in the NY metro-north NJ area is ideal for research collaboration. The area is home to other universities and research laboratories as well as major pharmaceutical, telecommunications, and financial companies, offering excellent opportunities for collaboration, consulting, and industry sponsored research. New Jersey enjoys a high standard of living and quality of life. Newark is minutes from New York City and close to the Jersey Shore, providing a wide range of cultural and leisure activities.

Please apply at njit.jobs and include:

- curriculum vitae
- research statement
- teaching statement
- cover letter

Please also have three letters of recommendation sent to:

faculty-search@cs.njit.edu

For more information about the Computer Science Department, visit our website:

cs.njit.edu

NJIT is an equal opportunity, affirmative action, equal access employer and especially encourages applications from minorities, women and persons with disabilities.

Northeastern University

College of Computer and Information Science

Tenure-Track Faculty Positions

College of Computer and Information Science invites applications for tenure-track faculty positions in computer science and information science, beginning in Fall 2008. Candidates will be considered at all levels and for all ranks. A PhD in computer science, information science, or a related discipline is required.

Computer Science candidates will be considered from all major disciplines of computer science. We particularly welcome candidates with a demonstrated potential to excel in collaborative research spanning multiple research areas. The College has particular strengths in programming languages and software engineering, network security and distributed computing, database management and information retrieval, artificial intelligence, and human-computer interaction.

Information Science applicants with strong research programs in all areas of information science or information systems will be considered. We particularly welcome candidates with research related to human-computer interaction, information retrieval, natural language dialog, information security, and medical or health care informatics. Areas of current faculty research in information science include human-computer interaction, speech and language processing, information retrieval, machine learning and ontologies. Current application areas include health care informatics, legal text-based systems, and assistive technologies.

The College maintains a strong research program with significant funding from the major federal research agencies and private industry. The College has a diverse full-time faculty of 25, with approximately 500 undergraduates, 250 Masters, and 70 Ph.D. students. In addition to degrees in computer science, the College offers an innovative bachelor's program in Information Science, and dual bachelor degree programs between computer and information science and the sciences, digital arts and business. The College also offers interdisciplinary master's programs in information assurance and health informatics.

Additional information and instructions for submitting application materials may be found at the following web site:

http://www.ccs.neu.edu/hiring/

Screening of applications begins immediately and will continue until the search is completed.

Northeastern University is an Equal Opportunity/Affirmative Action Employer. We strongly encourage applications from women and minorities.

(continued)

Chair, Department of Computer and Information Sciences

TEMPLE UNIVERSITY®

Located in Philadelphia, the 5th-largest city in the U.S., Temple University is a comprehensive Carnegie Research I Institution that serves more than 34,000 students. The CIS Department has two undergraduate degree programs, one in Computer Science and one in Information Science and Technology; a master's program in CIS; and a PhD program in CIS. It has undergone considerable growth in research in the past 7 years, during which research funding, publication rates and the number of PhD students have more than doubled.

Applicants are expected to have outstanding research accomplishments in computer and information sciences and a commitment to quality undergraduate and graduate programs and instruction. Applications from candidates with significant interdisciplinary interests are encouraged, and administrative experience at any academic level is an asset. Candidates from an industry with a strong record of research and administrative leadership are also encouraged.

Applications consisting of curriculum vitae; a statement of recent achievements, research and teaching goals; up to three representative publications; a vision statement; and names and addresses of at least three references should be submitted online at http://academicjobsonline.org.

Review of candidates will start on February 1, 2008 and will continue until the position is filled.

For further information, please visit the **Department of Computer and Information Sciences Web site at www.temple.edu/cis or e-mail to Dr. Longin Jan Latecki, Chair, Department Chair Search Committee: latecki@temple.edu.**

Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community. AA, EOE, m/f/d/v.

Professional Opportunities

Northern Michigan University

Mathematics and Computer Science

Instructor Position

POSITION TYPE: Two-year term position/DEPARTMENT: Mathematics and Computer Science

DESCRIPTION/REQUIREMENTS: Visit http://cs.nmu.edu, HigherEdJobs.com or call (906) 227-2020/ANNUAL SALARY: Competitive/APPLICATION DEADLINE: Screening will begin January 14, 2008, and continue until the position is filled.//NMU is an AA/EOE

Northwestern University

Department of Electrical Engineering and Computer Science

Faculty Position in Artificial Intelligence

Northwestern University is seeking a faculty member in the area of Artificial Intelligence. The appointment will be a tenure-track position in the Department of Electrical Engineering and Computer Science. Areas of interest include knowledge representation and reasoning (e.g., creating high-performance reasoning systems), high-level natural language processing (e.g., semantics, dialogue/discourse understanding, learning), cognitive modeling of conceptual information processing (e.g., learning by reading, common sense reasoning), and other areas relevant to achieving human-level AI.

The position is intended to be offered at the Assistant Professor level, but appointments at all ranks will be considered. Salary is competitive. The candidate must have a PhD or equivalent degree and a solid background in Artificial Intelligence and Computer Science. Applicants should also have the ability to establish an independently funded, innovative research program and have a strong commitment to teaching. Applicants must be able to teach CS courses.

Applicants should submit their curriculum vitae, research and teaching statements and at least three letters of recommendation to:

ai-search@eecs.northwestern.edu

To ensure full consideration, applications should be received by February 1, 2008. Preference will be given to early applications, and interviews may start early, but no offer will be made prior to February 2008. The starting date for this position is September 1, 2008.

Northwestern University is an Affirmative Action, Equal Opportunity Employer. Applications from women and under-represented minorities are encouraged. Hiring is contingent upon eligibility to work in the United States.

Northwestern University

Department of Electrical Engineering and Computer Science

Assistant Chair Position

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. All candidates must have a doctoral 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, and a list of four references to:

asstchair@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.

Further information about the hiring department and the University is available at:

http://www.eecs.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

Tenure-Track Faculty Position

The Department of Electrical Engineering and Computer Science at Northwestern University invites applications for a tenure track faculty position in programming languages and compilers, broadly construed. Candidates at all levels will be considered. An earned Ph.D. in Computer Science, Computer Engineering, or a related field is required, as is demonstrated success within programming languages and compilers. We are particularly interested in candidates who bridge this area and computer architecture, systems, high performance computing, software engineering, hardware synthesis, or computer security. Successful candidates will be expected to carry out world class research, collaborate with other faculty, and teach effectively at the undergraduate and graduate levels. Compensation and start-up packages are negotiable and will be competitive.

Northwestern EECS consists of over 50 faculty members of national prominence whose interests span a wide range. Four junior faculty members received CAREER awards last year. The Computer Engineering and Systems division, with 18 faculty members, and the Computing, Algorithms, and Applications division, with 8 members, are likely to provide a particularly stimulating collaborative environment for successful candidates. Northwestern University is located in the Chicago area.

Applicants should send a curriculum vitae, statements of research and teaching interests, three representative papers, and the names of at least three references for junior applicants and five for senior applicants, by email to:

plac-search@eecs.northwestern.edu
or by regular mail to:
PLAC Faculty Search Committee
Department of Electrical Engineering and Computer Science
Northwestern University
2145 Sheridan Road
Evanston, IL 60208

To ensure full consideration, applications should be received by February 1, 2008. Preference will be given to early applications, and interviews may start early, but no offer will be made prior to March 2008. The selected applicant will begin in the position either in September 2008 or January 2009.

Further information about the hiring department and the University is available at:

http://www.eecs.northwestern.edu
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.

Oakland University

Computer Science and Engineering Department

Tenure-Track Positions

The Department of Computer Science and Engineering invites applications for two tenure-track positions at the assistant professor level. Applicants must have completed a Ph.D. in Computer Science, Information Technology, Computer

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 competitive compensation packages.

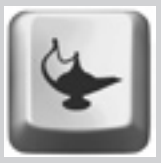
Over the next decade, the institute will grow to a strength of about 17 tenured and tenure-track researchers, and about 100 doctoral and post-doctoral positions. Additional growth is expected through outside funding. We maintain an open, international and diverse work environment and seek applications 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. In immediate proximity are the 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/application.**

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.

The Max Planck Society is committed to increasing the representation of minorities, women and individuals with physical disabilities in Computer Science. We particularly encourage such individuals to apply.



The recently founded MPI for Software Systems joins a network of almost eighty Max Planck Institutes (MPI), 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 1948, 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-GESELLSCHAFT

Professional Opportunities

Engineering or a closely related field by the appointment date. Desired areas of interest include multimedia and computer gaming, virtual worlds, service-oriented computing, middleware and distributed computing, human computer interaction, software project management.

Applications should be submitted by February 1, 2008 but will be accepted until the position is filled. Applicants should send a letter of intent, a statement of research and teaching interests, resume, and the names of three references to:

Search Committee
Department of Computer Science and Engineering
Oakland University
Rochester, MI 48309-4478
Email: csesearch@secs.oakland.edu

Oakland University, a public institute of over 17,000 students, is located in Michigan's Automation Alley. The CSE Department currently has 14 tenure-track faculty and an enrollment of approximately 40 doctoral, 152 graduate and 315 undergraduate students. Our undergraduate program in Computer Science is accredited by CAC/ABET. For more information on the CSE Department, please visit: www.cse.secs.oakland.edu Oakland University is an affirmative action/equal opportunity employer and encourages applications from women and minorities.

Ohio State University

Department of Computer Science and Engineering

Tenure-Track Position

The Department of Computer Science and Engineering (CSE), The Ohio State University, invites applications for one tenure-track position at the Assistant Professor level. The position is open to all areas of computer science and engineering, with priority consideration given to computer architecture, networking, software engineering and programming languages, and theory.

Women, minorities, or individuals with disabilities are especially encouraged to apply.

Applicants should hold or be completing a Ph.D. in CSE or a closely related field, and have a commitment to and demonstrated record of excellence in research and teaching.

The department maintains and encourages multi-disciplinary research and education activities within and outside The Ohio State University.

To apply, please submit your application via the online database. The link can be found at:

http://www.cse.ohio-state.edu/department/positions.shtml

Review of applications will begin in January and will continue until the position is filled.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

Pennsylvania State University

Applied Research Laboratory

Research Faculty Position

The Applied Research Laboratory (ARL) at 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 technologies, with a focus in naval missions and related areas. ARL currently has an opening in the Information Science and Technology (IS&T) Division. The IS&T Division recently won a prestigious new Multi-disciplinary University Research Program on urban smart sensor networks in collaboration with prominent faculty from Harvard, Duke and Ohio State Universities. Several other programs are exploring theoretic and testbed-based experimental innovations for adaptive complex systems, multi-robot collaboration, and multilevel decision and control systems.

The IS&T Division is seeking Research Faculty to conduct exciting new multi-disciplinary research. Areas include: Distributed Computing and Control; Sensor Networks; Network Control and Adaptation; Wireless Networks; Intelligent Multi-Robot Control; Nano-Sensor Technologies; Semantic Data Fusion; Service Oriented Architectures; Formal Languages; Expert Systems and Robotics. Prospective faculty will have the opportunity to develop their own research directions, as well as support ongoing cutting edge research in these areas, and supervise graduate and undergraduate theses.

L-24048 – Research Faculty - Requirements include a Ph.D. in Electrical and Computer Engineering, Information and Computer Science, Mathematical Science, or equivalent knowledge, plus a minimum of three years of work related experience. Experience in engineering related research and development and algorithm development for research applications is required. Experience in sensor networks, autonomous systems, network security, distributed systems, and sensor design and development network security is preferred. Faculty rank will be commensurate with education level and experience.

Electronically apply to Job #: L-24048 at arl-jobs@psu.edu. PLEASE INSERT JOB NUMBER IN SUBJECT LINE. Applications will be accepted until position is filled.

U.S. Citizenship required. This is a fixed-term appointment funded for one year from date of hire with excellent possibility of re-funding.

For further information on this job, the Applied Research Laboratory, or current position vacancies, visit our web site at www.arl.psu.edu. Direct any inquiries to arl-jobs@psu.edu.

