

# COMPUTING RESEARCH NEWS

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## Science Does Poorly in Funding Stopgap

By Peter Harsha

After failing to meet the end-of-fiscal-year deadline on the annual appropriations bills necessary to keep the Federal government functioning, Congress and the Administration agreed on a stopgap funding measure in late September that will ensure that Federal science agencies in 2009 will face a fourth straight year of reduced budgets.

The stopgap measure, called a "Continuing Resolution" (CR), will fund government agencies through March 6, 2009—more than halfway into the new fiscal year—at the same funding levels they received in FY 2008. For agencies like the National Science Foundation, National Institute of Standards and Technology, and Department of Energy Office of Science, this steady-state start to FY 2009 represents a cut in funding when taking into account the effects of inflation. In fact, because the CR references the funding levels contained in the FY 2008 Omnibus Appropriations and not the increased funding levels the agencies received as the result of a mid-year "emergency supplemental" appropriation, it represents a considerable cut compared to those FY 2008 final budgets.

Unless funding for science agencies is increased significantly after the current CR expires in March, the agencies appear to be headed for a fourth straight year of declines in constant-dollar funding. According to NSF, after adjusting for inflation, federal research and development funding fell 0.2 percent between FY 2005 and FY 2006, and fell an additional 1.6 percent from FY 2006 to FY 2007. NSF has not released figures yet for FY 2007 to FY 2008, but CRA's own analysis of the numbers shows a likely decrease of greater than 1.0 percent after adjusting for inflation.

The fact that Congress ended up passing a stopgap CR was not a surprise to many in the science advocacy community. On the *Computing Research Policy Blog*, discussions of the likelihood of a CR or other related appropriations meltdown have been posted since February 2008 (see, for example, our first analysis of the FY 2009 Budget Request: <http://www.cra.org/govaffairs/blog/archives/000652.html>).

After the FY 2008 appropriations process broke down over a failure to agree on an overall spending level, it seemed clear that a similar outcome

was likely for FY 2009. After all, the dynamics of the process had not changed: a Democratic majority in Congress not quite large enough to overcome a Presidential veto, and a President with allies in Congress who pledged to veto any spending over his requested limit.

When the President threatened in his State of the Union Address in January 2008 to veto any appropriations bill sent to his desk that did not cut FY 2008 earmark levels in half, he virtually assured that he would not be around to see any of the final appropriations bills. Cutting spending levels by the amount the President requested would require significant cuts to Democratic priorities. With a new Administration guaranteed to be in place in late January 2009, it seemed highly likely that the Democratic leadership in Congress would simply delay passage of appropriations bills until after the November election at the earliest and reassess the funding landscape then. And indeed, that is essentially what they have done.

Predicting what might happen by the March 2009 expiration of the CR is made very difficult by the large number of variables in play. As we go to press in early October, the most significant is the impact of a potentially \$700 billion+ federal bailout of the financial sector. It is not exactly clear how such a large expenditure—\$700 billion exceeds the total size of the Department of Defense budget, or

total spending on Medicare or Medicaid or Social Security in a single year—will be accounted for in Congress and what impact it might have on the discretionary spending numbers. It is also not clear what impact it will have on the attitudes of policymakers towards discretionary spending for other priorities like science funding. At a minimum, it seems likely that such a large payout may amplify so-called "deficit politics," perhaps making policymakers less inclined to see Federal discretionary spending rise at all and creating an environment where it may be hard to realize hard-won commitments to increase funding for science agencies.

The other unknown is how the new Administration will approach funding for federal science agencies. The good news for those in the science community is that both major candidates have committed to following the funding recommendations approved by Congress as part of the America COMPETES Act, which called for doubling the budgets of NSF, NIST and DOE Office of Science over seven years. However, how both candidates approach this commitment varies somewhat—and both will be affected

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## New CRA-W Co-Chairs Begin Three-Year Terms

Professor Carla E. Brodley, Department of Computer Science at Tufts University, and Dr. Kathleen Fisher, Principal Technical Staff Member at AT&T Labs Research, assumed their duties as co-chairs of CRA-W at its Steering Committee meeting October 16-18, 2008, in San Francisco.

Carla E. Brodley received her Ph.D. in computer science from the University of Massachusetts at Amherst in 1994. From 1994-2004, she was on the faculty of the School of Electrical Engineering at Purdue University, West Lafayette, Indiana. Professor Brodley's research interests include computer security, machine learning and knowledge discovery in databases. She has worked in the areas of intrusion detection, anomaly detection in networks, hardware support for security, classifier formation, unsupervised learning and applications of machine learning to remote sensing, computer security, and content-based image retrieval of medical images.

Kathleen Fisher received her Ph.D. in computer science from Stanford

University in 1996. Her research focuses on the design, implementation, and theoretical foundation of object-oriented programming languages as well as domain-specific programming languages for processing data. Dr. Fisher actively contributes to the field of programming languages, publishing papers in the top venues. The main thrust of her recent work has been in domain-specific languages to facilitate programming with massive amounts of ad hoc data. In particular, Dr. Fisher initiated and leads the PADS project—a system that allows data analysts to write declarative descriptions of ad hoc data, including both physical layout information and semantic constraints. From such descriptions, the PADS system generates tools and applications for manipulating the data. She is Chair of SIGPLAN, on the steering committee of CRA-W, and an editor of the *Journal of Functional Programming*.

CRA-W Co-Chairs oversee all activities and events of CRA-W, and their responsibilities have grown as CRA-W has grown. Co-Chairs are selected by

the CRA-W Steering Committee with advice from CRA-W; they serve three-year terms. Lori A. Clarke, professor of Computer Science at UMass Amherst, and Lori L. Pollock, professor of Computer Science at the University of Delaware, have served as co-chairs of CRA-W for the past three years, and have provided excellent leadership that has resulted in tremendous growth in CRA-W activities and events. (See photo on p. 6.) ■

### CRA Board Member Elections 2009

Nominations Due:

December 1, 2008

Details:

<http://www.cra.org/elections/nominees.09.html>

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# Expanding the Pipeline Internships Enhance Student Research and Educational Experiences

By Joann J. Ordille

Government and industrial internships can enhance the retention of students in the computer science pipeline by augmenting the educational and research experiences they receive in school.

In academic programs with large numbers of students where personal attention from professors may be limited, an internship can provide one-on-one or small-group mentoring from a computer science researcher or professional. Internships can provide access to equipment, training, expertise or other resources that may not be readily available in the academic environment. For example, a student who is researching Internet search might benefit from access to the data of a search engine company; or a student who is researching quality of service in networks might benefit from access to the experimental networks and operational logs of a communications company. This article summarizes some best practices for students, faculty, and industry researchers that can help them get the most out of internship experiences.

## Undergraduate and Graduate-Level Internships

Internships at government and industrial research labs sometimes serve to introduce undergraduate students to computer science research. In one case, the student identified an unsolved problem, and the mentor said, "Congratulations, you have just found your summer project." The student later reported that no teachers had ever acknowledged that there were unsolved problems, things they didn't know. When experience is limited to the classroom, a student may miss out on the thrill of research that could motivate advanced study. In several cases, interns reported exhilaration in their first research experience of tackling an unsolved problem.

Internships for graduate students vary depending on whether the student has identified a research area. Students who have not may have "Aha!" experiences similar to those experienced by undergraduates. A research lab internship may provide their first in-depth experience of research. It may also lead to the identification of a research area and a long-term collaboration with researchers in the sponsoring lab.

Graduate students who have selected a research area can seek internships with experts in that area. Such an arrangement provides an additional perspective and expands the student's professional contacts. It can lead to publications and other substantive research progress in the student's area. After the internship, the mentor may then be available to collaborate further, serve on the student's Ph.D. committee, provide recommendation letters, and advise and encourage the student. A student's advisor is often instrumental in arranging these internships

through existing collaborations and professional contacts.

Many students will decide to pursue development positions in industry or government rather than or before pursuing a research career. Internships are often critical to these students in establishing an experience base and references for later job applications. The internship application process itself provides training in how to apply and interview for a job. Whether an internship is research related or not, the sponsoring organizations typically give preferential treatment to past interns when hiring.

## Application Process

Students need to prepare summer internship applications early in the calendar year and, in some cases, by early December of the prior year. When decisions are made on a rolling basis, the advantage goes to students who apply early. Some organizations also hire interns at other times and for longer periods (e.g., 6 to 12 months). If the intern is coming to the United States from another country, a longer internship is often desirable due to the effort needed to obtain the proper visa.

Industrial internships in the United States are usually open to both US and non-US citizens. Foreign students with F1 visa status may work as interns as part of the curricular practical training (CPT) or optional practical training (OPT) programs. In CPT, the practical training must be an integral part of the course of study. One university implements this program as a summer course in which students enroll, and the content of the course is the internship.

In OPT, students are allowed to work for a limited number of months during or after their course of study. (The default limit is 12 months, but recent changes have allowed up to 29 months in some circumstances.) OPT requires that an application be submitted for federal government approval at least 3 months in advance of employment. Since OPT can provide an interval of employment after graduation while additional credentials to work in the US are obtained, it is beneficial for universities to provide mechanisms that allow students to use CPT for summer internships. This streamlines the internship approval process and allows students to preserve their OPT time for the first post-graduation employment.

The internship application process requires a resume, letters of recommendation, and an interview. A cover letter should accompany mail or email applications, and web applications when permitted. In addition to a resume, students often use web pages to provide supporting papers, software, or demonstrations. Applicants are typically interviewed by phone, possibly followed by an in-person interview. Various web sites provide sample interview questions (e.g.,

[www.softwareinterview.com](http://www.softwareinterview.com) and [www.acetheinterview.com](http://www.acetheinterview.com)), and advisors can assist students by having them practice for interviews. Attention should be paid to practicing both phone and in-person interviews because students often show differing levels of skill in communicating in these different settings. Following interviews, students should send thank-you letters summarizing the fit that they see with the prospective organization.

Cultural misunderstandings of the interview process have been known to occur. Students need to know that it is permissible to apply simultaneously to multiple prospective employers, but that continuing to interview once a position is accepted is not generally condoned.