The Pennsylvania State University/Applied Research Laboratory offers an exceptional benefits package, including a tuition discount.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

Purdue University

School of Electrical and Computer Engineering

Faculty Positions

The School of Electrical and Computer Engineering at Purdue University invites applications for faculty positions across the breadth of computer science/engineering at all levels. The Computer Engineering Area of the school (http://engineering.purdue.edu/ECE/Research/Areas/CompEng) has nineteen faculty members who have active research programs in areas including AI, architecture, compilers, computer vision, distributed systems, embedded systems, graphics, haptics, HCI, machine learning, multimedia systems, networking, networking applications, NLP, OS, robotics, software engineering and visualization. We will consider outstanding candidates in any area of computer science/engineering, although for at least one position there is a preference for visualization and HCI. For all positions we require a PhD in computer science/engineering or a related field and a significant demonstrated research record commensurate with the level of the position applied for. Applications should consist of a cover letter, a CV, a research statement, names and contact information for at least five references, and URLs for three to five papers. Applications should be submitted online at: https://engineering.purdue.edu/Engr/AboutUs/Employment/Applications Inquiries can be sent to compengr@ecn.purdue.edu. Applications will be considered as they are received, but for full consideration should arrive by February 1, 2008. Purdue University is an equal opportunity, equal access, affirmative action employer.

Queens College of the City University of New York

Department of Computer Science

Tenure-Track Position

The Department of Computer Science at Queens College of CUNY is accepting applications for a tenure-track position at the Assistant Professor level starting Fall 2008, in any area of computer science.

Consult http://www.cs.qc.cuny.edu for further information.

Rensselaer Polytechnic Institute (RPI)

Department of Computer Science

Tenure-Track Positions

The Rensselaer Polytechnic Institute (RPI) invites applications and nominations for one or more anticipated tenure-track positions at all professorial levels. All research areas of computer science will be considered. Applicants should hold a PhD in Computer Science or in a closely allied field, have substantial research accomplishments for the professorial level sought, and demonstrate a strong commitment to teaching.

Applicants should submit a curriculum vitae, a statement describing current and planned research, and a statement describing teaching accomplishments and philosophy via:

http://www.cs.rpi.edu/application/

Applicants should also arrange to have at least three letters of recommendation submitted through the same web site. The search will continue until the positions are filled, but to ensure full consideration, all application materials including letters must be submitted by January 15, 2008.

RPI's strategic vision, the Rensselaer Plan, calls for significantly expanded research activities in three primary focal areas: biotechnology, nanotechnology, and information technology (IT). The CS Department has already been a significant beneficiary of RPI's focus in the IT area, hiring Wei Zhao (http://www.rpi.edu/research/magazine/spring07/focus.html) as CS faculty member and Dean of Science, two chaired professors in the Tetherless World Constellation (http://news.rpi.edu/update.do?artcenterkey=1596), James Hendler (http://www.cs.rpi.edu/~hendler) and Deborah McGuinness (http://www.ksl.stanford.edu/people/dlm) working in the area of Web Science.

In addition to the Departmental faculty search, a search is underway to hire a third chaired professor in this Constellation. In September 2007, Rensselaer, with the State of New York and IBM, has officially opened the Computational Center for Nanotechnology Innovations (CCNI) (http://news.rpi.edu/update.do?artcenterkey=1540).

The CCNI hosts a 32,000-processor Blue Gene supercomputer and provides over 80 tera-flops of computing power, making it the world's most powerful university-based supercomputing center. To complement its investment in the CCNI, RPI has announced the formation of a new constellation of five chaired professors in Computational Science and Engineering (http://www.rpi.edu/research/constellations/index.html).

The Department currently has 24 full-time faculty members including two IEEE Fellows, one AAAI Fellow, and six recent NSF CAREER Award winners. There are approximately 400 undergraduate students and 100 graduate students, a growing externally funded research program with a budget exceeding $3M per year, and a modern curriculum supporting BS, MS and PhD degree programs. Faculty members are strongly encouraged to participate in collaborative research across disciplines, especially those critical to biotechnology, nanotechnology, information technology, and experimental media and performing arts (http://empac.rpi.edu/).

Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.

Rice University

Department of Computer Science

Tenure-Track

Faculty Positions

The Department of Computer Science at Rice University seeks applications for a tenure-track faculty appointment to start in July 2008. We welcome outstanding candidates in all areas of computer science. We are particularly looking for candidates with interests and experience in any aspect of computer systems, including but not limited to, computer architecture, databases, distributed systems, networking, and operating systems. We anticipate hiring at the rank of Assistant Professor; exceptional candidates at a higher rank will be considered. The Department and its associated research groups also have openings for research positions, including research faculty, research scientists, and postdoctoral researchers. The availability of research positions is contingent on external funding.

Applicants for both tenure-track faculty and research positions should hold a Ph.D. degree or equivalent in computer science or a related discipline, or expect to complete such requirements prior to assuming an appointment. A commitment to excellence in both research and teaching is required for a tenure-track appointment. Early applications will be appreciated.

The Department has access to superb research facilities, including parallel and multiprocessor systems laboratories, two terascale computers, large networks of workstations, and a high-speed network test bed. The university is located across the street from the Texas Medical Center, one of the premiere centers for medical research in the country. Houston's oil, medical, aerospace, and technology communities all combine to make it a center for many kinds of computation, from high-performance computing through real-time and embedded systems.

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Lecturer Positions (LEC#2)

Located in Ithaca, N.Y., Cornell University is a bold, 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 non tenure-track lecturers at all levels. The primary focus of these positions is teaching with a commitment to bringing computer science research ideas into the undergraduate classroom. Applicants should have a PhD in computer science or closely related field, a research program with demonstrated accomplishments, and a devotion to excellence in teaching. With our expanding role on campus and our burgeoning game design initiative there are many opportunities for creative curriculum development.

To ensure full consideration, applications should be received by January 15, 2008, but will be accepted until all positions are filled.

Applicants should submit a curriculum vita, brief statements of research and teaching interests through the web at **http://www.cis.cornell.edu/apply**, and arrange to have at least three references either uploaded on the Web or sent to:

Faculty Recruiting Committee Chair
Department of Computer Science
4130 Upson Hall, Cornell University
Ithaca, NY 14853-7501

Or

frecruit@cs.cornell.edu

Please include reference number LEC#2 with application.

Cornell University

Cornell University is an Equal Opportunity Employer and encourages applications from women and ethnic minorities

http://chronicle.com/jobs/profiles/2377.htm

Professional Opportunities

Rice University is a private university with a strong reputation for 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 loads are low to accommodate faculty research.

Please submit a resume, a statement of research and teaching interests, and the names and addresses of at least three references through the Computer Science website: http://csfacultyapplications.rice.edu

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 or by contacting Ms. Darnell Price at 713-348-5200 or by email at: darnell@rice.edu

Rice University is an Equal Opportunity/Affirmative Action Employer.

Rochester Institute of Technology

Computer and Information Sciences

Tenure-Track Faculty Positions

Rochester Institute of Technology's B. Thomas Golisano College of Computing and Information Sciences (GCCIS) invites applications and nominations for the following positions:

(2) Tenured/Tenure-track research faculty to support its new, innovative, interdisciplinary Ph.D. program

(2) Tenure-track Computer Science faculty in the areas of databases, data-mining, and cryptography/security

(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 excellence in teaching and scholarship, and have the ability to contribute in meaningful ways to RIT's commitment to cultural diversity and pluralism. A Ph.D. in computing or a closely related discipline is required for the tenure-track positions; an MS plus industrial or teaching experience is acceptable for the Lecturer positions.

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

(1) Research staff or PostDoc position in the areas of service oriented science and Grid computing

(5) Ph.D. student positions in the areas of service oriented Science and Grid Computing

Successful candidates for these positions must have a strong background in service oriented architecture, Web services, and Java. Knowledge in Grid technologies and security is highly desired.

The Golisano College of Computing and Information Sciences is home to the Computer Science, Information Technology, Software Engineering, and Networking, Security, and Systems Administration departments, as well as the Center for Advancing the Study of Cyberinfrastructure (CASCI), the research arm of the college. The College is housed in 165,000 square feet of dedicated space with state-of-the-art facilities, adjacent to our 9,000 sq. ft. research center.

The College currently has 102 full-time faculty members, over 2,200 undergraduate students and over 450 Master's level graduate students. Faculty members are engaged in scholarly activities that include educational approaches to computing, and discovery and applied research with a focus on data mining, intelligent systems, complexity theory and cryptography; software engineering, cybersecurity, networking and distributed systems, cyberinfrastructure and grid computing, computational biology and bioinformatics, medical imaging, computer games and simulation, and human-computer interaction.

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

RIT is an Affirmative Action/Equal Employment Opportunity Employer

Rutgers University

Department of Computer Science

Tenure-Track Faculty Position

The Rutgers University Department of Computer Science and the Center for Computational Biomedicine, Imaging and Modeling (CBIM) seeks applicants in computer graphics and related areas, for a tenure-track faculty position starting September 2008. We're particularly interested in synergy with CBIM and thus we're excited about receiving applications primarily in all areas of computer graphics, as well as related areas such as visualization, computer vision, machine learning, and human-computer interaction. Rutgers University offers an exciting and multidisciplinary research environment and encourages collaborations between Computer Science and other disciplines.

Applicants should have earned or anticipate a Ph.D. in Computer Science or a closely related field, should show evidence of exceptional research promise, potential for developing an externally funded research program, and commitment to quality advising and teaching at the graduate and undergraduate levels. Applicants should send their curriculum vitae, a research statement addressing both past work and future plans, a teaching statement and arrange for four letters of recommendation to be sent on their behalf to:

hiring@cs.rutgers.edu

If electronic submission is not possible, hard copies of the application materials may be sent to:

Professor Dimitris Metaxas, Hiring Chair
Computer Science Department
Rutgers University
110 Frelinghuysen Road
Piscataway, NJ 08854

Applications should be received by February 15, 2008, for full consideration.

Rutgers University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are especially encouraged to apply.

Rutgers University

Department of Computer Science

Tenure-Track Faculty Position

The Department of Computer Science and the BioMaPS Institute for Quantitative Biology at Rutgers University invite applications for a tenure track faculty position at the junior or senior level in the Department of Computer Science. Candidates should have a strong background and experience in computational biology or biomedical informatics, including but not limited to: structural and functional genomics and proteomics, biological networks, evolutionary and systems biology, computational modeling, machine learning and applications, large scale systems data analysis, and informatics. They should be prepared to work on interdisciplinary projects making substantive Computer Science contributions.

Applicants should submit a cover letter, curriculum vitae, research summary and statement of future research goals, together with a statement of teaching experience and interests, and arrange for four letters of recommendation to be sent on their behalf. Materials should be sent as PDF files to:

Chair, Hiring Committee DCS-BioMaPS
Rutgers University
Department of Computer Science
Hill Center, Busch Campus
Piscataway, NJ 08855
(email: hiringbio@cs.rutgers.edu)

For more information on the Department of Computer Science, see:

http://www.cs.rutgers.edu

and for the BioMaPS Institute see:

http://www.biomaps.rutgers.edu

To ensure proper consideration, applications should arrive by February 1, 2008.

Rutgers University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are especially encouraged to apply.

Singapore Management University

School of Information Systems

Faculty Positions

Applications for research focused tenure-track and applications oriented practice-track are invited at all levels.

The SIS research mission is to address deep technology challenges and management issues in information systems that have the potential to transform the way businesses operate.

Real-world industry sectors provide SIS with a test-bed and laboratory for experimentation, as well as a fertile breeding ground for new ideas. Our faculty and students apply their research results to solve real problems in the context of industry settings, and to create innovative information technology applications, systems, and management methods. At the same time, our faculty actively publish in top quality computer science and management science conference and journal outlets.

The Singapore Management University (SMU) was officially incorporated in January 2000. It is a public-funded institution chartered in a unique way to provide the flexibility and operating characteristics of an American-style private university. Today, SMU is home to over 5,400 students and comprises six schools.