Students often need assistance in sorting out multiple offers, or in pressuring a prospect for an offer while delaying a decision on other offers received. Some companies provide very little information about the job or the mentor involved in the internship. In these cases, a student may be able to obtain information by asking for more detail and possibly agreeing to sign a non-disclosure agreement. Ph.D. students may want to obtain assurances that they will retain intellectual property rights to their thesis work when working on related topics during their internship. Students are encouraged to contact their advisor or the university career counseling office when they need help with responding to offers.

## Resources for Finding an Internship

Resources are available online for identifying internship opportunities. The ACM provides internship information at [www.acm.org/crossroads/resources/internships.html](http://www.acm.org/crossroads/resources/internships.html). Many of these internships do not have a research component, but are helpful to students who are seeking work experience.

Research lab internships may be advertised on the sponsoring organization's web site. A list of research labs is available from the web site of the Computing Research Association's Committee on the Status of Women in Computing Research (CRA-W) at [www.cra.org/Activities/craw/projects/industry\\_researchers/main.html](http://www.cra.org/Activities/craw/projects/industry_researchers/main.html). By far, the best way to obtain a research lab internship is through personal contact between the student's advisor (or another faculty member) and the prospective research lab mentor. Some faculty have built relationships with researchers in various labs, and send students each year to intern with those researchers.

Searching the Internet can reveal other interesting and unusual internship programs. The NSF East Asia and Pacific Summer Institutes for US Graduate Students (EAPSI)

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## Message from the CISE AD

# A<sup>7</sup>: Anytime Anywhere Affordable Access to Anything by Anyone Authorized

By Jeannette M. Wing, Assistant Director of NSF for CISE

Imagine a world where computers are everywhere—we use them everywhere, but we see them nowhere because they are either invisible to the naked eye or so visible they are taken for granted.

Ubiquitous computing has been a dream since the late 1980s and is a reality today—to a degree. Looking ahead, computing will become even more ubiquitous along many dimensions, and for each dimension, at multiple scales. To convey the multiplicity of dimensions and scale, I have dubbed the 21<sup>st</sup> Century version of this vision “A<sup>7</sup>: Anytime anywhere affordable access to anything by anyone authorized.” Technological advances and societal expectations have expanded not only the what, who, and how since the 1980s, but also the relative importance of two dimensions, affordable and authorized. Fueling A<sup>7</sup> will be a degree of intelligence in our computing systems beyond what they display today. The power and versatility of tomorrow’s computing systems will be defined by the synergistic and complementary combination of human intelligence and machine intelligence.

**Anytime and anywhere:** The three dimensions of space and the fourth of time speak most obviously to ubiquity. As our cyber-systems become fully integrated into the physical world, we will seamlessly move in and out of cyberspace without even realizing it. Cyber-systems will be present at the

nano-scale with sensors monitoring our environment and at the tera-scale with earth-space networks providing a lens into our universe. Cyber-systems will need to respond in real time to prevent smart cars from colliding and smart airplanes from falling from the sky; at the other extreme, they will be the storage medium for preserving information forever.

**Anything:** We are digitizing everything from museum relics to our daily lives, and we are storing everything on devices from palm-sized gigabyte music players to data centers measured in terms of watts and acres, not bytes. What we access goes beyond digital artifacts to include people, services, and knowledge.

**Anyone:** Computing is for everyone: young and old, rich and poor, abled and disabled, literate and illiterate. Linguistic diversity will no longer be a barrier to communication; automatic language translation for learning, conducting business, and socializing will be presumed.

**Access:** We will want the ability to create, store, retrieve, search, analyze, control, modify, and delete anything. Only authorized users will have the relevant access rights. Access will be based on higher-level semantic queries than search strings of today. From neuro-machine interfaces to wireless power we will enjoy new means of untethered access.

**Affordable:** Cost is not a barrier to access. Africa’s cellphone boom is not only helping local entrepreneurs sell fish and buy plants, but is also changing voting and banking processes.

A second-order effect of affordable information technology is to make other services affordable: IT investments in China’s Yellow Sheep River provide access to education for children from poor families unable to afford to pay for school, bringing the region “from the 15<sup>th</sup> century to the 21<sup>st</sup>.”<sup>1</sup>

**Authorized:** Heightened concern for security and privacy by citizens since the innocence of the 1980s is warranted. Cyber-attacks as occurred in Estonia and Georgia are just the ones the public hears about. At the same time, the next generation thinks nothing of twittering minutiae about their lives on the Internet. Specification and enforcement of dynamic security and privacy policies will be tailored to individuals as well as to organizations.

### How CISE Programs Relate to A<sup>7</sup>

CISE’s core programs in its three divisions—Computing and Communication Foundations, Computer and Network Systems, and Information and Intelligent Systems—all play a role in meeting the scientific, technological, and societal research challenges of A<sup>7</sup> (see [www.cise.nsf.gov](http://www.cise.nsf.gov) for details of all programs).

In addition, the following CISE cross-divisional programs highlight some of the more ambitious aspects of this vision.

**Cyber-Physical Systems:** The new CPS program, joint with the Electrical, Communications, and Cyber Systems Division of the Engineering Directorate, addresses the interactions between the discrete and the continuous, where tight coupling between the cyber-system and its physical environment demands precise control and coordination. The CPS program spotlights the pressing challenge of reasoning in the presence of uncertainty where cyber-systems are truly anytime and anywhere.<sup>2</sup>

**Data-Intensive Computing:** How do we compute with oceans of data? Giving access to anything is not simply giving access to the bits—it is giving access to the knowledge those bits represent. To turn data into information into knowledge is one of our biggest challenges today.

**Trustworthy Computing:** By “trustworthy” we mean secure, reliable, privacy-preserving, and usable. We need foundational advances in security and privacy if we are to guarantee authorized access of the A<sup>7</sup> vision. We need to explore the balances between user control and user convenience without compromising security and by protecting privacy.

A<sup>7</sup>: Affordable Access  
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## Musings from the Chair

# These Are Interesting Times Indeed

By Dan Reed, CRA Board Chair



That awful gurgling noise you hear in the background is the global economy draining through the hole that is the U.S. subprime mortgage crisis.

We do not yet know how bad the economic downturn will be. However, if history is a guide, we can expect the weakened economy to depress rates of return on university endowments, tighten state budgets due to decreased tax revenues, constrain corporate R&D spending, and increase the already large pressure on federal government discretionary spending. In short, we are likely to experience constraints on faculty and researcher hiring and on overall education and research funding.

On the latter front, CRA continues to advocate that the America COMPETES Act be fully funded. You will recall that the Act authorizes greater

funding for physical science research in the United States, but no additional funding has been appropriated. (In Washington-speak, computing is a physical science.) As I am sure at least some of you have noticed, this is a U.S. Presidential election year, with its own set of implications for the future of science policy and research funding.

The American Association for the Advancement of Science (AAAS), the Council on Competitiveness, the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine, along with the leaders of many organizations, crafted fourteen questions for the Presidential candidates. (I signed in support on behalf of CRA.) This “Science Debate 2008” includes questions on approaches to research and innovation, education, climate change, energy security, health care, biomedicine and pandemics, space and other topics. The first, and perhaps most important, question concerns innovation:

*Science and technology have been responsible for half of the growth of the American economy since WWII. But several recent reports question America’s continued leadership in these vital areas. What policies will you support to ensure that America remains the world leader in innovation?*

I encourage you to review the responses from both candidates to all of the questions at [www.sciencedebate2008.com](http://www.sciencedebate2008.com). As I write this in early October, the election campaigns are in full flight. But by the time you read this, barring the unexpected, the election will have been decided and we will know which of these sets of responses is more likely to become reality.

I can also report that the President’s Council of Advisors on Science and Technology (PCAST), of which I am a member, also recommended that the new President appoint the Presidential Science Advisor as quickly as possible, enabling the Office of Science and

Technology Policy (OSTP) to begin operating expeditiously. My personal hope is that the new President will name the Science Advisor during the transition period after the election and before taking office.

Let us remember that the laurel in the race to the future sometimes goes to the sprinter, but more often the reward accrues to those who have the vision, foresight and persistence to run the long and sometimes enervating marathon that is education, intellectual innovation via research, and transfer of good ideas into practice. To hark back to our current financial crisis, the smart money bet (quite literally) is always on innovation.

**Dan Reed**, CRA’s Board Chair, is Microsoft’s Scalable and Multicore Computing Strategist. Contact him at [Daniel.Reed@microsoft.com](mailto:Daniel.Reed@microsoft.com) or his blog at [www.hpcdam.org](http://www.hpcdam.org) ■

# Faculty Recruitment Timelines: Proposal for Change

By Eric Grimson

The CRA Board of Directors has recently had discussions about problems in faculty hiring practices, especially related to the timing of the process and the associated gridlock that results as candidates wait for responses to their job applications.

Problems identified in the current process include:

- Candidates waiting to hear from particular schools defer decisions on pending offers, making it difficult for other schools to move to alternative offers;
- Positions may go unfilled because the process runs very late at some schools; by the time a candidate turns down an offer, the remaining pool may be committed; and
- Some candidates may accumulate a significant number of offers before deciding, thus delaying the opportunity for schools to move to alternative offers.

The timing issue impacts both departments and candidates. From a department's perspective, the delay in informing candidates of offers or declinations can mean that by the time a candidate finally turns down an offer, it may be too late for the department to go to the next person on its list. As a result, the position remains unfilled or, in some cases, the slot expires due to school regulations.

From a candidate's perspective, a more timely decision process may

mean earlier decisions by other candidates, thus freeing up slots elsewhere in the chain. Anecdotal stories suggest that under the current system a candidate will occasionally be "number two" on the list of many departments, yet end up with no offers because "number one" delayed making a decision while waiting to hear from a particular school. It is hoped that a more uniform process will benefit both departments and candidates.