We are seeking faculty candidates in the following research areas:

1. Data Management and Business Intelligence
2. Information Security and Trust
3. Software Systems, Architecture and Integration
4. Intelligent Decision Support Systems
5. Information Systems Management

Specifics on our hiring strategy within each of these areas are given at:

www.sis.smu.edu.sg/careers

SIS faculty members in all areas are strongly encouraged to collaborate on innovative research projects. SMU's Office of Research, the SIS's Research Centre, and the Singapore government provide generous support for high quality research proposals.

SIS undergraduate and post-graduate programmes produce people who have depth in technology and innovative applications, and also understand IT management. The SIS undergraduate programme is committed to innovative pedagogy. SIS launched the first PhD programme in SMU in August 2006. SIS also launched Master of IT in Business programme in August 2007.

Tenure-track applicants must have a PhD from an internationally recognised university in the areas of Computer Science, Information Technology, Information Systems, or related disciplines and an outstanding record of academic research and publishing that is commensurate with their desired rank. Tenure-track faculty should also demonstrate a strong interest in innovative research oriented applications. Practice-track faculty applicants must have a PhD in the related IT disciplines from an internationally recognised university, an outstanding record of contributing to leading-edge IT systems, software applications and professional activities that impact IT and business practice, and a prior record of research oriented publications, and/or a current record of professionally relevant applied publications.

Qualified candidates should initially submit a cover letter, curriculum vitae, research and teaching statements and samples of published work. Candidates may submit softcopy or hardcopy of their application materials to:

SIS Faculty Recruiting
Singapore Management University
School of Information Systems
80 Stamford Road
Singapore 178902
E-mail: siscv@smu.edu.sg
Website: www.sis.smu.edu.sg

SMU-Carnegie Mellon Partnership

Selected candidates will be asked to interview at Carnegie Mellon University. In 2003, SMU and Carnegie Mellon University (Pittsburgh, USA) entered into a close partnership to jointly establish the SMU School of Information Systems (SIS). Carnegie Mellon faculty are actively participating in SIS faculty selection, mentoring and development, and in the design of the SIS undergraduate curriculum, research centre, and post-graduate and professional programmes.

State University of New York Institute of Technology

Department of Computer & Information Sciences

Tenure-Track Position

The Department of Computer and Information Sciences at the State University of New York Institute of Technology invites applications for a tenure-track position to be filled for Spring 2008 or Fall 2008. The department supports undergraduate Computer Science and Computer Information Systems programs, as well as a MS in Computer Science. SUNYIT faculty duties include teaching, research, curriculum development, industry engagement, and campus/community service. The position requires a Ph.D. in computer science or closely related discipline.

For full consideration, letter of application, vita, teaching philosophy, and three letters of reference should be submitted online:

http://www.sunyit.edu/employment

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

Historically a transfer college, SUNYIT opened its doors to freshman students in 2003. The Department of Computer and Information Sciences in the School of Information Systems and Engineering Technology (ISET) is the largest academic department in both students (345) and faculty (11). ISET also includes five engineering technology programs, telecommunications, and electrical engineering.

Stony Brook University

Department of Computer Science

Faculty Positions

Stony Brook University's Department of Computer Science has tenure-track faculty positions for Fall 2008. Strong candidates in all areas will be considered, but we are particularly interested in receiving applications from highly qualified junior candidates in interdisciplinary areas or whose research bridged traditional academic boundaries, particularly in high-performance computing, digital media, computer games, data mining/machine learning, artificial intelligence, computational neurosciences, computer-human interaction, and robotics.

The Department has 44 faculty members and is expected to recruit additional members in the next few years. There are five main active research areas in

Professional Opportunities

the Department: computer systems, visual computing, logical programming/database, concurrency/verification, and algorithms. Detailed information in the research activities of these groups can be found on the Department home page:

www.cs.sunysb.edu

The Department is in a stage of significant expansion, including a new Computer Sciences building, along with a new Center of Excellence in Wireless and Information Technology (CEWIT). The Department is associated with the New York Center for Computational Sciences (NYCCS) and New York Blue (currently ranked as the fifth fastest supercomputer in the world).

Stony Brook enjoys close proximity to both New York City and Long Island's majestic ocean beaches. Its school districts are highly ranked nationally. Opportunities for industrial collaborations abound with many high-profile IT companies close by as well as Brookhaven National Laboratory (BNL). Moreover, the Department of Computer Science offers a congenial working environment.

Applicants should have a Ph.D. in Computer Science or a related discipline. Send a detailed resume, the names of at least three references, and three publications to:

Chair of Faculty Recruiting Committee
Department of Computer Science
Stony Brook University
Stony Brook, NY 11794-4400
Telephone: (631) 632-8470

and have at least three reference letters sent to the same address. Letters may also be sent to recruit@cs.sunysb.edu. In addition, e-mail to the same address a URL pointing to your online resume and publications. Review of applications will begin soon and will continue until the positions are filled.

Equal opportunity/affirmative action employer.

Tennessee Technological University

Department of Electrical and Computer Engineering

Tenure-Track Position

The Department of Electrical and Computer Engineering (ECE) at Tennessee Technological University invites applications for a tenure-track position at the Associate or Assistant Professor level in Computer Engineering beginning in August 2008. This position includes an initial appointment as a Stonecipher Faculty Fellow in Computer Engineering. Candidates for this position must have an earned Ph.D. degree in computer engineering or closely related areas with expertise in computer engineering areas such as computer networks, parallel and distributed systems, sensor networks and/or computer security.

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

See http://www.tntech.edu/ece/jobs.html for details.

AA/EEO

Towson University

Department of Computer and Information Sciences

Tenure-Track Position

The Department of Computer and Information Sciences (CIS) at Towson University invites applications for a tenure-track assistant professor position to begin Fall 2008. The selected candidate will conduct applied research, seek grants and partnerships with government agencies and the private sector, and work in partnership with the Center for Applied Information Technology, which is a part of the Division for Economic and Community Outreach.

The faculty member will be expected to teach undergraduate and graduate courses, and supervise graduate (MS and/or D.Sc.) student research. Applicants must have a Ph.D. or D.Sc. in Computer Science, Computer Information Systems or Information Technology. Applicants with experience working with government agencies and/or private sector are strongly encouraged to apply.

For more information on the position, visit:

http://www.towson.edu/cosc/positionsall.asp

University at Buffalo (SUNY)

Computer Science and Engineering Department

Assistant Professor Position

Celebrating its 40th anniversary this year, the CSE Department solicits applications from excellent candidates in pervasive computing and high performance computing for openings at the assistant professor level.

The CSE department has outstanding faculty and is affiliated with successful centers devoted to biometrics, bioinformatics, biomedical computing, cognitive science, document analysis and recognition, and computer security.

Candidates are expected to have a Ph.D. in Computer Science/Engineering or related field by August 2008, with an excellent publication record and potential for developing a strong funded research program.

All applications should be submitted by January 15, 2008 electronically via recruit.cse.buffalo.edu. A cover letter, curriculum vitae, and names and email addresses of at least three references are required.

The University at Buffalo is an Equal Opportunity Employer/Recruiter.

University of Alabama at Birmingham

Department of Computer and Information Sciences

Faculty Position

The Department of Computer & Information Sciences at the University of Alabama at Birmingham (UAB) is seeking candidates for a tenure-track/tenure-earning faculty position at the Assistant or Associate Professor level beginning August 15, 2008. Candidates with expertise in Artificial Intelligence who could interact with existing research groups in Knowledge Discovery and Data Mining, Computer Graphics and Imaging, and Software Engineering are of particular interest. Also potential for multidisciplinary collaboration with research groups working in Bioinformatics and Computer Forensics would be advantageous. For additional information about the department please visit http://www.cis.uab.edu.

Applicants should have demonstrated the potential to excel in one of these areas and in teaching at all levels of instruction. They should also be committed to professional service including departmental service. A Ph.D. in Computer Science or closely related field is required.

Applications should include a complete curriculum vita with a publication list, a statement of future research plans, a statement on teaching experience and philosophy, and minimally four letters of reference with at least one letter addressing teaching experience and ability. Applications and all other materials may be submitted via email to facapp@cis.uab.edu or via regular mail to:

Search Committee
Department of Computer and Information Sciences
115A Campbell Hall
1300 University Blvd
Birmingham, AL 35294-1170

Interviewing for the position will begin as soon as qualified candidates are identified, and will continue until the position is filled.

The department and university are committed to building a culturally diverse workforce and strongly encourage applications from women and individuals from underrepresented groups. UAB has an active NSF-supported ADVANCE program and a Spouse Relocation Program to assist in the needs of dual career couples. UAB is an Affirmative Action/Equal Employment Opportunity employer.

University of Calgary

Department of Computer Science

Tenure-Track Position

The Department of Computer Science, Faculty of Science, at the University of Calgary is continuing a large expansion and seeks outstanding candidates for a tenure track position at the Assistant and Associate Professor level. The Associate level position is targeted at Information Security and the successful applicant must be eligible to win a CRC II competition.

Applicants for professorial stream appointments are expected to establish an extensive research agenda and to teach at the graduate and undergraduate levels. Successful candidates will be expected to actively supervise and recruit graduate students into their program. Peer-reviewed external funding is normally expected to be sustained throughout the appointment and industrial partnerships are strongly encouraged if appropriate. Applicants must possess a doctorate in Computer Science or a related discipline, and have a strong research record. Successful applicants will be enthusiastic about contributing to both teaching and research.

Applicants in the following areas are sought:

1. One candidate is sought in the area of computer games**.** The Department currently has an undergraduate concentration in games and has approval to recruit in any games related area. The successful applicant is expected to take the lead in developing both the undergraduate concentration and to establish a research agenda. Games related research that may originate from more established computer science disciplines will be given full consideration. Possible related areas include, but are not limited to: graphics, HCI, SE, internet games delivery, etc.

2. One candidate is sought in the area of theory**.** The Department has expertise in quantum complexity, distributed computation, computational mathematics (including computational number theory and cryptography, computer algebra and computational geometry) and theoretical aspects of programming language design. The successful candidate will work in a related area and work that will likely lead to collaborations with other research groups in the Department would be preferred.

3. One candidate is sought in the area of information visualization/human computer interactions. The Department has expertise in HCI, information visualization, and human-robot interactions. As a part of recent iCORE/NSERC industrial chair appointments, we have an opportunity to expand in this area. The successful candidate will complement existing strengths in this area and help us to enhance our established international reputation.

4. The Department has recently recruited an iCORE Chair in information security and the intention is to cluster and strengthen the existing research and teaching within the department in this area. The first of the three positions to be recruited with preferred areas including, but not limited to, network security, applied cryptography, and application security. The successful applicant will establish their own research program while working with the information security team by contributing to conceiving, designing and carrying out a research agenda in security/cryptography. We have an international reputation in innovative teaching methodology with our courses on viruses and malware, and spam and spyware. The second position sought this year could be appointed at the Associate Professor level if the applicant meets the standards required to earn a CRC II appointment.

The Department is one of Canada's leaders as evidenced by our commitment to excellence in research and teaching. It has an expansive graduate program and extensive state-of-the-art computing facilities. Calgary is a multicultural city that is the fastest growing city in Canada. Calgary enjoys a moderate climate located beside the natural beauty of the Rocky Mountains. Further information about the Department is available at:

http://www.cpsc.ucalgary.ca/

Interested applicants should send a CV, a concise description of their research area and program, a statement of teaching philosophy, and arrange to have at least three reference letters sent to:

Dr. Ken Barker
Department of Computer Science
University of Calgary
2500 University Dr. NW
Calgary, Alberta, Canada
T2N 1N4

Or email to: search@cpsc.ucalgary.ca

The applications will be reviewed immediately and will continue until the position is filled. Later applicants should note that our hiring committee will stop accepting new applicants by early May 2008.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Calgary respects, appreciates, and encourages diversity.

To see all University of Calgary academic positions, please visit:

www.ucalgary.ca/hr/career

University of California, Davis

Computer Science Department

Tenure-Track Faculty Position

The Department of Computer Science, in the College of Engineering at UC Davis invites applications from qualified candidates for a tenure-track faculty position at all levels with a focus on Algorithms and Computational Approaches to the Characterization and Exploitation of Biological Networks, with a start date of Fall Quarter 2008. The biological networks of interest include networks often studied in systems biology, but are not limited to those networks and include, for example, phylogenetic and genealogical networks. This faculty hire is one of seven new positions in a campus-wide Computational Characterization and Exploitation of Biological Networks Initiative (www.cnb.ucdavis.edu) and thus the hire in Computer Science would be expected to work collaboratively with other faculty hires under the initiative, as well as existing faculty in Networks Biology.

Candidates should have a Ph.D. degree in Computer Science or a closely related field, a commitment to excellence in teaching, and a publication record that demonstrates excellence in research within the areas of interest. The candidate should have a significant understanding of some subarea of biology as well as demonstrated excellence in Computer Science. The position will be filled with an individual who will develop algorithms that derive, analyze and extract value from biological networks; who will develop network models and concepts to better model biological phenomena; and who will apply those novel models and algorithms to biological datasets to obtain significant biological insights. The emphasis must be on Computer Science issues and a successful candidate must demonstrate the relevance of their work to computer science.

The successful candidate will be expected to develop an extramurally-funded research program and contribute to graduate and undergraduate teaching in computational biology and in the core Computer Science curriculum. Candidates at the more senior levels should have a strong record of publications and research funding, proven leadership

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Professional Opportunities

skills in collaborative research efforts, and an excellent teaching record at the undergraduate and graduate level.

UC Davis is 14th among US universities in research funding and is ranked among the top ten public engineering colleges in the nation. The Department of Computer Science currently has 34 faculty with a wide range of research interests, including four faculty involved in computational biology. The biology faculty at UC Davis have expertise and prominence in an exceptionally large range of areas in biology.

Interested persons should apply using the instructions given at:

http://www.cs.ucdavis.edu/department/employ/index.html

Applications include a vita, a personal statement, a select subset of publications, and the names of three references. Review of completed applications will begin January 15, 2008. The position remains open until filled.

UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, individuals with disabilities and veterans.

University of California, Davis

Department of Computer Science

Faculty Position

The Department of Computer Science at the University of California at Davis invites applications for a faculty position at all ranks in Computer Science for an appointment with a begin date in fall 2008. The position is one of six new faculty positions at UC Davis associated with the multi-disciplinary Universe@UCDavis initiative (universe.ucdavis.edu) We have particular interest in high-performance computing, distributed and parallel computing, cluster computing, and scientific computing relevant to Cosmology and/or Astronomy. The successful candidate will contribute to the multidisciplinary Universe@UCDavis projects through research and collaboration with faculty in Computer Science, Mathematics, Statistics, and Cosmology on high-performance and distributed computing in the context of peta-scale cosmological data sets. Depending on the candidate, this position may be split with Physics, Statistics, or Mathematics.

Applicants should have received (or be about to receive) a doctoral degree in Computer Science or a field related to the Universe@UCDavis initiative. Candidates must have demonstrated excellence in research and a commitment to quality teaching. Candidates at the more senior levels should have a strong record of publications and research funding, proven leadership skills in collaborative research efforts, and an excellent teaching record at the undergraduate and graduate level. Successful applicants will be expected to establish a top-quality research program and to teach both graduate and undergraduate courses. The department is particularly interested in candidates who have experience working with students from diverse backgrounds and a demonstrated commitment to improving access to higher education for disadvantaged students. Interested persons should apply using the instruction given at:

http://www.cs.ucdavis.edu/department/employ

Applications include a vita, a personal statement, a select subset of publications, and the names of three references. Review of completed applications will begin January 15, 2008. The position remains open until filled.

UC Davis is responsive to the concerns of dual-career couples and offers a Partner Opportunity Program. UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, individuals with disabilities and veterans.

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 studies of information technology starting in July 2008. The position is targeted at the rank of associate professor, but exceptional candidates at all ranks will be considered. Organizational studies of information technology are a particular strength of the Department, and we are looking for candidates who both broaden and deepen our vision.

More information on this and other positions is available at:

http://www.ics.uci.edu/employment/employ_faculty.php

University of California, Irvine

Donald Bren School of Information and Computer Sciences

Tenure-Track Position

The University of California, Irvine (UCI) is seeking excellent candidates for a tenure-track position in Medical/Health Informatics starting in July 2008. The targeted rank is that of an assistant professor, but exceptional candidates at higher ranks will be considered. The position will be in the Donald Bren School of Information and Computer Sciences (ICS) and affiliated with UCI's Institute for Clinical Translational Science (ICTS).

More information on this position is available at:

http://www.ics.uci.edu/employment/employ_faculty.php

University of California, Irvine

Donald Bren School of Information and Computer Sciences

Tenure-Track Position

The Department of Informatics at the University of California, Irvine (UCI) is seeking excellent candidates for a tenure-track position in Software Engineering starting in July 2008. The position is targeted at the rank of assistant professor, but exceptional candidates at all ranks will be considered. Software engineering is a particular strength of the Department, and we are looking for candidates who both broaden and deepen our vision.

More information on this and other positions is available at:

http://www.ics.uci.edu/employment/employ_faculty.php

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 areas of algorithms, graphics, compilers & programming languages, bioinformatics, security, high-performance computing, and software engineering. Faculty positions in non tenured/tenure-track series are also available. Exceptional candidates in all areas will be given serious consideration.

The department is looking for applicants with outstanding research credentials. Successful applicants are expected to lead a vigorous research program and to have a strong commitment to teaching. A Ph.D. in computer science or a related area is desired. Salary and rank will be commensurate with qualifications in conformance with University of California policies.

CSE is home to over 50 faculty and 300 graduate students who together span a range of research areas in computer science, computer engineering and bioinformatics. In addition, the department works closely with Center for Networked Systems (CNS), the California Institute for Telecommunications and Information Technology (CalIT2), The San Diego Super Computing 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 on the Web at:

http://www.cse.ucsd.edu/

Application Procedure For details on how to apply click here**:**

http://www.cse.ucsd.edu/home/prospectivefaculty/currentad.html

Closing Date: We encourage candidates to apply online by clicking on the URL listed below. Review of applications will begin on January 7, 2008 and will continue until positions have been filled.

Applicants are asked to include a personal statement summarizing teaching experience. Please highlight any leadership efforts, and/or contributions to promotion of diversity in the workplace.

UCSD is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. Women and minority applicants, veterans and persons with disabilities are encouraged to apply.

For applicants with interest in spousal/partner employment, please see our Web site for the UCSD Partner Opportunities Program.

University of Chicago

Department of Computer Science

Faculty Positions

The Department of Computer Science at the University of Chicago 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 Chicago has the highest standards for scholarship and faculty quality, and encourages collaboration across disciplines.

The Chicago metropolitan area provides a diverse and exciting environment. The local economy is vigorous, with international stature in banking, trade, commerce, manufacturing, and transportation, while the cultural scene includes diverse cultures, vibrant theater, world-renowned symphony, opera, jazz, and blues. The University is located in Hyde Park, a pleasant Chicago neighborhood on the Lake Michigan shore.

Please send applications or nominations to:

Professor Stuart A. Kurtz, Chairman
Department of Computer Science
The University of Chicago
1100 E. 58th Street, Ryerson Hall
Chicago, IL 60637-1581

or to:

apply-077714@mailman.cs.uchicago.edu (attachments can be in pdf, postscript, or Word)

Complete applications consist of (a) a curriculum vitae, including a list of publications, (b) forward-looking research and teaching statements. Complete applications for Assistant Professor and Instructor positions also require (c) three letters of recommendation, sent to:

recommend-077714@mailman.cs.uchicago.edu

or to the above postal address, including one that addresses teaching ability. Applicants must have completed, or will soon complete, a doctorate degree. We will begin screening applications on December 15, 2007. Screening will continue until all available positions are filled.

The University of Chicago is an equal opportunity/affirmative action employer.

University of Colorado at Boulder

Computational Biology and Bioinformatics

Tenure-Track Faculty Position

The University of Colorado at Boulder invites applications for a tenure-track faculty position in the broad areas of computational biology and bioinformatics, under the auspices of the Colorado Initiative in Molecular Biotechnology (CIMB). Individuals with interests in developing and applying computational or mathematical methods to biological systems are encouraged to apply. Areas of interest may include but are not limited to: machine learning, data mining, high-performance computing, image analysis, databases, and algorithms. CIMB is a program which integrates faculty from the departments of Applied Mathematics; Chemical & Biological Engineering; Chemistry & Biochemistry; Computer Science; Ecology and Evolutionary Biology; Integrative Physiology; Mechanical Engineering; Molecular, Cellular & Developmental Biology; and Physics (http://bayes.colorado.edu/biotech).

A successful candidate may be rostered in any one of these departments. The position is at the Assistant Professor level, although senior candidates at higher ranks will be considered. Candidates must have a Ph.D. degree and a demonstrated commitment to teaching at undergraduate and graduate levels, and will be expected to develop an internationally recognized research program. Applicants should submit a curriculum vitae, statements of research and teaching interests, and arrange to have three letters of reference sent to:

Computational Biology Search, 347 UCB
University of Colorado
Boulder, CO 80309-0347

Application materials may be sent electronically to: CompBio@colorado.edu. Review of applications will begin on January 15, 2008 and will continue until the position is filled.

The University of Colorado is sensitive to the needs of dual career couples, and is committed to diversity and equality in education and employment.

See www.Colorado.edu/ArtsSciences/Jobs/ for full job description.

University of Colorado at Boulder

Department of Computer Science

Tenure-Track Faculty Position

The Department of Computer Science at the University of Colorado at Boulder seeks outstanding candidates for a tenure-track faculty position in the following areas: programming languages, software engineering, or computer and network systems. We are most interested in junior candidates but will also consider exceptional mid-career candidates. Applications received by January 16, 2008 will be given priority consideration.

The University of Colorado at Boulder is committed to diversity and equality in education and employment. We encourage applications from women and minority candidates.

For instructions on how to submit the application, please visit:

http://www.cs.colorado.edu/facsearch.html

University of Delaware

Department of Computer and Information Sciences

Post-Doctoral Position

Applications are invited for one post-doc position to begin January 16, 2008. A Ph.D. in Computer Science, Computer Engineering, Computational Science, or Bioinformatics is required. Candidates should possess a demonstrated potential and strong commitment to quality research. Candidates having primary interest and expertise in parallel and distributed systems, grid and volunteer computing, and distributed scientific applications will be given preference.

Professional Opportunities

The initial appointment will be for one year, renewable annually for up to two years by mutual agreement and depending on funding.

To apply, send cover letter, CV, and contact information for at least three references to: Professor Michela Taufer at taufer@cis.udel.edu by January 15, 2008.

The University of Delaware is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

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 to begin Fall 2008. Of primary interest are candidates whose research is in networks, especially network security, or in information retrieval, broadly defined. Applicants should hold a Ph.D. or its equivalent, and be committed to excellence in research and teaching. The standard teaching assignment is three courses per year.

The Department has 20 tenure-track, 4 research, and 2 teaching faculty members, 103 graduate students and 215 undergraduate students. We have significant external funding, including NSF Career and DOE Young Investigator Awards, and a grant in Communications and Networks that is part of the Army Research Lab's Collaborative Technology Alliance. A major University of Delaware biotechnology initiative (www.dbi.udel.edu) offers opportunities for collaborative research in bioinformatics. Considerable information about the Department is available at www.cis.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, candidates should have three (3) confidential letters of reference sent directly to csfacsch+tt@cis.udel.edu.

Alternatively, applications and letters may be mailed to:

Dr. Chien-Chung Shen,
Faculty Search Committee Chair
Department of Computer and Information Sciences
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

Faculty Positions

The Department of Computer Science of the University of Hong Kong invites applications for faculty positions at levels of Chair/Professor/Associate Professor/Assistant Professor. Applicants should have a Ph.D. degree in Computer Science, Computer Engineering, or related fields, and a strong interest in research and teaching.

For the Chair/Professor post, applicants should have an exceptional record of research that aligns with the University's initiatives in information technology and bioinformatics.