CRA recognizes that schools operate under different constraints, and no single set of guidelines will work for all schools. Moreover, CRA has no desire to "legislate" changes because it recognizes the need for each school to act in its best interests. Through discussions with selected departments, however, there appears to be general agreement on a set of principles for revamping the recruiting process, which will improve the climate for all schools and candidates as well. These general principles include:

1. Beginning the search process earlier in the academic year can help ease backlog at the end of the year. As a consequence, it is suggested that a date of November 15 be used as an initial application deadline.
  - We understand that some schools cannot commit to a specific date because local regulations bar them from considering any applications submitted after that date. We do not expect schools operating

under such constraints to use a formal deadline, but hope they will adjust their schedules to encourage submissions prior to November 15.

- We understand that some schools may not know whether they have been allocated slots by their administration in sufficient time to advertise positions subject to this date, due to constraints from state legislatures or other governing bodies. We would hope that such schools would still commit to the principle of accelerating the review process as much as possible, relative to those constraints.
- We understand that schools do not want to enforce a hard deadline, especially one this early in the academic year, as some candidates may still be deciding on their timetables and career paths. Nonetheless, we believe that by making the target date earlier in the academic year, the triage of applications can occur earlier in the season and ease the pressure during the final stages of searching.
- 2. The principle of speeding up the end process is generally agreed upon. But setting specific dates by which all interviews have taken place and all offers have been issued is not something on which all schools can agree. However, there are several principles that are

generally accepted that will improve the recruiting process. Specifically:

- Schools would commit to issuing declinations as early as possible. This has two forms. First, candidates who are not going to be invited for an interview would be informed as soon as decisions on interviews have been made. We understand that schools may wish to keep in reserve a pool of candidates for a possible interview in a second round, but candidates who are in neither the initial interview pool nor the reserve pool would be informed of the school's decision. Second, where possible, rather than waiting until all interviews have taken place, schools would commit to informing interviewees as soon as possible that an offer will not be forthcoming. Again, we expect that schools may wish to keep a reserve pool of candidates while they wait to hear back on offers made or until they are able to make final decisions. But in cases where the school clearly feels that a candidate will not be receiving an offer, they will inform that candidate as soon as possible.
- 3. Although no specific date is acceptable to all schools, schools would support the principle of completing all interviews and extending offers before May 1 of each year.

Faculty Recruitment Timelines  
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## CISE Bytes

*We are pleased to introduce CISE Bytes, the first in a series of columns from Jeannette Wing, Assistant Director of NSF for CISE. They will provide brief items of interest about the people in CISE and activities within the directorate.*

### Personnel Updates

I am pleased to announce that Sampath Kannan, University of Pennsylvania, started July 1 as the new Director for the Computing and Communications Foundations Division. Also joining CISE in the past year are the following program directors: Mitra Basu (US Naval Academy), Michael Branicky (Case Western), Chita Das (Penn State), Krishna Kant (Intel), David McDonald (UW), Paul Oh (Drexel), Joan Peckham (URI), and Lenore Zuck (UI/Chicago).

Joining the CISE Advisory Committee in the past year are Anant Agarwal (MIT), Michelle Effros (Cal Tech), Carla Ellis (Duke), Eric Horvitz (Microsoft Research), Jon Kleinberg (Cornell), Andrea Lawrence (Spelman), Jeffrey MacKie-Mason (Michigan), Maja Matarić (USC), Greg Morrisett (Harvard), Don Norman (Northwestern), and Vijay Raghavan (Louisiana).

Many thanks go to the program directors who rotated out of CISE this past year: David Du, Le Gruenwald, George Lee, Wayne Lutters, Allison Mankin, Sirin Tekinay, and Joseph Urban; and to the advisory committee members who rotated off in the past year: Al Aho, Andrea Arpaci-Dusseau, Brian Blake, David Clark, Bill Dally, David Farber, Stephanie Forrest, Yolanda Gil, John King, Antonio Lopez, Rico Malvar, Robin Murphy, Roz Picard, and Dave Tennenhouse.

Finally, I wish to express a special huge thanks to Michael Foster, who retired this summer after 16 years of service to NSF. He was a beloved manager of CCF staff and a source of stability and wisdom for CISE. He will be sorely missed!

### Two Clusters Are Better Than One

Many of you are aware of the Google and IBM partnership with CISE, but may have missed the announcement about our second partnership with HP, Intel, Yahoo! and UIUC. CISE now has made available to the entire academic community two clusters: Google and IBM provide a software service layer for one; HP, Intel, Yahoo! and UIUC provide access to the bare machine as well as to the software and services for another. This second cluster represents yet another model of an academia-industry-government partnership that is a win-win-win for all.

Both clusters are resources available to awardees funded through the FY08 Cluster Exploratory (CluE) program, which has seeded our FY09 Data-Intensive Computing program. The new FY09 program is more broadly focused on data-intensive computing, not just cluster-based computing.

CISE welcomes other novel ways of engagement with the private sector that will benefit the academic community. ■

### REMINDER TO DEPARTMENT CHAIRS (Ph.D-Granting Institutions)

**Taulbee Surveys  
Were Due  
November 10**

Please make certain  
your survey has been  
submitted to:  
[http://www.cra.org/  
taulbee](http://www.cra.org/taulbee)

**Questions?**

Contact:  
[survey@cra.org](mailto:survey@cra.org)

## CCC Update

The Computing Community Consortium (<http://www.cra.org/ccc/>) was established by the National Science Foundation (NSF) to enable the computing research community to build research communities focused on exciting new visions for computing research.

One piece of this effort is the funding of area-specific workshops in which researchers and potential funders come together to discuss research visions, lay out research road maps, and increase momentum for the area. Here we provide a brief synopsis of the ongoing efforts.

*Got a vision that you wish to develop? See <http://www.cra.org/ccc/vision.php> for how CCC can support you!*

### Big-Data Computing Study Group

<http://www.cra.org/ccc/bigdata.php>

Randal E. Bryant, Carnegie Mellon University

Thomas T. Kwan, Yahoo! Research

Having the ability to quickly and conveniently perform computations over terabyte- and petabyte-scale data sets would enable significant breakthroughs in science, commerce, and other applications important to society. The Big-Data Computing Study Group will explore and enable opportunities for research and applications of high-performance, data-intensive computing systems, benefiting application areas ranging from astronomy to machine translation.

Initial workshops were held in March 2008.

See also the new NSF CISE initiative in Data-Intensive Computing.

### Cyber-Physical Systems

<http://www.cra.org/ccc/cps.php>

Jack Stankovic, University of Virginia  
Bruce Krogh, Carnegie Mellon University

Embedding networked computing adds new capabilities to physical systems. These cyber-physical systems range from miniscule (pacemakers) to large-scale (the national power grid). This is not about adding computing and communication equipment to conventional products where both sides maintain separate identities. This is about merging computing and networking with physical systems to create new revolutionary science, technical capabilities, and products.

An initial workshop was held in April 2008.

See also the new NSF CISE solicitation: Cyber-Physical Systems (CPS) NSF 08-611

### From Internet to Robotics: The Next Transformative Technology

<http://www.cra.org/ccc/robotics.php>

Henrik Christensen, Georgia Tech

The fact that the Internet has in many ways transformed our daily lives is a given. Yet the Internet remains a medium for interconnecting passive devices with limited facilities for interaction with the physical world. Robots, on the other hand, are devices designed to interact intelligently with the environment. Over the next decade or two, our prediction is that robotics will impact our daily lives in ways that at least equal the impact of the Internet. Our study will generate a road map of applications for robotics across users, producers and researchers. The objective is to provide a comprehensive view of the use of robotics and the main obstacles

to deployment, and to identify the key competencies to facilitate the transformation. Both market drivers and technology push will be considered mechanisms for designing new systems.

Initial workshops were held in June and August 2008.

### Visions for Theoretical Computer Science

<http://www.cra.org/ccc/theory.php>

Richard Ladner, University of Washington-Seattle

Theoretical Computer Science aims to understand the intrinsic capabilities and limitations of efficient computation. The goals of the visioning workshop were to identify broad research themes within theoretical computer science that have potential for major impact in the future, and to distill these research directions into compelling “nuggets” that can quickly convey their importance to a layperson. The nuggets produced in the workshop will serve to highlight the importance of sustained support for long-term, fundamental computing research, and inspire the community in its future efforts.

The workshop was held in May 2008, with work continuing via wiki.

### Network Science and Engineering

<http://www.cra.org/ccc/netse.php>

Ellen Zegura, Georgia Tech

Researchers with expertise in computing, engineering, networking, and the social, behavioral and economic sciences are coming together in the development of a research agenda in Network Science and Engineering (NetSE), with the ultimate goal of developing a

comprehensive scientific understanding of the interconnected technical and social dimensions of complex digital communication networks. The NetSE research agenda will reveal the fascinating scientific landscape of network science and engineering, and will build support for increased and more effective investments in this multidisciplinary field.

Six workshops were held from June through September 2008.

### Global Resources for Online Education (GROE)

(New Initiative – Monitor [www.cra.org/ccc/](http://www.cra.org/ccc/) for details)

Beverly Woolf, University of Massachusetts-Amherst

Computing research has the potential to transform learning at all levels. Breakthroughs in dynamic student learning assessment, personalized feedback for learners at far lower cost than current methods, and improved prospects for sustainable lifelong learning are but a few of the possible benefits. This project includes workshops of leading experts in: 1) enhancement of cognitive learning through improved understanding of human cognition and applications to education; 2) improved human-computer interaction to enhance individual productivity in learning; 3) creation of new learning communities using social networking systems, collaboration, and mobile/ubiquitous computing; 4) new approaches to delivering learning assistance and assessing outcomes; and 5) promising technologies for accelerating individual and group learning.

Workshops have not yet been scheduled for the GROE initiative.

For up-to-date information on CCC activities, visit the website at: <http://www.cra.org/ccc/>

#### Internships from Page 2

provide research internships in East Asia and the Pacific with an application deadline in early December ([www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5284](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284)).

CRA-W and the Coalition to Diversify Computing (CDC) provide research internships as part of their programs for women and minority undergraduates ([www.cra.org/Activities/craw/UgradResearch](http://www.cra.org/Activities/craw/UgradResearch)). Many undergraduate research internships at universities are funded by the NSF Research Experience for Undergraduates (REU) program. NSF provides a list of participants in this program ([www.nsf.gov/crssprgm/reu](http://www.nsf.gov/crssprgm/reu)), and students can investigate opportunities with individuals on the list.

### Techniques for a Successful Internship

Internships last a very short time, approximately 10 to 12 weeks, so planning and initiative by students can help ensure success. When students accept an internship, they may wish to ask if there is any background reading

or skills acquisition that would help them prepare for it. Once the internship begins, structuring the work in phases with intermediate checkpoints can be beneficial. The last phase of the plan is a week for preparing and giving a final talk, or producing a final report. Each intermediate phase has a deliverable, such as a survey of the area, a design, an analysis, or a software program. If the schedule slips, the deliverable for the intermediate checkpoint may be the final result for the internship, but the intermediate deliverable guarantees that there will be a result to show! If an intermediate checkpoint is missed, the student and mentor may want to re-plan the project to account for the tighter time constraints remaining.

An internship is more than a summer project with a deliverable. It is an opportunity to make enduring professional contacts. Students can easily build contacts, in addition to their mentors, by scheduling an hour each week to speak with a professional in the student's areas of interest. Some

students find it helpful to prepare a list of questions in advance to initiate these conversations. Students should also be prepared to talk about their projects. Students can prepare an elevator story that describes, in the time of an elevator ride (approximately three sentences): the problem the student is solving, why the problem is important, and how the student's solution is differentiated from the rest of the pack. Delivering such a story with enthusiasm can lead to many great conversations, and perhaps enduring professional relationships.

After the internship is completed, students will benefit greatly from continuing relationships with their mentors and contacts made during the internship. These contacts are possible future collaborators, committee members, and recommendation writers. They can be great additional advisors on how to advance in the field. Students can help maintain these relationships by sending greetings and periodic updates, including research papers, through email, and

spending time at conferences with their contacts.

Through internships, students can gain educational, professional, work, and research experiences, and build professional networks that will serve them well in their future careers.

**Joann J. Ordille** is a consulting research scientist in the Software Technology Research Department at Avaya Labs Research, and a member of CRA-W. ■

### CRA-W Anita Borg Early Career Award

Nomination Deadline

**February 15, 2009**

Details: [craw\\_awards@cra.org](mailto:craw_awards@cra.org)

Funding Stopgap from Page 1

significantly by the outcome of the Congressional election.

Sen. Barack Obama (D-IL) has indicated that, should he win, he intends to follow the funding recommendations contained in COMPETES. If the current Democratic majority in Congress holds or is increased, his ability to follow through on that commitment will be greatly enhanced. If, however, the Democratic majority shrinks, or if they lose control of one or both chambers, the calculus changes dramatically and science funding may once again find itself competing with more partisan priorities. (In a closely divided Congress that is not the party of the Administration, the fact that science funding is a priority for both parties can actually be a disadvantage, as neither party really gets to claim credit for any progress.)

Sen. John McCain (D-AZ) has also indicated his support of the funding levels recommended in the COMPETES Act. However, he would hold off on starting the doubling process until his Administration enacts a one-year discretionary spending “freeze” for all federal agencies. According to Ike Brannon, an economic and senior policy advisor to McCain, the purpose of the freeze would be to give the new Administration an opportunity to review every federal program to “find the ones that work and eliminate the ones that don’t.” This freeze would also apply to federal science agencies, ensuring that they would suffer that fourth year of reduced funding.

There is one bright spot in the federal R&D portfolio in FY 2009, however. As part of the CR, Congress did enact new spending for operations of

the Department of Defense. Included in that new spending was an increase of \$270 million to the DOD basic research (or 6.1) accounts, an increase of 12.7 percent over FY 2008. The increase comes after Secretary of Defense Robert Gates used some of his own political capital to place a priority on butressing DOD’s basic and university research efforts in the DOD budget. As this article goes to press, we still do not have the full details of the increase, but for the latest analysis on the DOD numbers—and, indeed, all the federal science agencies—check the Computing Research Policy Blog at <http://cra.org/blog>. ■

A7: Affordable Access from Page 3

**Network Science and Engineering:** “Computers” of tomorrow will be networks of people and computers working together to solve problems neither can solve alone. Better understanding of complex interactions and dependencies among these computing and communication networks, from the substrate layer through the people layer, will let us design and build tomorrow’s infrastructure—the connective tissue of A7.

Finally, software is computing’s secret weapon. It is software that will make A7 a pleasurable reality, not a nightmare. It is software that will make our cyber-systems more intelligent, more flexible and adaptable, more customizable for individual people and whole populations. CISE encourages the entire PI community “to rethink software”<sup>3</sup>: we need new ways of developing software commensurate with

our rapidly advancing technologies and the increasing diversity of our users.

**Endnotes:**

- <sup>1</sup> James Fallows, “How the West Was Wired,” *The Atlantic*, October 2008, pp. 56-65.
- <sup>2</sup> The entire seven-page written testimony by Don Winter, VP of Engineering and Information Technology of Boeing Phantom Works, presented to the Committee on Science and Technology on July 31, 2008, was devoted to CPS, arguing their life-critical role not just in aerospace, but other sectors, e.g., automotive, military, and energy.
- <sup>3</sup> Wing, Hirsh, Kannan, and Znati, “Rethinking Software,” CISE Dear Colleague Letter, September 10, 2008. ■

Faculty Recruitment Timelines from Page 4

As noted, these are principles or guidelines which, if generally followed, can ease the recruiting process for all schools. Support of these guidelines does not in any way bind a school to meeting specific deadlines.

The following schools have discussed these suggestions and support them in principle, subject to local needs and variations:

- Carnegie Mellon University
- Cornell University
- Georgia Tech
- Massachusetts Institute of Technology
- Princeton University
- University of California, Berkeley
- University of Illinois at Urbana-Champaign
- University of Texas, Austin
- University of Washington

All nine schools will try to move the process forward as far as possible during the current academic year (2008-09), and are committed to following these guidelines in 2009-10 (noting that individual circumstances may preclude hard deadlines).

**Eric Grimson** is a Professor of Computer Science and Engineering at the Massachusetts Institute of Technology and a member of the CRA Board of Directors. Other board members who participated in preparing this proposal include: Annie Anton (North Carolina State University), J Strother Moore (University of Texas at Austin) David Notkin (University of Washington), Jennifer Rexford (Princeton University), Marc Snir (University of Illinois, Urbana-Champaign), and Laura Haas (IBM Almaden Research Center). ■

Attendees Enjoy Hopper Conference



The Aggie Women in Computer Science (TAMU) are pictured at the recent Grace Hopper Conference: From the left: Lydia Tapia, Sarah Gray, Carla Romero (CRA staff), Olga Pearce, and Shawna Thomas.

CRA-W Co-Chairs: Passing the Gavel



New co-chairs Carla Brodley, Tufts University, and Kathleen Fisher, AT&T Labs Research (far right and far left, respectively) took over the reins from past co-chairs Lori Clarke, University of Massachusetts at Amherst (middle left) and Lori Pollock, University of Delaware (middle right). The transition took place at CRA-W’s Steering Committee meeting in San Francisco in October.

**CRA-W Grad Cohort for Women Conference**

March 27-28, 2009, San Jose, CA

Application Deadline:

**December 15, 2008**

<http://www.cra.org/Activities/craw/gradcohort/index.php>

## Professional Opportunities

### CRN Advertising Policy

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

#### Auburn University

Department of Computer Science and Software Engineering  
*Assistant/Associate/Full Professor*

The Department of Computer Science and Software Engineering (CSSE) invites applications for multiple tenure-track faculty positions at the Assistant/Associate/Full Professor level to begin Spring or Fall 2009. We encourage candidates from all areas of computer science and software engineering to apply. We are especially interested in candidates specializing in the fields of artificial intelligence or software engineering. Candidates selected for these positions 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; excellent communication skills required.

Applicants should submit a current curriculum vitae, research vision, teaching philosophy, and the names and addresses of three references to Dr. Kai H. Chang, Chair, [kchang@eng.auburn.edu](mailto:kchang@eng.auburn.edu) (with copy to [mccorba@auburn.edu](mailto:mccorba@auburn.edu)).

The applicant review process will begin early 2009. 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.

#### Bell Labs, Alcatel-Lucent Statistics and Learning

##### Research Position

We invite applications for a research position in machine learning, pattern recognition, and data mining.

Applicants should have a Ph.D. in Computer Science, Statistics, or Applied Mathematics, and be able to perform original, pioneering research, with promises for strong, practical impact. Preference will be given to those with practical experiences in working with complex data from real-world applications. Candidates must demonstrate potential for research excellence, a collaborative spirit, broad technical interests, and good communication skills.

Interested please forward a CV, a Statement of Interests, and contact info of 3 referees to Dr. Tin Kam Ho ([tkh@research.bell-labs.com](mailto:tkh@research.bell-labs.com)).

Evaluation continues until the position is filled. Alcatel-Lucent is an Equal Opportunity Employer.

#### Bentley College

Human Factors and User Experience  
*Tenure-Track Faculty Member*

Bentley seeks a tenure-track faculty member starting in August of 2009 to teach and conduct research in our rapidly expanding graduate program in human factors and user experience. We seek candidates with the experience and motivation to explore the intersection of human factors, the user experience, and business strategy. Like all faculty in the department, the successful applicant will teach undergraduate courses as needed. Applicants must have a PhD in human factors, cognitive science, human computer interaction, or related area. Of paramount importance is demonstrated research achievement and scholarly publication in human factors, usability engineering or HCI.

Applicants must be willing and able to establish externally funded research activities to complement the interdisciplinary work currently underway in our nationally recognized Design and Usability Center. Also expected is demonstrated excellence in graduate

teaching in one or more of the following areas: human factors, usability engineering or human computer interaction. Industry experience is highly desirable. Our program values interdisciplinary work across the college and close collaboration with the external development community.