For more information and online application, please visit:

http://www.cs.hku.hk/people/vacancies/centenary2007-20.html

University of Illinois at Urbana-Champaign

Cognitive Computation Group

Post-Doctoral Positions

The Cognitive Computation Group at the University of Illinois at Urbana-Champaign has one or two post-doctoral positions, beginning immediately. Initial appointment is for one year, with possible extensions.

The positions are with Professor Dan Roth in the area of Machine Learning. At least one of the positions is on the use of background knowledge and inference techniques as part of the learning process. Knowledge and experience with Knowledge Representation and Reasoning techniques are a plus.

Prospective candidates should apply with a cover letter, CV, statement of research interests and accomplishments, and names and e-mail addresses of three references.

Please send by e-mail with the subject line: "Post-Doc ML" to:

Name: Robin King
Email: rbking@uiuc.edu
Phone: (217) 244-4789

The start date is as soon as possible.

For more information about our research program, please look at:

http://L2R.cs.uiuc.edu/~cogcomp/

University of Iowa

Computer Science Department

Tenure-Track Position

The Computer Science Department seeks applications for one tenure-track assistant professor position commencing August 2008. Applications from all areas of computer science and informatics are invited. We also welcome applicants doing research at the frontiers of computing in connection with other disciplines.

The Department offers BA, BS, and PhD degrees in Computer Science, and in Fall 2007 added BA and BS degrees in Informatics (see http://www.cs.uiowa.edu/Informatics). Candidates must hold a PhD in computer science, informatics, or a closely related discipline. Applications 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 directly to us (PDF email preferred). Apply: Via the Web at: http://www.cs.uiowa.edu/hiring/ Or by email to: cs_hiring@cs.uiowa.edu Or by U.S. mail to:

Faculty Search Committee
Computer Science Department
University of Iowa
14 MacLean Hall
Iowa City, IA 52242-1419

The University of Iowa is an affirmative action/equal opportunity employer. The Department and the College of Liberal Arts and Sciences are strongly committed to diversity and maintain ties to programs on campus that provide a supportive environment for women and minorities, such as the Women in Science and Engineering program. The strategic plans of the University, College, and Department reflect this commitment to diversity.

University of Maryland, College Park

Department of Computer Science

Tenure-Track Faculty Positions

The University of Maryland, College Park, invites applications for faculty positions at the Assistant, Associate, or Full Professor level in the Center for Bioinformatics and Computational Biology (cbcb.umd.edu), to be appointed jointly with the Computer Science Department (www.cs.umd.edu). After hiring a new Director in 2005, the University committed the resources to recruit six additional tenured and tenure-track faculty for the Center as part of an effort to maintain a world-class research group in bioinformatics, computational biology, computer science, genetics, and genomics. Parallel searches are ongoing in the areas of evolutionary biology and human genomics.

All applicants are expected to have strong publications and research experience in the areas of biological science and computing. Senior candidates will be expected to lead internationally prominent research programs in computational aspects of genomics and bioinformatics. Experience in interdisciplinary collaboration is an important asset. Exceptional candidates from areas outside of computer science are also encouraged to apply.

The faculty will be housed in contiguous space dedicated to the Center, and will have access to a high-end computing infrastructure through the University of Maryland Institute for Advanced Computer Studies.

Applicants should apply online at:

https://www.cbcb.umd.edu/hiring/online/2008

Applications should include a cover letter, curriculum vitae, and a description of research and teaching interests. Applicants at the Assistant Professor level should provide names and contact information for at least 3 people who will provide letters of reference. Applicants for Associate or Full professor should provide the names of at least 5 references. For full consideration, applications should be received by January 3, 2008; however applications may be accepted until the position(s) are filled.

The University of Maryland 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 of Language (CASL), established in 2003, is the nation's 10th university-affiliated research center. Its mission is to conduct state-of-the-science research that results in improved performance on language tasks relevant to the work of government language professionals.

CASL is seeking to expand its research team in Human-Computer Interaction and Human Language Technology. Candidates for these positions must have an earned 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 complex, 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 and be willing to obtain a security clearance.

For more information about CASL and these positions, please visit out website at:

http://www.casl.umd.edu/employment.php

Positions open until filled.

The University of Maryland is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.

University of Massachusetts Boston

Department of Computer Science

Assistant Professor Position

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, an MS with an emphasis on software engineering, and a Ph.D. in computer science. We seek to strengthen our research program significantly. Current faculty interests include biodiversity informatics, computer and human vision, data mining, databases, networks, software engineering, system modeling, and theoretical computer science.

Strong candidates will be considered from any area of Computer Science, but preference will be given to a candidate who does research in artificial intelligence, particularly evolutionary computing, knowledge representation, machine learning or neural networks. Evidence of significant research potential and a Ph.D. in computer science or a related area are required.

We offer a competitive salary and a generous start-up package.

Send cover letter, curriculum vitae, statements about research and teaching, and the names and email addresses of three references to:

Search 680E at search@cs.umb.edu.

Our campus overlooks Boston harbor; our faculty and students enjoy professional life in a center of academia and the software industry.

For more information, visit us at: http://www.cs.umb.edu.

Review of applications has begun and will continue until the position is filled.

UMass Boston is an affirmative action, equal opportunity Title IX employer.

University of Massachusetts, Lowell

Department of Computer Science

Tenure-Track Position

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 at the time of appointment. Preference will be given to outstanding candidates with demonstrated potential to develop and sustain an external funded research program in the area of computer systems security. 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 tenured and 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: hiring@cs.uml.edu In addition, have three letters of recommendations sent directly. Visit http://www.cs.uml.edu/jobopening 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 Sciences and conduct interdisciplinary research with scientists in various parts of the university. The fellow is expected to teach courses/seminars in data mining or in a related area. The rank and specialization for the visiting positions are open.

The visiting faculty are expected to teach undergraduate/graduate courses in computer science and conduct research. When appropriate, membership in the Center for Computational Sciences can be arranged, which should provide outstanding collaborative research opportunities.

(continued)

Professional Opportunities

All applicants should apply online (http://www.cs.miami.edu/search/).

University of Miami is an affirmative action, equal opportunity employer.

University of Missouri at Columbia

Computer Science Department

Postdoctoral Fellow Position

The Computer Graphics and Image Understanding Lab (CGUL) in Computer Science Department at University of Missouri is seeking a postdoctoral fellow to work on projects related to 3D image-based modeling. The candidate must have a PhD and have expertise in the area of Computer Graphics, Computer Vision, Shape Modeling and Image Understanding.

Initial appointment as a postdoctoral fellow will be for one year with possible renewal for an additional 2-3 years. A PhD in computer science or a closely related field is required. Applications for the postdoctoral position are accepted on a continuing basis and starting dates can be adjusted, however, a starting date of January 2008 is ideal.

Send curriculum vita and contact information for three references to:

umcgul@gmail.com

University of Missouri is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

University of Missouri-Rolla

Department of Computer Science

Tenure-Track Faculty Position

http://www.cs.umr.edu/

The Department of Computer Science at the University of Missouri-Rolla is seeking outstanding applicants for tenure-track faculty positions, preferably at the level of Assistant Professor. The department concentrates its research efforts in the following three areas:

1) Critical Infrastructure Protection,
2) Software Engineering, and
3) Bioinformatics

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. Applicants must have a demonstrated record of research publication, funding potential, and evidence of quality teaching commensurate with the position they seek. Applicants should hold a Ph.D. in Computer Science or a closely related field by the appointment start date.

The Department has 17 full-time faculty positions including a recently established endowed chair, with some joint appointments in Computer Engineering, and grants the BS, MS, and Ph.D. degrees. The Department has a cohesive faculty with rapidly growing levels of funded research. Opportunities for interdisciplinary research abound and such activities are strongly encouraged with several campus-wide research centers. Researchers at the University of Missouri-Rolla will benefit from close collaborations with industrial partners, a science and technology park established by the university to attract high-tech industry, and from a generous intellectual property policy. Salary is competitive with Big-10/ Big-12 universities.

The University of Missouri-Rolla is the primary science and engineering campus of the University of Missouri system. It draws an excellent student population with the incoming freshman class in the top 10% of the nation. Its 284-acre campus is situated amid the scenic rolling hills of the Ozarks and near some of the Missouri's most beautiful spring-fed creeks, caves, and other natural formations. Rolla, a community of about 17,000 residents, was named one of the best small towns in America according to Crampton's The 100 Best Small Towns in America. The cosmopolitan city of St. Louis and its international airport are within easy driving distance, and many recreational opportunities are near by.

Interested applicants should send 1) a vita, 2) a statement of research and teaching interests, 3) any supplementary evidence of research, teaching, and communication skills, and 4) three letters of reference to:

Human Resource Services
Reference Numbers: 00031155 & 00030659
University of Missouri-Rolla
1870 Miner Circle
Rolla, MO 65409-1050
hrsinfo@umr.edu

The committee will begin reviewing applications in January 2008. Applications will be accepted until the positions are filled, with appointments expected to start August 2008.

UMR is an AA/EEO employer. Females, minorities, and persons with disabilities are encouraged to apply.

University of Nebraska at Omaha

College of Information Science & Technology

Tenure-Track Position

The University of Nebraska at Omaha's (UNO) College of Information Science & Technology invites applications from faculty candidates for a tenure track position in Information Assurance at the Assistant Professor level starting fall 2008. Candidates must possess an appropriate doctorate or all but the dissertation (ABD) in Computer Science, Management Information Systems or a related field with a specialization in Information Assurance (or related areas) from a nationally recognized program.

To apply and for more information please visit our web site at: http://careers.unomaha.edu

All applicants are required to submit a cover letter, curriculum vita and a list of references via the web site. Review of applications will begin immediately and will continue until the position is filled.

UNO has a strong commitment to achieving diversity. We encourage applications from under-represented groups, women and persons of color.

University of New Mexico

Department of Computer Science

Sr. Research Engineer 2

The Scalable Systems Laboratory in the University of New Mexico Department of Computer Science seeks a highly-qualified researcher for kernel-level research, programming, and software development, as well as other applied computer science research based on current lab grant and contract needs. A well-qualified candidate will have significant experience with kernel-level systems programming in C, C++, and/or assembly language, network protocol design and implementation, and/or system software development for high-performance or cluster computing systems. Significant technical writing experience and experience working in an academic research environment are desired but not required.

The UNM Scalable Systems Lab is an active computer science research group with projects in configurable operating systems and virtualization techniques, sensor networks, high-end I/O and monitoring systems, and large-scale communication systems. The laboratory comprises multiple faculty members, postdoctoral researchers, and graduate and undergraduate researchers, and actively collaborates with researchers at Sandia, Los Alamos, and Oak Ridge National Laboratories, Intel Corporation, IBM Research, and Sun Microcomputers. Laboratory facilities include a number of small and medium scale cluster and sensor systems, with access to large-scale systems available through laboratory industrial and government partners. Funding for laboratory research comes from a wide range of sources, including industrial partners, the National Science Foundation, U.S. Department of Energy, U.S. National Nuclear Security Administration, and the Defense Threat Reduction Agency.

Applications for this position must be submitted via eJOBS.

Go to: http://ejobs.unm.edu to apply. Call 505-277-6947 for questions.

The University of New Mexico is an Equal Opportunity/ Affirmative Action Employer and Educator.

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 two tenure track faculty positions, one at Assistant Professor and one at Associate Professor rank. The successful candidate should have an earned doctorate in computer science or a related area, a strong record of externally funded research (commensurate with rank), and a commitment to teaching as an essential component of scholarship. Our University values diversity and is seeking exceptional scholars who can contribute to the diversity and excellence of our academic community through research, teaching, and service.

We are especially interested in candidates in the areas of knowledge discovery and data mining, music information retrieval, and robotics. However, exceptional candidates in any area that complements our current research strengths will be considered. The first application deadline is January 31, 2008. If not filled, applications will be reviewed weekly thereafter until the search is closed.

The University of North Carolina at Charlotte is a 22,000 student research university on a 1,000 acre campus in one of the South's most vibrant and livable cities. The Department of Computer Science, located within the College of Computing and Informatics, has approximately 350 undergraduate computer science majors, 140 MS students and 60 Ph.D. students. Our current research strengths are in visualization, analysis, and management of data; intelligent, robotic, and interactive systems; game design and development; and wireless and mobile ad hoc networks.