Applicants should send an application letter, curriculum vitae, a 1-2 page research statement, and a 1-2 page teaching statement to:

Human Factors and HCI Search Committee  
Dr William Gribbons, Chair of the Search Committee  
Smith 125  
Bentley College  
175 Forest Street  
Waltham, MA 02452

Electronic submissions are welcomed and should be sent to:  
[wgribbons@bentley.edu](mailto:wgribbons@bentley.edu)

#### 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, 2009. A Ph.D. in Computer Science or a Ph.D. in the mathematical sciences is required. Preference will be given to those with a willingness to teach at least some courses in both disciplines. 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 are expected to interact with students on a one-on-one basis and in such activities as summer faculty/student research, independent studies, or senior capstone projects. The Department is supportive of all forms of scholarship.

Berea College students often are the first in their families to attend college, and they excel in Berea's rigorous, nationally-recognized academic environment. Berea College ranks among the leading colleges in the South in graduating students who go on to earn the Ph.D. and our graduates distinguish themselves in many fields, including social service, government, the arts, business, education, medicine, and science.

The town of Berea, forty miles south of Lexington and two hours from Cincinnati, is located on the edge of rolling bluegrass country and the western foothills of the Appalachian Mountains. About 1,500 college students, almost all residential and full-time, are enrolled in B.A. and B.S. programs in 22 academic departments. The Mathematics and Computer Science Department consists of eight full-time faculty members and some additional part-time instructors. More information about Berea College and the Department of Mathematics and Computer Science is available at <http://www.berea.edu>

Applicants should send a cover letter, resume, transcripts of graduate and undergraduate work, a statement of personal teaching philosophy, and three letters of recommendation to:

Professor James Blackburn-Lynch  
Chair, Mathematics and Computer Science Department  
CPO 2146  
Berea College  
Berea, KY 40404

Applications will be accepted until search is concluded but full consideration

is guaranteed for those received by November 1<sup>st</sup>. Minority candidates are 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.

#### Boeing, Bellevue, WA

##### Advanced Technologist Position

Seeking an innovative researcher with extensive experience in machine learning with a strong background in statistics, probability, and mathematics and with strong programming skills. Will take a leadership role in the appropriate application of machine learning technologies to Boeing products and processes, participate in and lead multiple technical projects, work with colleagues of diverse technical backgrounds, develop proposals for new business, interface with internal and external customers, develop new intellectual property, and build and maintain a network of contacts and collaborators both inside and outside the company.

To view a detailed job description and apply online, please visit: [boeing.com/employment](http://boeing.com/employment), click "Job Search" and enter Requisition# "08-1018729" in the "Job Requisition #" field.

Boeing is an equal opportunity employer supporting diversity in the workplace.

#### Boston College

Department of Biology, Computational Genetics Laboratory

<http://bioinformatics.bc.edu/marthlab>

##### Postdoc Positions

Available in Next-Generation Sequencing, Computer Software Development, and Data Analysis.

The Marth laboratory at the Boston College Biology Department develops DNA sequence analysis software (base callers, read mapping/alignment programs, SNP discovery programs, structural variation detection software, and assembly viewers) for data from high throughput, next-generation sequencing machines. We also participate in large collaborate data analysis projects with genome centers e.g. as part of the 1000 Genomes Project.

We are currently recruiting several postdoctoral fellows with expertise in bioinformatics and / or computing. Postdocs in the laboratory are expected to lead the development of high-performance sequence data analysis software. A doctorate in science or engineering (e.g. biology, genetics, bioinformatics, physics, mathematics, computer science, or electrical engineering) is required. Candidates with demonstrated bioinformatics software development expertise (especially C/C++) are preferred. We will also consider computational scientists from engineering and physics who wish to transition into bioinformatics. We offer competitive salaries for qualified applicants.

Applicants should submit their curriculum vitae, a description of research interests, and contact information for three referees. Positions are available immediately. Applications will be accepted until the positions are filled. Materials should be sent to Ms. Diane Butera at [buterada@bc.edu](mailto:buterada@bc.edu).

#### Boston University

Department of Computer Science  
*Assistant Professor*

Applications are invited for two tenure-track assistant professorships beginning September 2009. Qualifications required of all applicants include a Ph.D. in Computer Science or related discipline, a strong

research record, and a commitment to teaching. All research areas of Computer Science will be considered. Particular attention will be given to candidates pursuing research in Computing Systems, Trustworthy Computing, and/or Informatics (e.g., databases, data mining, machine learning).

Currently, the Department comprises 17 faculty members, and offers programs leading to B.A., M.A., and Ph.D. degrees. In recent years the Department has expanded in research strength with current research interests including databases, fault-tolerant computing, image and video computing, network protocols and services, operating systems, performance evaluation, programming languages, real-time systems, security, and theory of computation and algorithms. In addition, the Department maintains a close association with other university groups working in various applied computing areas including scientific computing, computer engineering, and bioinformatics.

The Department maintains a state-of-the-art computing environment and has full access to the university's supercomputing facilities, high-speed campus networks, and Internet2. Recently, the Department has received significant government and industry grants for research, research infrastructure, and for graduate student support. We anticipate that this period of growth will continue based on our recent successes and the continued strong support of the University.

Additional information on the Department is available from:  
<http://www.cs.bu.edu>

Qualified applicants should apply by filling out the application form available at <http://www2.cs.bu.edu/faculty-app/>, or by sending their resume, a cover letter stating one's areas of specialization, and at least three letters of recommendation to:

Faculty Search Committee  
Computer Science Department  
111 Cummington Street  
Boston University  
Boston, MA 02215

Boston University is an Equal Opportunity/Affirmative Action employer.

#### Bucknell University

Department of Computer Science  
*Assistant Professor*

Applications are invited for a tenure track entry-level (three or fewer years of full-time teaching experience) assistant professor position in computer science beginning mid-August 2009. Candidates must have completed their Ph.D. requirements in computer science or a closely related field by August 15th, 2009. A strong commitment to excellence in teaching and scholarship is required. The successful candidate must be able to participate in the teaching of required core courses and be able to develop elective courses in the candidate's area of expertise that enhance the department's course offerings.

Bucknell is a highly selective private university emphasizing quality undergraduate education in engineering and in liberal arts and sciences. The B.S. programs in computer science are ABET and CAC accredited. The computing environment is Linux/Unix-based. More information about the department can be found at:

<http://www.bucknell.edu/ComputerScience/>

Applications will be considered as received and recruiting will continue until the position is filled. Candidates are asked to submit a cover letter, CV, graduate transcript, a statement of teaching philosophy and research interests, and the contact information for three references. Please submit your application to <http://jobs.bucknell.edu/> by searching for the "Computer Science Faculty Position".

Please direct any questions to Professor Xiannong Meng of the Computer Science Department at [xmeng@bucknell.edu](mailto:xmeng@bucknell.edu).

(continued)

## Professional Opportunities

Bucknell University values a diverse college community and is committed to excellence through diversity in its faculty, staff and students. An Equal Opportunity/Affirmative Action Employer, Bucknell University especially welcomes applications from women and minority candidates.

### Caltech

#### Center for the Mathematics of Information Postdoctoral Fellowship Program

Caltech's Center for the Mathematics of Information (CMI) announces openings in the CMI Postdoctoral Fellowship Program, starting in fall 2009. The CMI is dedicated to fundamental mathematical research with an eye to the roles of information and computation throughout science and engineering. Areas of interest include algorithms, complexity, applied combinatorics, applied probability, statistics, information and coding theory, geometry processing, multiresolution methods, control and optimization.

Please apply and have three reference letters sent directly as instructed at:

<http://www.ist.caltech.edu/joinus/positions.html>

All candidate materials are due by Friday, December 12, 2008 and reference letters are due by Monday, December 15, 2008.

Positions are contingent upon completion of the PhD. Caltech is an affirmative action/equal opportunity employer; women, minorities, veterans, and disabled persons are encouraged to apply.

### Carnegie Mellon University

#### School of Computer Science

##### Faculty Positions

The School of Computer Science seeks faculty candidates with a strong interest in research, outstanding academic credentials, and an earned Ph.D. Candidates for tenure-track appointments should also have a strong interest in graduate and undergraduate education.

The School of Computer Science at Carnegie Mellon University spans a wide range of topics in computer science and the application of computers to real-world systems. It houses the Computer Science Department; Human Computer Interaction Institute; Institute for Software Research; Language Technologies Institute; Machine Learning Department and the Robotics Institute.

Applications should include curriculum vitae, statement of research and teaching interests, copies of 1-3 representative papers, and the names and email addresses of three or more individuals who have been asked to provide letters of reference. Applicants should arrange for reference letters to be sent directly to the Faculty Search Committee (see website for instructions), to arrive before January 15th, 2009. Letters will not be requested directly by the Search Committee. Applications should indicate citizenship and, for non-US citizens, current visa status.

Please refer to the Hiring Website <http://www.cs.cmu.edu/~scsdean> for details and submission guidelines. Applications will be accepted from November 1st, 2008 through January 1st, 2009. Please contact the Search Committee at [faculty-search@cs.cmu.edu](mailto:faculty-search@cs.cmu.edu) with questions.

Carnegie Mellon is an affirmative action/equal opportunity employer; we invite and encourage applications from women and minorities.

### Carnegie Mellon University

#### Institute for Software Research, Master of Software Engineering Programs

##### Teaching Track Position

The Professional Masters Programs in Software Engineering ([www.mse.cs.cmu.edu](http://www.mse.cs.cmu.edu)) in the School of Computer Science at Carnegie Mellon University invites applications for a teaching-track position beginning in the fall term of 2009, or earlier. This is a career-oriented, renewable appointment for teaching courses in

software engineering at the professional master's level.

Applicants for the position must have an M.S. or Ph.D., preferably in computer science, software engineering, or a related field, demonstrated excellence in teaching software engineering courses, and several years of professional experience in software engineering. Teaching-track appointments are typically at the rank of Assistant Teaching Professor, with the possibility of promotion to the ranks of Associate Teaching Professor and Full Teaching Professor. Teaching-track ranks are not tenured.

Preferred qualifications include broad industry experience, teaching experience, and familiarity with current software engineering technology and methods. We are particularly interested in candidates with experience in the areas of distributed systems, embedded systems, and systems engineering. Ideally the candidate should also have familiarity with a number of roles in the software engineering field, such as team lead, developer, manager, tester, and quality assurance manager.

Applications should include a letter of application, curriculum vitae, a statement of teaching philosophy, and letters of

**Keeping Up on the News?  
Check out these CRA Sites**

**CRA Bulletin:** [www.cra.org/bulletin](http://www.cra.org/bulletin). Subscribe to its RSS feed or sign up for a digest version sent out by e-mail.

**CRA Policy Blog:** <http://cra.org/blog>. All the latest in computing research policy news.

**CRA Announcements:** Receive e-mail messages about CRA projects and events on a regular basis. To subscribe, see details at <http://www.cra.org>.

**Computing Community Consortium (CCC)**, visit its website at: <http://www.cra.org/ccc/>.

reference from three or more individuals. Applicants should arrange for reference letters to be sent directly to the contact below.

Email: Jane Dixon Miller <[mil3@cs.cmu.edu](mailto:mil3@cs.cmu.edu)>

Paper: Master of Software Engineering Programs

Faculty Search Committee

Institute for Software Research

Carnegie Mellon University

300 S. Craig Street, Room 273  
Pittsburgh, PA 15213-3707

### Colorado State University

Department of Computer Science  
Tenure-Track Faculty in Systems/Software/  
High-Performance Computing

The Department of Computer Science at Colorado State University solicits applications for a tenure-track faculty position preferably at the level of



UNIVERSITY OF  
NOTRE DAME

### The Duda Family Chair in Engineering

#### Department of Computer Science and Engineering

The Department of Computer Science and Engineering at the University of Notre Dame seeks to fill the newly-established Duda Family Chair in Engineering. The inaugural chair holder will have a distinguished record of achievement at the full professor level, and will be expected to work with the other chaired professors and faculty in the Department to further extend the Department's strong research programs, including cross-departmental and cross-college multi-disciplinary activities.

The Department offers a PhD degree as well as accredited undergraduate programs in Computer Science and Computer Engineering. There are approximately seventy-five students in the PhD program and over one hundred majors in the undergraduate programs. Currently there are seventeen tenure-track and six non-tenure track faculty. Active areas of research include algorithms, bioinformatics and computational biology, computer architecture and nanotechnology, data mining / machine learning, computer vision / image analysis, and networks / systems. The Gates Foundation recently awarded a \$20 million grant to Biology and CSE faculty in the bioinformatics area, and the Semiconductor Research Corporation (SRC) together with the state of Indiana and the city of South Bend recently announced that the Midwest Institute for Nanoelectronics Discovery, a nanoelectronics research consortium led by Notre Dame, has received \$25 million in new funding.

The University of Notre Dame is a private, Catholic university with a doctoral research university (extensive) Carnegie classification. Notre Dame has an enrollment of over 11,000 students, and it is consistently ranked in USN&WR as a top-twenty national research university. Notre Dame is located in South Bend, Indiana. South Bend is part of a metropolitan area of more than 300,000 residents. It has a vibrant and diverse economy with affordable housing and excellent school systems. Recreational opportunities in the South Bend area include professional and collegiate sports, a thriving arts culture, close proximity to Lake Michigan and Chicago, and a variety of outdoor activities.

Preferred areas of expertise for the inaugural holder of the Duda Chair are data mining / machine learning or systems / networks; however, outstanding applicants and nominees in all areas will be considered. Screening of applications will begin immediately. Applicants should send a statement of interest, CV, and list of references in PDF format to [DudaChairSearch@cse.nd.edu](mailto:DudaChairSearch@cse.nd.edu).

*The University of Notre Dame is an Equal Opportunity, Affirmative Action Employer.*

## Professional Opportunities

assistant professor, beginning Fall 2009. Applicants must have a Ph.D. in computer science or a related field, and demonstrate potential for excellence in research and teaching in the area of Systems Software/High Performance Computing, which includes distributed systems, virtualization, concurrent systems, storage systems, and the hardware/software interface with an emphasis on software.

The department has over 325 undergraduate majors and 165 graduate students in Master's and Ph.D. programs. The department has 19 tenure-track faculty with strong research programs in artificial intelligence, computer vision, distributed computation, embedded systems, networks, security, and software engineering.

Colorado State University is located in Fort Collins, at the base of the Rocky Mountains. Fort Collins was ranked first in "Best Places to Live" in the western U.S. among small cities by Money Magazine. More information can be obtained at:

<http://www.cs.colostate.edu>

Applications must be received by January 7, 2009 at <http://www.natsci.colostate.edu/searches/compsci/> to ensure full consideration.

The anticipated start date is August 16, 2009.

Complete applications of semi-finalists will be reviewed by all faculty in the Department

CSU is an EO/AA employer.

### Columbia University

Center for Computational Biology & Bioinformatics and Dept of EE  
*Research Scientist/Postdoctoral Positions*

Two research scientist/postdoctoral positions are available for research in the area of computational biology/genetics.

Candidates should have a Ph.D. in a field related to computer science, statistics, or genetics. Experience in parallel cluster computing is required. Both senior and junior appointments will be considered.

Please send curriculum vitae, brief description of research interests, and a list of three references to:

Prof. Dimitris Anastassiou  
Department of Electrical Engineering  
Columbia University  
500 West 120th Street  
New York, NY 10027  
E-mail: [anastas@ee.columbia.edu](mailto:anastas@ee.columbia.edu)

Columbia University is an Affirmative Action/Equal Opportunity Employer.

### Cornell University

School of Electrical and Computer Engineering

*Tenure-Track Faculty Positions*

The School of Electrical and Computer Engineering at Cornell University, Ithaca, New York invites applications for tenure-track faculty positions in all areas of electrical and computer engineering.

High priority is given to overall originality and promise of the candidate's work, with secondary priority given to the specific area of specialization. Applicants must hold a doctorate in an appropriate field, must have demonstrated an ability to conduct outstanding research, and show promise for excellent teaching. We anticipate hiring at the Assistant Professor level, but applications at other levels will be considered; salary and rank are commensurate with qualifications and experience.

Applicants should submit a curriculum vitae, a research statement, a teaching statement, three recent publications, and complete contact information for at least three references. Personal statements summarizing teaching experience and interests, leadership efforts and contributions to diversity are encouraged.

Applications must be made on-line using the School's system at: <http://fast.ece.cornell.edu>. Applications received by January 9, 2009 will receive full consideration.

The School of Electrical and Computer Engineering, and the College of

Engineering at Cornell embrace diversity and seek candidates who will create a climate that attracts students of all races, nationalities and genders. We strongly encourage women and underrepresented minorities to apply.

Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches.

Cornell University is an affirmative action, equal opportunity educator and employer.

### Deutsche Telekom Inc., R&D Lab USA, Los Altos, CA

Services and Mobile Platforms Group  
*Senior Research Scientist*

Deutsche Telekom, one of the world's leading telecommunications and information technology service providers, is looking for a highly qualified researcher in the area of Services and Mobile Platforms for its corporate research and development center located in the Silicon Valley, California, USA area. The scope of the work will encompass the development of open and programmable mobile platforms and novel information technology services to shape the emerging trends in fixed and mobile infrastructure and services sectors. Having a close collaboration with top-notch institutions, the R&D center offers an unprecedented combination of industrial and academic research with opportunities to have a direct impact on company's products and services.

We are looking for a self-driven and motivated individual who is passionate about conducting leading-edge research. Applicants should have recently completed a doctoral degree in computer science, electrical engineering, or other related disciplines and ideally has expertise in mobile operating systems, computer networking, web technologies, and cellular systems and architectures. Experience in industrial R&D will be valued.

Application materials should include, in a single pdf file in this order, (a) cover letter, (b) one-page statement of research objectives, (c) curriculum vitae, (d) list of publications, (e) three most important publications, and (f) contact information of at least three individuals who may serve as references. Short-listed candidates will be invited to give a talk and have interviews with members of the recruiting committee.

Applications should be submitted via email to:

Dr. Jatinder Pal Singh  
Deutsche Telekom Inc., R&D Lab USA  
Email: [laboratories.researchscientist@telekom.de](mailto:laboratories.researchscientist@telekom.de)

Deutsche Telekom is an equal opportunity employer.

### Drexel University College of Information Science & Technology

*Full-time Faculty Positions*

Drexel University's College of Information Science & Technology (IST) invites applications for several tenure-track positions in 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. We are particularly interested in applicants in the following areas:

- Information security
  - Information architecture
  - Human-computer interaction
  - Software engineering
- The successful candidate will have:
- A completed doctorate in a related field
  - Evidence of excellence in teaching and research
  - Interest in working with a highly collaborative, interdisciplinary faculty

Candidates for senior positions should have established research records and success in obtaining external research

funding. Joint appointments with other Drexel academic units are also a possibility.

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. 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 academic 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 multinational 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).

To apply for this position, please apply online at:

[www.drexeljobs.com/applicants/Central?quickFind=72040](http://www.drexeljobs.com/applicants/Central?quickFind=72040)  
or visit [www.drexeljobs.com](http://www.drexeljobs.com) and search for Faculty - Information Systems and Software Engineering. The position number is 2662.

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

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.

### 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 2009. We are interested in strong candidates in all active research areas of computer science, both core and interdisciplinary areas, including algorithms, artificial intelligence, computational biology, computational economics, computer architecture, computer vision, database systems, distributed systems, machine learning, networking, and security.

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](http://www.cs.duke.edu) for information about the department.

Applications should be submitted online at [www.cs.duke.edu/facsearch](http://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 4, 2009.

Durham, Chapel Hill, and the Research Triangle of North Carolina are vibrant, diverse, and thriving communities, frequently ranked among the best places in the country to live and work. 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.

### Emory University Computational and Life Sciences (CLS) *Multiple Faculty Appointments*

Emory University is seeking to make multiple faculty appointments within a Computational and Life Sciences (CLS) initiative (<http://www.cls.emory.edu/>). CLS is part of a University-wide Strategic Plan that has uniquely positioned Emory for significant growth in a number of key areas. CLS encompasses three broad focus areas: Computational Science and Informatics, Synthetic Sciences, and Systems Biology. This interdisciplinary initiative will bridge and build upon Emory's highly regarded strengths in the physical, biological, and health sciences.