Applications must be submitted electronically at http://jobs.uncc.edu and should include a letter of application, curriculum vitae, and the names and contact information of at least three references. The University of North Carolina at Charlotte is an EOE/AA employer and an ADVANCE Institution. For additional information, please visit our website at: www.cs.uncc.edu or email cs-search@uncc.edu

University of North Texas

Department of Computer Science and Engineering

Faculty Position

The Department of Computer Science and Engineering at the University of North Texas invites applications and nominations for one faculty position at the level of Associate Professor to start in Fall 2008. Applicants are required to have expertise in Security and Information Assurance, Cyber Trust or a closely related area is required. The position requires an earned doctoral degree in Computer Science, Computer Engineering or a related field. Applicants must demonstrate an established record of quality teaching, funding history, graduate student supervision and national recognition.

The CSE department offers a full complement of degrees in Computer Science and Computer Engineering. More information about the department can be found at http://www.cse.unt.edu/

Interested persons should send applications and nominations including a detailed curriculum vitae and have at least three letters of reference sent to:

Faculty Search Committee
Department of Computer Science and Engineering
P.O. Box 311366
Denton, Texas, 76203
or electronically to:
faculty_search@cse.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 educational programs.

University of North Texas, Dallas Campus

Computer Science and Information Technology Program

Faculty Position

The University of North Texas is seeking applications to fill a faculty position at its Dallas Campus in Computer Science and Information Technology Program. This is a non-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 standard University of North Texas, College of Engineering, and appropriate academic department's personnel rules and procedures apply to this position. Salary is competitive and commensurate with experience. Summer employment is contingent on student demand and funding.

The assistant professor will teach on the UNT Dallas Campus and will be expected to teach courses primarily in information technology and computer science while working with community and industry groups to develop enrollment in the Bachelor's of Arts degree in Information Technology as well as the BS in Computer Science. The workload of the faculty member in this position will be teaching a minimum of three courses per semester. In addition, the candidates must be willing to develop a record of service to the academic program, the university, and the community.

The annual evaluation of the assistant professor will be conducted according to the guidelines of an appropriate academic department. Comments and observations from the Vice Provost of the Dallas Campus will be requested as part of the annual evaluation process. The individual will be housed at and provide instruction to the students at the UNT Dallas Campus, as well as by video conference to the UNT Denton campus.

Candidates must have an earned doctorate in Computer Science, Computer Engineering or a related field. Prior successful teaching experience at the university level and experience with distance learning is highly preferred. Successful experience in Information Technology, Software Engineering or other technology areas is desirable. Review of applicants will begin immediately and continue until the position is filled.

Submit letter of application, complete curriculum vitae, and have at least three letters of reference mailed to:

Dr. Krishna Kavi, Chair
Computer Science and Engineering
University of North Texas
PO Box 311366
Denton, TX 76203

The University of North Texas is an Equal Opportunity/Affirmative Action institution committed to diversity in its educational programs, thereby creating a welcoming environment for everyone.

Professional Opportunities

University of Ontario Institute of Technology

Faculty of Science

Tenure-Stream or Tenured Position

Competition Number: UOIT07-74

The Faculty of Science invites applications for a tenure-stream or tenured position in Computer Science at any rank. This position is subject to budgetary approval, and would start at a mutually agreeable time, but not later than July 2008. Applicants with research expertise in the areas of parallel/distributed computing, visualization, digital media, systems or bioinformatics are particularly encouraged to apply. Applicants should possess a PhD in Computer Science or an appropriate related field, a strong academic background, and a record of research excellence.

The Faculty of Science offers an Honours Bachelor of Science degree program in Computing Science, including specializations in Digital Media and Digital Forensics; an Honours BSc program in Bioinformatics is under development for the fall of 2008. The Faculty also offers Honours Bachelor of Science programs in Applied and Industrial Mathematics, Biological Science, Chemistry, Forensic Science and Physics, as well as Concurrent Education and Science programs in conjunction with UOIT's Faculty of Education. MSc programs in Modelling and Computational Science, Applied Bioscience, and Materials Science commenced in 2007, and an MSc program in Computer Science is under development for the fall of 2008.

Applications will be accepted until January 15, 2008 or until suitable candidates are found. For full details about this position and instructions on how to apply, please visit the Employment Opportunities section of our website at:

www.uoit.ca

Details about the Faculty of Science can be found at:

www.science.uoit.ca/

UOIT is an equal opportunity employer and welcomes applications from qualified women and men, including members of visible minorities, Aboriginal peoples and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

University of Oregon

Computer and Information Science Department

Post Doctoral Positions

The Computer and Information Science Department at the University of Oregon invites applications for potential postdoctoral positions. All candidates must have a PhD degree in Computer Science or related field. Positions are available on an ongoing basis to conduct research within different research groups.

Please see: http://www.cs.uoregon.edu for information on current research within the department. We invite applications from candidates who share our commitment to diversity. Applications will be accepted on a continuous basis and the pool will remain active until positions are filled. Please send a cover letter stating your interest along with a current CV and email addresses of 2 references to:

Jan Saunders, Office Manager
Computer and Information Science Department
University of Oregon
Eugene, OR 97403-1202
or by email to jan@cs.uoregon.edu

AA/EO/ADA institution committed to cultural diversity.

University of Pennsylvania

Department of Electrical and Systems Engineering

Faculty Positions

The University of Pennsylvania seeks outstanding individuals for tenure-track or tenured faculty positions in the Department of Electrical and Systems Engineering to start July 1, 2008. Applicants must have a Ph.D. in Engineering or equivalent. We are seeking candidates in the general area of communication systems with an emphasis on the "physical layer," or more generally on all aspects aimed at leveraging recent progress in and capabilities of new physical layer systems. Experimentally minded candidates are especially encouraged.

The University seeks individuals with exceptional promise for, or proven record of research achievement, who will excel in teaching undergraduate and graduate courses and take a position of international leadership in defining their field of study. The department is actively engaged in cross-departmental collaborations in areas such as computer science, mechanical engineering, bioengineering and materials science, and candidates interested in multi-disciplinary activities are particularly encouraged to apply.

Interested persons should submit an application by following the instructions posted at the Faculty Recruitment Web site at:

http://www.ese.upenn.edu/jobs

The University of Pennsylvania is an Equal Opportunity Employer. Minorities/ Females/ Individuals with Disabilities/ Veterans are encouraged to apply.

University of Pennsylvania

Department of Electrical and Systems Engineering

Tenure-Track or Tenured Faculty

The University of Pennsylvania seeks outstanding individuals for tenure-track or tenured faculty positions in the Department of Electrical and Systems Engineering to start July 1, 2008. Applicants must have a Ph.D. in Engineering or equivalent fields. Suitable candidates in the areas of modeling, design, fabrication and characterization of nanostructures and devices (e.g., nanophotonic, nanophononic, nanoelectronic, molecular electronic or other novel computational devices and systems) will be considered. Candidates should be prepared to collaborate with faculty in appropriate related areas such as materials science, bioengineering, physics, chemistry, chemical engineering, and/or mechanical engineering. The University seeks individuals with exceptional promise for, or proven record of, research achievement who will excel in teaching undergraduate and graduate courses and take a position of international leadership in defining their field of study.

Interested persons should submit an application by following the instructions posted at the Faculty Recruitment Web site at:

http://www.ese.upenn.edu/jobs

The University of Pennsylvania is an Equal Opportunity Employer. Minorities/ Females/ Individuals with Disabilities/ Veterans are encouraged to apply.

University of Puerto Rico at Mayaguez

Department of Electrical and Computer Engineering

Tenure-Track Positions

The Department of Electrical and Computer Engineering (ECE) of the University of Puerto Rico at Mayaguez (UPRM) invites applications for tenure-track positions in Computer Sciences and Engineering. The Department is interested in attracting faculty in the area of software engineering, databases or networking. Candidates are expected to make important contributions to research activities being conducted under the doctoral program in Computing and Information Sciences and Engineering (CISE), either by enhancing and strengthening current projects or starting new research tracks.

Applicants must possess a PhD degree in computer science or computer engineering or closely related field, and demonstrate strong potential for excellence in research. If applicant's native language is not Spanish, applicant should be able to communicate fluently in English, and by the end of the tenure-track appointment be able to communicate effectively in Spanish.

The ECE Department offers a Baccalaureate and Masters in Computer Engineering and the PhD in CISE jointly with the UPRM Department of Mathematics.

For further information please visit www.ece.uprm.edu and www.phd.cise.uprm.edu or call 1-787-833-3338.

Applications with a curriculum vitae, three reference letters, and MS and PhD original transcripts, should be sent no later than February 29, 2008, to:

CISE Search Committee
University of Puerto Rico at Mayaguez
P.O. Box 5028
Mayagüez, PR 00681-5028

Or in PDF format to cisephd@ece.uprm.edu

Appointments will be made by July 1, 2008.

UPRM is an equal opportunity affirmative action employer.

University of Texas at Arlington

Computer Science & Engineering Department

Tenure-Track Positions

The University of Texas at Arlington (UT Arlington), Computer Science and Engineering (CSE) 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 (COE) at UT Arlington, one of the largest engineering colleges in Texas. Committed to excellence in research and teaching, UT Arlington is constructing a new state of the art $110 million research building to house primarily the CSE and Bioengineering departments. UT Arlington's location in the heart of a multi-ethnic and industrially advanced metropolitan area makes it easy to collaborate with nearby universities and hospitals, many located not more than 35 minutes away. Situated between the city of Dallas (25 min. east of campus) and the city of Fort Worth (15 min. west of campus), UT Arlington sits in a telecommunications / high technology "corridor", in one of the nation's fastest growing technological regions, with DFW airport about 20 min. north of campus. Industrial funding opportunities exist in areas such as micro-robotics, nanotechnology, RFID and biometrics.

Since Fall 2006, the CSE department has hired six (6) new tenure track faculty from top US institutions. CSE faculty includes active researchers, many with multiple grants and established research programs. Major department strengths include databases, networks, mobile and pervasive computing, computer vision, bioinformatics and biomedical computing, and artificial intelligence applications. CSE faculty members actively pursue government as well as state funding opportunities through the Texas State educational system. The department has interdisciplinary projects with UT Southwestern Medical Center at Dallas, University of North Texas Health Science Center in Ft. Worth, UT Arlington's Automation and Robotics Research Institute, the School of Nursing, and the College of Science, among others. Through its Computational Science Alliance, CSE has engaged in numerous projects ranging from high-energy physics and systems biology, to high performance computing and border security.

The CSE department is committed to teaching excellence and has many activities to mentor its students and junior faculty. The department's goal is to reach a high rank within the next five years. CSE has strong support from the College of Engineering and all top UT Arlington administration, from the State of Texas, alumni, and industry, thus enabling it to plan ahead with confidence and look forward to a bright future. Its friendly environment and excellent support staff help incoming faculty and students feel at home and thrive.

Applicants must have an earned doctorate in computer science, computer engineering, or a closely related field at the time of employment and a commitment to teaching and scholarly research. Applicants are expected to have shown an excellent record of research leadership and initiative (for tenured faculty), outstanding professional accomplishments and publications and demonstrated ability to collaborate in large or small teams. The faculty openings will be filled by August 2008. Screening of applications will continue until the positions are filled. Interested persons should submit a letter of application, a resume, best papers, and reference letters online (hardcopy or email applications are not accepted) at:

http://www.cse.uta.edu/recruiting/

For further information concerning the search, please contact Prof. Dave Kung, search committee chair (Phone: 817-272-3605; search@cse.uta.edu).

You may visit the departmental website at:

http://www.cse.uta.edu

or contact the Department Chair, Prof. Fillia Makedon.

This is a security sensitive position, and a criminal background check will be conducted on finalists.