Faculty applications at all academic ranks across Computational Science and Informatics, Synthetic Sciences, and Systems Biology are invited from individuals with a PhD in a relevant discipline. Applicants should have a proven record (or promise) of excellence in research and teaching. Ideal candidates will span more than one CLS focus area and have joint appointments across departments/schools. We also invite queries from small teams of collaborating scientists who bring complementary strengths to the CLS initiative. Applications consisting of a CV, research and teaching statements, and three letters of recommendation directly from recommenders should be sent via email to [cls@emory.edu](mailto:cls@emory.edu). Women and underrepresented minorities are especially encouraged to apply. Informal inquiries are also invited by email. Screening starts December 1, 2008 and will continue until all positions are filled. Please note that appointments are subject to final funding approval.

For further details on the CLS initiative please see: <http://www.cls.emory.edu/>

Emory University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and members of minority groups.

### Fairfield University

Department of Mathematics and Computer Science  
*Faculty Position*

The Department of Mathematics and Computer Science at Fairfield University invites applications for one tenure track position in computer science, at the rank of assistant professor, to begin in September 2009. We seek a highly qualified candidate with demonstrated excellence in and enthusiasm for teaching, a desire to contribute to the culture and development of a small program, and evidence of research potential. A doctorate in computer science is required. The teaching load is 3 courses/9 credit hours per semester. The successful candidate will have a strong background in software design/languages and will be expected to teach a wide variety of courses including: Introduction to Computer Science, Data Structures, Software Design, Theory of Programming Languages, and Compiler Design.

Fairfield University, founded by the Jesuits, is a comprehensive university with about 3,200 undergraduates and a strong emphasis on liberal arts education. The department has an active faculty of 14 full-time tenured or tenure track members. We offer a BS in computer science as well as a BS and an MS in mathematics.

Fairfield offers competitive salaries and compensation benefits. The picturesque campus is located on Long Island Sound in southwestern Connecticut, about 50 miles from New York City.

Fairfield is an Affirmative Action/Equal Opportunity Employer. For more information see [http://fairfield.edu/macs\\_index.html](http://fairfield.edu/macs_index.html).

Applicants should send a cover letter, a curriculum vitae, teaching and

(continued)

## Professional Opportunities

research statements, and three letters of recommendation commenting on the applicant's experience and promise as a teacher and scholar, to:

Dr. Matt Coleman  
Chair of the Department of  
Mathematics and Computer Science  
Fairfield University  
1073 N. Benson Rd.  
Fairfield CT 06824-5195

Full consideration will be given to complete applications received by January 9, 2009.

### Florida Institute of Technology Department of Computer Sciences Software Engineering Faculty Search 2009-2010

Florida Institute of Technology invites applications for faculty positions at all levels related to software engineering in the Department of Computer Sciences for the 2009-2010 academic year. Applicants with expertise that would reinforce the Department's reputation in areas such as software testing, maintenance & evolution, and system security are strongly encouraged to apply.

Applicants must have a Ph.D. in Software Engineering, Computer Science or in a closely related field. Junior candidates must show outstanding research and teaching potential. Senior candidates must have an exceptional research and teaching record. Salary is competitive and commensurate with appointment rank and qualifications.

The Department currently has 16 faculty members. New faculty joining in 2009 will be expected to assist in improving undergraduate and graduate education, developing quality research programs, attracting new funding, and strengthening our collaborations with industry, government, and other academic institutions. There are approximately 175 undergraduate students, 125 Master's students, and 25 Ph.D. students in the Computer Sciences programs. The Department is housed in the Olin Engineering Complex, with modern laboratories and multimedia classrooms.

The Department has significant research funding from multiple government agencies and corporations, both locally & nationally. For more information about the Department, please visit [www.cs.fit.edu](http://www.cs.fit.edu). Florida Tech is a selective, research-oriented, private university that attracts high-quality students. The University is located in Melbourne on Florida's Space Coast, one of the nation's most prosperous and growing high-tech areas that offers an exceptional quality of life. The campus occupies 130 tropical acres, including a picturesque 30-acre botanical garden. The campus is 5 minutes from the Indian River estuary, 10 minutes from the Atlantic Ocean, and 50 minutes from both Orlando and the Kennedy Space Center.

Applicants should send a letter of intent, curriculum vitae, research and teaching statements, and full contact information for at least three references, by email to [faculty-search@cs.fit.edu](mailto:faculty-search@cs.fit.edu), or by regular mail to:

Faculty Search Committee  
Department of Computer Sciences  
Florida Institute of Technology  
150 W. University Blvd.  
Melbourne, FL 32901

Review of applications will begin immediately and continue until the positions are filled. Florida Tech is an Equal Opportunity Employer.

### Florida State University Department of Computer Science Non-Tenure Track Faculty Position

Florida State University is seeking applications to fill a non-tenure track faculty position in the Department of Computer Science, starting Fall 2009. The faculty member will be expected to teach service courses including computer literacy and entry level programming courses, as well as all levels of courses

in the undergraduate computer science curriculum. The typical workload for this position will be three courses per semester. In addition, the candidates must be willing to provide service to the academic programs, the university, and the community. This is a 12-month position. Salary is competitive and commensurate with experience.

Prior successful teaching experience at the university level is highly preferred. Candidates must have an earned MS degree in Computer Science, although preference will be given to candidates with a PhD degree.

Further information can be found at <http://www.cs.fsu.edu>. FSU is located in the beautiful and picturesque Florida capital - a city of approximately 250,000, about an hour's drive from the Gulf Coast.

Screening will begin December 1, 2008 and will continue until the position is filled. Please use the on-line application form at:

<http://www.cs.fsu.edu/positions/apply.html>

Questions can be e-mailed to [recruitment@cs.fsu.edu](mailto:recruitment@cs.fsu.edu). The Florida State University is an Equal Opportunity/Affirmative Action employer, committed to diversity in hiring.

### George Mason University Volgenau School of Information Technology & Engineering Bioengineering Faculty

George Mason University, Volgenau School of Information Technology & Engineering is seeking faculty to assist in the building a new program in bioengineering. Each successful applicant will receive a tenure track appointment at the Assistant, Associate or Full Professor level in one of the existing six Volgenau School departments. Additional information on these departments is available at:

[http://volgenau.ite.gmu.edu/about\\_ite/departments](http://volgenau.ite.gmu.edu/about_ite/departments)

Successful candidates are expected to shape bioengineering at George Mason University by maintaining an active research program and teaching both at the undergraduate and graduate levels. Applicants for Assistant Professor must have earned a doctorate, or be very near to completing such a degree in bioengineering, biomedical engineering, computer science, computer engineering, electrical engineering, operations research, systems engineering, or other closely related fields. Applicants for a more senior, possibly tenured, position must have demonstrated substantial leadership in bioengineering.

Candidates should show evidence of strong research and teaching ability in one or more emerging areas of bioengineering. This includes activities such as taking measurements, collecting and analyzing data at the cellular or other levels, developing appropriate mathematical models or other computational tools to understand living systems, and manipulating or controlling such systems. Neuroengineering, rehabilitation engineering, and proteomics are of special interest due to strong potential for interactions with other academic units within the university. The ability to work with students and colleagues, and a willingness to conduct collaborative research are essential attributes. Candidates for a senior position must also have a strong record of external research support.

Questions about the position should be directed to Dr. Peter Katona, Professor and Chair, Bioengineering Search Committee ([pkatona@gmu.edu](mailto:pkatona@gmu.edu)) or to the chair of any of the Volgenau School departments.

Interested individuals should submit a CV and letter of intent (including statements of research and teaching interests and accomplishments), and names and contacts of three references for position F9165z at:

<http://jobs.gmu.edu>

The review of applications will begin immediately, and continue until the positions are filled.

George Mason University is an 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 employer that encourages diversity.

### Harvard Business School, Boston, MA

#### Research Computing Services (RCS) Director, Research Computing Services

Harvard Business School (HBS) seeks an experienced researcher and senior manager to oversee Research Computing Services (RCS), a world-class centralized service group dedicated to supporting the rapidly changing needs of the HBS research community. Its portfolio of services is unprecedented among business schools and contributes to HBS' ability to attract and retain faculty. The RCS staff serves a faculty of more than 200 members engaged in a wide range of HBS-funded research projects, on average, supporting some 25 percent of the faculty at any given time. Their projects have grown in size, complexity, and scope since the group was founded in 1997, as has their staff and service portfolio.

The Director will be responsible for managing this growth, developing and executing the research computing strategy, communicating with the community of researchers, collaborating with other faculty support functions, and managing a staff of ten in day-to-day operations. S/he and the research team will consult with faculty on their research plans, identify emerging research computing needs, and partner with the Information Technology Group (ITG) to ensure that faculty members receive exceptional client service during all phases of their research. Services provided include methodological and statistical consultation, data services (creation, management, and analysis of data sets), programming, research server administration, and experiment and survey data collection support.

The successful candidate will bring a deep understanding of the research process, significant relevant work experience, including leading a research support team, a strong client service orientation, excellent project management and negotiating skills, and the ability to think creatively and strategically regarding the application of technology to academic research. A PhD and experience with quantitative research is required; an experimental research background is a plus.

Electronic submission of all inquiries, nominations/referrals, and resumes with cover letters is preferred and should be sent in confidence to:

Martha Brest, Managing Associate  
Isaacson, Miller  
334 Boylston Street, Suite 500  
Boston, MA 02116  
e-mail: [3687@imsearch.com](mailto:3687@imsearch.com)

### Indiana University School of Informatics

#### Tenure-Track Faculty, Complex Systems

The School of Informatics at Indiana University invites applications for a tenure-track faculty position at any level in the area of Complex Systems to begin in August 2009.

Applicants should have a Ph.D. in any relevant field such as Computational, Systems, Cognitive, Physical, Mathematical, Economic, and Information Sciences; research interests in Complex Systems; and a well-established record or demonstrable potential for excellence in research and teaching.