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

The University of Texas at Dallas

Erik Jonsson School of Engineering and Computer Science

Dean Position

The University of Texas at Dallas (UTD) seeks nominations and applications for the position of Dean of the Erik Jonsson School of Engineering and Computer Science. The Dean of the Jonsson School concurrently holds the endowed Lars Magnus Ericsson Endowed Chair. The Jonsson School, created in 1986, currently consists of 90 faculty members in the tenure system, many of whom are members of the original departments of Electrical Engineering and Computer Science. These founding departments subsequently have been augmented by the creation of interdisciplinary programs in Telecommunications Engineering, Computer Engineering, and Software Engineering. A department of Materials Science and Engineering will be inaugurated this coming spring, and departments of Bioengineering and Mechanical Engineering are in the process of being organized. This expansion of the School's scope of educational and research programs will entail further significant increases in faculty numbers.

The faculty of the Jonsson School generated more than $8 million of research expenditures from external grants and contracts during FY 2007 and had total research expenditures of more than $25 million. The current student enrollment profile of the Jonsson School includes 1500 undergraduates, 800 master's level students and 240 doctoral students, and the School is a national leader in the aggregate number of degrees

(continued)

Professional Opportunities

awarded in Computer Science. The School is housed in 330,000 square feet of office, lab and classroom space and is the principal occupant of the new $100-million, 190,000 square foot, Natural Sciences and Engineering Research Laboratory.

The great progress of the Jonsson School during its short history in terms of increasing student enrollment and degrees conferred, of growth in faculty numbers and faculty research funding, and in national recognition, has taken place in close cooperation with the major array of 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 Jonsson School will include working 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 programs and the established programs, continuing the development of the student body in size and quality, maintaining and expanding close, mutually advantageous partnerships with the business sector, and, most importantly, leading the Jonsson School faculty toward the goal of competing successfully with the nation's most distinguished engineering schools in terms of scholarly distinction and extra-mural research support. 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 accomplish this goal.

The University of Texas at Dallas was founded in 1969 as the successor to the Southwest Center for Advanced Studies, created by the founders of Texas Instruments. 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 degree programs offered through seven academic schools, UTD currently enrolls more than 14,000 students, 35% at the post-baccalaureate level, with strong concentrations in the Jonsson School and the School of Management. UTD has from its inception focused on academic excellence in its faculty and students. The freshman class consistently records the highest average SAT score of all Texas public universities, and members of the UTD faculty enjoy international recognition for their scholarly achievements.

Further information about UTD and the Jonsson School is available on the web at:

utdallas.edu

The Search Committee will commence review of applications and nominations in January 2008. To receive full consideration, applications should be received by February 15, 2008. Submissions should be directed to:

Dr. Bruce Gnade, Vice President for Research and Distinguished Chair in Microelectronics

Chair, Search Committee for Dean of the Erik Jonsson School

MP 15

The University of Texas at Dallas

800 West Campbell Road

Richardson, TX 75080-3021

Telephone: 972-883-6636

e-mail: gnade@utdallas.edu

The University of Texas at Dallas is an Equal Opportunity/Affirmative Action University

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 expertise in database systems. The University of Toronto is an international leader in computer science research and education, and 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 an 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 centre 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 received by January 31, 2008.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

University of Toronto

Department of Computer Science

Tenure Stream Assistant Professor

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 especially interested in candidates with research expertise in theoretical computer science, computer graphics, and human-computer interaction, but we may also consider exceptional applications from candidates in other areas of computer science. Appointments at more senior ranks may be considered in exceptional cases. The University of Toronto is an international leader in computer science research and education, and 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 an ability to pursue innovative research at the highest level, and a strong commitment to teaching.

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All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

University of Washington

Computer Science & Engineering

Tenure-Track Faculty Positions

The University of Washington's Department of Computer Science & Engineering and Department of Electrical Engineering have jointly formed a new UW Experimental Computer Engineering Lab (ExCEL). In support of this effort, the College of Engineering has committed to hiring several new faculty over the forthcoming years. All positions will be dual appointments in both departments (with precise percentages as appropriate for the candidate).

This year, we have two open positions, and encourage exceptional candidates in computer engineering, at tenure-track Assistant Professor, Associate Professor, or Professor, or Research Assistant Professor, Research Associate Professor, or Research Professor to apply. A moderate teaching and service load allows time for quality research and close involvement with students. The CSE and EE departments are co-located on campus, enabling cross department collaborations and initiatives.

The Seattle area is particularly attractive given the presence of significant industrial research laboratories, a vibrant technology-driven entrepreneurial community, and spectacular natural beauty.

Information about ExCEL can be found at:

<http://www.excel.washington.edu>

We welcome applications in all computer engineering areas including but not exclusively: atomics scale devices & nanotechnology, implantable and biologically-interfaced devices, synthetic molecular engineering, VLSI, embedded systems, sensor systems, parallel computing, network systems, and technology for the developing world. We expect candidates to have a strong commitment both to research and teaching. ExCEL is seeking individuals at all career levels, with appointments commensurate with the candidate's qualifications and experience. Applicants for both tenure-track and research positions must have earned a PhD by the date of appointment.

Please apply online at:

<http://www.excel.washington.edu/jobs.html>

with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of at least four references. Applications received by January 31, 2008 will be given priority consideration.

The University of Washington was awarded an Alfred P. Sloan Award for Faculty Career Flexibility in 2006. In addition, the University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of woman in academic science and engineering careers. We are building a culturally diverse faculty and encourage applications from women and minority candidates.

University of Washington

Computer Science & Engineering Department

Multiple Positions

The University of Washington's Department of Computer Science & Engineering has one or more open positions in a wide variety of technical areas in both Computer Science and Computer Engineering, and at all professional levels. A moderate teaching and service load allows time for quality research and close involvement with students. Our recent move into the Paul G. Allen Center for Computer Science & Engineering expands opportunities for new projects and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories as well as a vibrant technology-driven entrepreneurial community that further enhance the intellectual atmosphere.

Information about the department can be found on the web at:

http://www.cs.washington.edu

We welcome applicants in all research areas in Computer Science and Computer Engineering including both core and inter-disciplinary areas. We expect candidates to have a strong commitment both to research and to teaching. The department is primarily seeking individuals at the tenure-track Assistant Professor rank; however, under unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the rank of Associate Professor or Professor. We also seek non-tenured research faculty at Assistant, Associate and Professor levels, and full-time annual Lecturers and Sr. Lecturers. Applicants for both tenure-track and research positions must have earned a PhD. by the date of appointment; those applying for lecturer positions must have earned at least a Master's degree.

Please apply online at:

http://www.cs.washington.edu/news/jobs.html

with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of four references. Applications received by February 29, 2008 will be given priority consideration.

The University of Washington was awarded an Alfred P. Sloan Award for Faculty Career Flexibility in 2006. In addition, the University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers.

The University of Washington is an affirmative action, equal opportunity employer. We are building a culturally diverse faculty and encourage applications from women, minorities, individuals with disabilities and covered veterans.

University of Washington Tacoma

Institute of Technology

Tenure-Track Faculty Positions

The Institute of Technology at the University of Washington Tacoma is accepting applications for full-time, tenure-track faculty positions in the areas of Computing and Software Systems (CSS), Computer Engineering and Systems (CES), and Information Technology and Systems (ITS) beginning September 16, 2008. Commitments to high-quality teaching and to an externally funded research program are essential and excellent communication skills are required.

Please visit our website for full descriptions of each position: http://www.tacoma.washington.edu/hr/jobs/

Computing and Software Systems

CSS candidates with strengths in hardware-oriented CS (architecture and OS) or theoretical foundations will be given priority consideration, but we will consider all areas of expertise, with appropriate evidence of ability to teach core CS topics. The search is focused at the Assistant level but advanced candidates may be considered at the Associate and Full Professor levels. A Ph.D. in Computer Science or a closely related discipline, and an appropriately strong record of published research in computing is required.

Professional Opportunities

For additional information, please contact Dr. George Mobus at:

gmobus@u.washington.edu

Computer Engineering and Systems

CES candidates should have a strong background in a focused area such as: embedded and real-time systems, digital system design, or network design and security. The search is focused at the Assistant or Associate Professor levels but advanced candidates may be considered at the Professor level. A Ph.D. in Computing Engineering and Systems or a closely related field is required.

For additional information, contact Dr. Larry Wear at lwear@u.washington.edu or by phone at (253) 692-4538.

Information Technology and Systems

ITS candidates with applied research interests in asynchronous architectures/grid computing, graphics and game development, Web services and distributed computing, social networks and computing, collaborative learning technologies, databases, interaction and design, or information assurance & computer security are particularly encouraged to apply. Candidates will be considered at the ranks of Assistant or Associate Professor. A Ph.D. in Computer/Information Science, Information Technology, Information Systems or a closely related field is required by the time of appointment. Priority will be given to candidates with a background in industry or experience conducting/managing research programs outside academia.

For additional information, please contact Dr. Orlando Baiocchi at:

baiocchi@u.washington.edu or by phone at (253) 692-4727.

The University of Washington Tacoma, one of three UW campuses, is an urban undergraduate and master's level campus that is changing the face of its region economically, culturally, and architecturally. The Institute of Technology was created in 2001 by a public/private partnership to address the critical industry demand for baccalaureate and masters level computing and engineering professionals.

Please see http://www.insttech.washington.edu/ for additional information.

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

Ifaculty@u.washington.edu

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 Washington Tacoma is an affirmative action, equal opportunity employer. The University is committed to building a culturally diverse faculty and staff, and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans. University of Washington Tacoma faculty engages in teaching, research and service and is expected to participate in lower division teaching.

University of Wyoming

Computer Science Department

Department Head Position

The University of Wyoming's College of Engineering and Applied Science invites applicants for the position of department head for its Computer Science Department. The department, one of six departments in the college, offers B.S. (ABET accredited), M.S., and Ph.D. degrees in computer science, and seeks to continue growth of its undergraduate and graduate programs.

The position's responsibilities include leading the department's development, conducting disciplinary and interdisciplinary research, teaching at the undergraduate and graduate levels, and mentoring junior faculty. Additionally, the position entails collaborative efforts to utilize the research opportunities facilitated by a new National Center for Atmospheric Research (NCAR) super-computer to be based in Cheyenne, Wyoming.

The University of Wyoming is a thriving research university located in Laramie, Wyoming (pop. 28,000), 130 miles northwest of Denver. Laramie is a picturesque and friendly town offering a reasonable cost of living and easy access to outdoor activities in the Rocky Mountain region.

Additional information on the Department, College, and Laramie is available at:

http://www.cs.uwyo.edu/, http://www.eng.uwyo.edu/, http://www.uwyo.edu, and http://www.laramie.org

Required qualifications:

- Ph.D. in computer science, or closely related field.
- Eligible for appointment with tenure as full professor.
- Distinguished record of scholarship, strong record in teaching, and demonstrated record of leadership in the discipline.

Applications must include: 1) a letter of application, 2) curriculum vitae, 3) brief discussion of leadership experience, research goals, teaching philosophy, and 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 Head 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

The university adheres to the principles of affirmative action and welcomes applications from qualified individuals, independent of race, color, religion, sex, national origin, disability, age, veteran status, sexual orientation or political belief. We welcome applications from underrepresented groups, including women and people of color.

USC Viterbi School of Engineering

Computer Science Department

Tenure-Track Faculty Positions

The Computer Science Department of the USC Viterbi School of Engineering seeks to hire multiple tenure-track faculty this year. We are interested in outstanding faculty candidates at all levels, with priority in the areas of:

- Algorithms/Theory
- Machine Learning
- Graphics and Interactive Game Technologies
- Networks and Network Security

Applications must include a letter indicating the area of specialization, a detailed curriculum vitae, a statement on current and future research directions, and names of at least three professional references.

We expect candidates to have a strong commitment both to research and to teaching. All applicants must have earned a doctorate in computer science or a closely related field by the date of appointment. The department is primarily seeking individuals at the Assistant Professor rank.

These applicants should submit their applications online at:

http://www.cs.usc.edu/FacultyOnline/

However, we are also interested in exceptional senior candidates. They should contact the Department Chair, at <cschair@usc.edu>. Evaluation of all dossiers will start in mid-November 2007 but later applications will also be considered.

With over $160 million in research expenditures annually, the USC Viterbi School of Engineering ranks first nationally in research funding per faculty member, and US News and World Report consistently ranks the School's graduate program in the nation's top ten. The School's approximately 170 tenured and tenure track faculty includes 28 members of the National Academy of Engineering, eight winners of the Presidential Early Career Awards, 47 winners of NSF CAREER Awards, four winners of the Shannon Award, and a co-winner of the 2002 Turing Award.

The Viterbi School is home to the Information Sciences Institute (ISI), two active National Science Foundation-funded Engineering Research Centers (the Integrated Media Systems Center and the Biomimetic MicroElectronic Systems Center), and the Department of Homeland Security's first center of excellence, the Center For Risk and Economic Analysis of Terrorism Events (CREATE).

USC is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of underrepresented groups.

Various Institutions

Institute for Information Infrastructure Protection (I3P)

Postdoctoral Fellows Position

The Institute for Information Infrastructure Protection (I3P) seeks to advance its national research agenda through the postdoctoral fellowship program. The I3P fellowship program is building a nationwide cadre of investigators focused on critical research challenges and provides expanded research opportunities at I3P Consortium member institutions. Fellows will perform their research in residence at an I3P Consortium member institution.

For more information, and to apply, please visit:

https://www.thei3p.org/fellowships/callforproposals.html

Wayne State University

Department of Computer Science

Tenure-Track Faculty Position

The Department of Computer Science of Wayne State University invites applications for a tenure-track faculty position at the Assistant/Associate Professor level. Continuing our recent growth, we are seeking applicants in the areas of Software Engineering and Bioinformatics. Outstanding applicants in other areas will also be considered.

Candidates should have a Ph.D. in computer science or a related area. The successful candidate will have a strong commitment to both research and teaching, a strong publication record and potential for obtaining external research funding. Senior applicants should have strong publication and funding records.

Currently, the department has 19 faculty, 78 Ph.D. and 120 M.S. students. The Department's total annual R&D expenditures average between $2-3 million in research areas, including bioinformatics, software engineering, systems, databases and image processing. Our junior faculty benefit from an extraordinarily supportive environment as demonstrated by their success in securing two recent NSF CAREER awards, as well as other very competitive research funding. Faculty actively collaborates with many other centers and departments, including the School of Medicine, which is the largest single-campus medical school in the country, and the Karmanos Cancer Institute, a nationally recognized comprehensive cancer center.

More information about the department can be found at:

http://www.cs.wayne.edu

Wayne State University is a premier institution of higher education offering more than 350 undergraduate and graduate academic programs to more than 33,000 students in 11 schools and colleges. Wayne State ranks in the top 50 nationally among public research universities. As Michigan's only urban university, Wayne State fulfills a unique niche in providing access to a world-class education. The University offers excellent benefits and a competitive compensation package.

Submit applications online at http://jobs.wayne.edu, refer to Posting #034690 and include a letter of intent, a statement of research and teaching interests, a CV, and contact information for at least three references. All applications received prior to January 11, 2008 will receive full consideration. However, applications will be accepted until the position is filled.

Wayne State University is an equal opportunity/affirmative action employer.

Wright State University

Department of Computer Science & Engineering

Department Chair Position

The College of Engineering and Computer Science at Wright State University (WSU) in Dayton, Ohio is seeking exceptional candidates for the position of Chair of the Department of Computer Science and Engineering.

The Department of Computer Science and Engineering has 24 full-time faculty members, including eminent scholars and an open NCR Distinguished Professorship. The department offers undergraduate and graduate degrees in computer science and computer engineering. Student population includes over 400 undergraduates, 70 masters, and 30 doctoral students. The department has sustained remarkable growth in faculty strength and numbers, endowed positions, funded research, research centers, new and expanded facilities, and recent state initiatives for technology transfer and industrial incubation and collaboration. The department is well positioned for future expansion through initiatives aligned with emerging research priorities and support of the Dayton region, a recognized hub for IT in both defense and private sectors.

Please see: http://www.engineering.wright.edu/cse

Successful candidates are required to have an earned Ph.D. in computer science, computer engineering, or closely related discipline; a balanced record of scholarship, teaching, and service appropriate for the rank of full Professor; and documentation of research leadership. The successful candidate will develop a shared vision for enhancing educational and research programs in the framework of collegiality, enabling effective leadership of an innovative department.

Applicants should submit the following (electronic Word or PDF preferred): cover letter; curriculum vitae; statement of research; statement of education and leadership philosophies; and names and contact information of five references. Please submit applications via email to:

CSEChairSearch@wright.edu

or mail to:

CSE Chair Search Committee
College of Engineering and Computer Science
Wright State University
3640 Colonel Glenn Hwy
Dayton, OH 45435

Review of applications will begin January 7, 2008 and continue until the position is filled.

Wright State University is an AA/EO employer.

CRA CONFERENCE AT SNOWBIRD ♦ JULY 13 – 15, 2008 ♦ SNOWBIRD, UTAH
PRELIMINARY PROGRAM
Computer Science: The Transformative Science of Our Age

Computer Science is the transformative science of our age. Its principles are increasingly fundamental to many disciplines. We face ubiquitous opportunities to transform and unify other fields. We provide the engine and many of the ideas that drive innovation and discovery in virtually all disciplines, from science, engineering and medicine to marketing, fine arts and humanities. This year's Snowbird will explore this theme and the implications it has for what we teach and where our research will lead the world.

About the Snowbird Conference: The biennial CRA Conference at Snowbird is the flagship *invitation-only* conference for the leadership of the North American computing research community.

Invitees: 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 top-rated ski resort in the winter, off-season at Snowbird offers hiking amidst 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 plenary session on the Computing Community Consortium.**

This year at Snowbird: Shree Nayar, 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 and A. Nico Habermann Awards.

Below is a preliminary 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
Chair: Cita Furlani (NIST)
Speaker: Irving Wladawsky-Berger (MIT)

2. Industrial Hiring Expectations: The Big Picture
Chair: Alon Halevy (Google)
Speakers: Alan Eustace (Google); Eric Grimson (MIT)

3. Computing Research Funding: The Federal Picture
Chair: Andrew Bernat (Computing Research Association)
Speaker: Jeannette Wing (National Science Foundation)

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

Workshops

- **Defining the Computer Science in Biomedical Informatics: Opportunities for CS Research in Biomedical Domains**
  In recent years, biomedical informatics (sometimes called medical informatics or health informatics) has emerged as an important and well-received discipline at many medical schools, often involving close collaborative relationships with computer science departments at the same institution. This sessionwill define the field of biomedical informatics, identify its scope and relationship to computer science, and characterize some of the fundamental research areas to which computer scientists can contribute. The goal is to enhance interactions between researchers in biomedical informatics and computer science, while also addressing the differences between the fields and the resulting synergies that exist.
  Co-Chairs: Edward Shortliffe (University of Arizona); Sethuraman (Panch) Panchanathan (Arizona State University)

- **Innovative Undergraduate Curricula**
  Students today have a wide variety of choices. Computer science educators are challenged to develop innovative curricula that draw in students (perhaps more broadly than we have before), motivates and retains them, and still prepares them to compete in a global marketplace for research and development. Departments across the country are inventing innovative curricula to meet these challenges. The panel will feature representatives from several of these departments to discuss what they are trying and learning.
  Chair: Mark Guzdial (Georgia Tech)

- **Graduate School Immigration and Emigration**
  The transition from undergraduate to graduate student and from graduate student to faculty or industry does not always go smoothly for students. How can graduate programs assist students in making these transitions? This panel will describe programs and courses designed to help students prepare for these changes.
  Chair: Kim Bruce (Pomona College)

- **Communicating the Excitement of CS: K-12 Outreach Practices**
  As many departments struggle with declining or stagnant enrollments in computer science, the mismatch between the wealth of career opportunities for CS graduates and the perception of such opportunities among young people poses a significant challenge. The problem is particularly acute with young women and under-represented minorities. Outreach programs for middle and high school students, aimed at dispelling myths and communicating the excitement and the range of opportunities for CS graduates, is an important element of broadening the pool of potential majors. This session will present and discuss a series of outreach programs.
  Chair: Eric Grimson (MIT)

- **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, video and photo collections and simple application creation frameworks. In addition, it has amplified the importance of relationships between users that are represented in social networks. The emergence of this new and varied content has led to a flurry of research activity that aims to mine the content and infer useful data from it (e.g., sentiment analysis, network analysis). This session presents a sampling of some recent work in this area, and exposes some of the important directions for future research in Computer Science.
  Chair: Natalie Glance (Intelliseek Applied Research Center)

- **Research on a Small Scale**
  An increasing number of CS faculty at relatively small universities and colleges are developing research programs. Due to factors such as limited facilities, teaching loads or institutional culture, research projects tend to be "small scale." This panel session will address the contributions that such work makes and/or could make to the research community as well as to the institution, funding opportunities geared toward this sort of research, and problems and pitfalls unique to such a program.
  Chair: Karen T. Sutherland (Augsburg College)

- **New NRC Rankings and the Taulbee Report**
  For many years, CRA has used ranking strata in itsTaulbee Survey that reflected NRC rankings. The new 2008 NRC study results will cause the Taulbee Survey reporting strategy to come under review for possible change to reflect the NRC findings. This workshop will include a presentation about the NRC study methodology, and its implications for the Taulbee Survey's methodology and reporting.
  Chair: Stuart Zweben (Ohio State University)

- **Industry/Academic Partnerships**
  The "three Rs" of industry-academia collaboration, Research, Recruiting, and Relevant skills, are just some of the many dimensions both parties can work along to reap the benefits of a win-win partnership. The goal of this panel is to explore a number of successful industry-academia models for research collaboration through the experience of non-US academic colleagues, with the view to learn in what ways US models have been adjusted to better match local cultural, legal, and other relevant practices, or how they may fundamentally differ from US-based efforts.
  Chair: Gabby Silberman (CA Labs)

- **Paper and Proposal Reviews: Is the Process Flawed?**
  The review process for computer science publications and proposals is crucial to the health of our field, especially for new researchers seeking to establish themselves in the field. Current and past processes have been criticized for a variety of reasons, including timeliness of decisions; fairness, especially to "outsiders;" and openness. The responses have included turnaround time guarantees and process changes. Some journals and conferences have moved to double-blind reviewing, though not without strong opposition. NSF moved some time ago from a journal-style review process to doing most reviews via panels that meet physically in one location. Meanwhile, conference program committees have moved in the opposite direction. Many do not meet physically and instead use an asynchronous on-line process. This panel will discuss the concerns that have led to change, the degree to which process changes have addressed these concerns and/or created new problems, and what further steps ought to be taken from here.
  Chair: Hank Korth (Lehigh University)

- **Wikinomics & Researchnomics: Accelerating CS Research**
  This panel will discuss the implications of "wikinomics," i.e., web-enabled collaboration, for the computing research community. How has the Internet's culture of open collaboration/dissemination impacted the "pace" of computing research, i.e., is the productivity of our community improving? To what extent has CS research been "democratized?" What are the success stories and where are the failures? What are the negative implications/risks arising from "open collaboration?" Is there a balance to be struck between centralized and distributed research? What are the implications for—and the future role of—intellectual property and the commercialization of CS research? Looking beyond wikinomics, what other opportunities are there to change our "business practices" and accelerate CS research?
  Chair: David Tennenhouse (New Venture Partners, LLC)

- **Practical Solutions to a Continuing Problem: Sexual Harassment and Gender Discrimination**
  Many people believe that, at least within academia, explicit sexual harassment is a thing of the past, and more subtle forms of gender discrimination have waned. Unfortunately, there continue to be disturbing incidents of harassment, and "implicit bias" is a pervasive phenomenon, particularly in male-dominated fields such as computer science. This interactive session: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.
  Chair: Susanne Hambrusch (Purdue University)

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
Co-Chairs: Susanne Hambrusch (Purdue); Darrell Whitley (Colorado State)

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; Avaya; CA Labs; IBM; IEEE-Computer Society; Intel; Microsoft Research; Mitsubishi Electric Research Labs; Sun Microsystems; and USENIX.

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