The School of Informatics at Indiana University is the first of its kind and among the largest in the country, with a faculty of more than 80 full time members, 150 doctoral students, 200 masters students, and a large number of undergraduates majoring in either Informatics or Computer Science. ComputerWorld ranked Informatics as a "top-ten program to watch" thanks to its excellence and leadership in academic programs, interdisciplinary research, placement, and outreach.

The Complex Systems group ([cx.informatics.indiana.edu](http://informatics.indiana.edu)) currently has 10 faculty members with strong ties to several other units at Indiana University that pursue research in the field of Complex Systems, including Cognitive Science, Psychology, Physics, the Biocomplexity Institute, and the School of Library and Information Science.

The research sub-areas in the group include complex networks, artificial life and robotics, computational intelligence, bio-inspired computing, computational biology and epidemiology, large scale data modeling and simulation, and Web applications. We are particularly interested in strengthening our emphasis on modeling the dynamics of complex information networks, social networks and media, and their broad societal implications. We also encourage applicants whose interests link to other areas of strength of the School of Informatics including Computer Science, HCI, Social Informatics, Security, Life Science, and Music.

Successful applicants are expected to conduct an independent research program, establish scientific collaborations with present members of the group, participate in joint grant efforts, teach relevant graduate and undergraduate courses, and mentor graduate students.

We have excellent work conditions including low teaching loads, attractive salaries, and world-class computing, networking, and library facilities. Located on the wooded, rolling hills of southern Indiana, Bloomington is a culturally thriving college town with moderate cost of living. It is renowned for its top-ranked music school, performing and fine arts, historic campus, food tourism, cycling traditions, active lifestyle, and natural beauty.

Applicants should submit a curriculum vitae, a statement of research and teaching, and the names of three references (six for associate and full professors) using recruit link at <http://informatics.indiana.edu/hiring> which also has information on several concurrent searches in different areas. Materials can also be sent to:

Chair, Faculty Search Committee  
School of Informatics  
919 E 10th Street  
Bloomington, IN 47408

or by email to [hiring@informatics.indiana.edu](mailto:hiring@informatics.indiana.edu) where any questions can be directed. Review of applicants will begin immediately. To receive full consideration completed applications must be received by December 31, 2008. However, applications received after this date will be considered until all positions are filled.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

### Indiana University Department of Computer Science Full Professor

The Computer Science Department at Indiana University, Bloomington, invites applications for a faculty position at the rank of full professor. The Department seeks candidates with internationally recognized research in Computer Science who can contribute their vision and intellectual leadership to the Department. Applicants in all areas of computer science will be considered.

## Professional Opportunities

The department has historical strengths in core and forefront areas of Computer Sciences such as Programming Languages, Systems, Cognitive Science, and High Performance Computing. As a unit of Indiana University's internationally recognized School of Informatics, the department enjoys a unique environment for intellectual inquiry and collaboration. The faculty have a long tradition of excellence in undergraduate and graduate education that we seek to maintain and promote.

Bloomington is a vibrant college town combining access to world-class cultural activities with a modest cost of living. National Geographic identified Bloomington as one of its "Best Adventure Towns" and the surrounding area provides a wide variety of outdoor activities.

Instructions for submitting an on-line application may be found at:

<http://www.cs.indiana.edu/hiring>  
Materials can also be sent to:  
Faculty Search Committee  
Department of Computer Science  
Lindley Hall 215  
150 S. Woodlawn Ave.  
Bloomington, IN 47405-7104

or by email to [hiring@cs.indiana.edu](mailto:hiring@cs.indiana.edu) where any questions can also be directed. To receive full consideration completed application must be received by December 31, 2008. However, applications received after this date will be considered until all positions are filled.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

### Indiana University

Department of Computer Science  
*Tenure-Track Faculty Position*

The Computer Science Department at Indiana University, Bloomington, invites applications for one or more tenure-track faculty positions. We are particularly interested in candidates having a solid foundation in algorithms who can contribute to the Department's growing areas of large-scale computing and data and search (specifically data mining and machine learning), but outstanding applicants in all areas of computer science will be considered.

The department has historical strengths in core and forefront areas of Computer Sciences such as Programming Languages, Systems, Cognitive Science, and High Performance Computing. As a unit of Indiana University's internationally recognized School of Informatics, the department enjoys a unique environment for intellectual inquiry and collaboration. The faculty have a long tradition of excellence in undergraduate and graduate education that we seek to maintain and promote.

Bloomington is a vibrant college town combining access to world-class cultural activities with a modest cost of living. National Geographic identified Bloomington as one of its "Best Adventure Towns" and the surrounding area provides a wide variety of outdoor activities.

Instructions for submitting an on-line application may be found at:

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Faculty Search Committee  
Department of Computer Science  
Lindley Hall 215  
150 S. Woodlawn Ave.  
Bloomington, IN 47405-7104

or by email to [hiring@cs.indiana.edu](mailto:hiring@cs.indiana.edu) where any questions can also be directed. To receive full consideration completed application must be received by December 31, 2008. However, applications received after this date will be considered until all positions are filled.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

### Indiana University

School of Informatics  
*Faculty Position, Music Informatics*

The Indiana University School of Informatics seeks to fill a faculty position (all ranks will be considered) in Music Informatics starting in August 2009. Indiana University is home to the internationally recognized Jacobs School of Music, as well as the Variations3 Digital Library project. These resources, combined with the vibrant and interdisciplinary environment of the School of Informatics, provide an unparalleled home for researchers pursuing music informatics.

We expect applicants to have earned a PhD, to have a strong background in a technical area such as computer science, applied mathematics, or engineering, and to have deep experience with some aspect of music, such as composition, performance, or theory. A successful candidate will be a dedicated researcher, with a strong record of publication in scientific and music-science journals, and will either have a record of funded research, or strong potential for garnering external support. Candidates should also demonstrate potential for teaching excellence.

The research mission of our group encompasses both methodological and applied research. For the applied component, we seek candidates who will contribute to musical communities such as performers, teachers, scholars, and those interested in music commerce. Such research may include tools or systems for music search and retrieval, music data analyses, new performance paradigms, music pedagogy, music recognition through audio, image and video, and many others. While the applied component is important, we seek candidates whose research goes beyond applications, and also includes deeper musical questions, such as the nature of musical expression, music perception, and music modeling. We also seek candidates who develop original scientific methodology whose value is not limited to the musical domain.

The teaching mission of the music informatics program includes a new PhD program, a two-year MS program, as well as an undergraduate component. The successful candidate will be comfortable contributing to all levels of this curriculum.

The School of Informatics at Indiana University is the first of its kind and among the largest in the country, with a faculty of more than 80 full time members, 150 doctoral students, 200 masters students, and a large number of undergraduates majoring in either Informatics or Computer Science. ComputerWorld ranked Informatics as a "top-ten program to watch" thanks to its excellence and leadership in academic programs, interdisciplinary research, placement, and outreach. The SoI offers excellent work conditions. Located in the rolling, wooded hills of southern Indiana, Bloomington is a thriving college town with a thriving arts culture and a moderate cost of living.

Applicants should submit a curriculum vitae, a statement of research and teaching, and the names of three references (six for associate and full professors) using recruit link at <http://informatics.indiana.edu/hiring> which also has information on several concurrent searches in different areas. Materials can also be sent to:

Chair, Faculty Search Committee  
School of Informatics  
919 E 10th Street  
Bloomington, IN 47408

or by email to [hiring@informatics.indiana.edu](mailto:hiring@informatics.indiana.edu) where any questions can be directed. Review of applicants will begin immediately. To receive full consideration completed applications must be received by December 31, 2008. However, applications received after this date will be considered until all positions are filled.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

### Indiana University

School of Informatics  
*Associate/Full Professor, Network Security*

The School of Informatics at Indiana University invites applications for a tenured faculty position at the rank of Full or Associate Professor in the area of computer and network security, to begin in August 2009. Exceptional applicants at the rank of Assistant Professors may also be considered and may apply.

Candidates should have a Ph.D. in computer science or a related field. We seek a candidate who has demonstrated success in attracting competitive funding in computer security and information assurance. The ideal candidate must have a strong scholarly publication record, a commitment to teaching and mentoring, and interest in developing a cutting-edge, collaborative, interdisciplinary program. We welcome applications from all computer security domains. We are particularly interested in applicants with expertise in areas such as network security, secure systems & their composition, software security, information assurance, privacy, medical information security, and crimeware.

The School of Informatics offers a Bachelor of Science in Computer Science and in Informatics; Masters of Science degrees in Computer Science, HCI, BioInformatics, and Security Informatics and Doctoral programs in Computer Science and Informatics. ComputerWorld ranked Informatics as a top ten program to watch based on its interdisciplinary and commitment to applied student skills. The School of Informatics has 80 full time faculty members, 150 doctoral students and 200 masters students, in addition to widely subscribed undergraduate programs.

Indiana University is the home to the Global Network Operation Center (GRNOC). Indiana University is also the home of the ISAC for all Research and Education Networks, RENiSAC, which provides a critical source of data and expertise. In addition, IU is home to Big Red, one of the most powerful university-owned computers in the U.S. and one of the 50 fastest supercomputers in the world.

In addition to world-class research facilities, Bloomington is an arts oasis with the world renowned IU School of Music, which hosts two symphonies, an opera company, three theater companies, as well as being a reliable stop of traveling Broadway shows. The IU Art Museum and the Mathers Museum of World Cultures offer collections ranging from ancient glass to cutting edge installations. Bloomington is very hospitable to those with an active lifestyle, consistently being in the top ten cycling towns in the United States, as well as being rated as one of the Top 50 Adventure towns by National Geographic Adventure Magazine.

Applicants should submit a curriculum vitae, a statement of research and teaching, and the names of three references (six for associate and full professors) using recruit link at <http://informatics.indiana.edu/hiring> which also has information on several concurrent searches in different areas. Supporting materials can also be sent to:

Chair, Faculty Search Committee  
School of Informatics  
919 E 10th Street  
Bloomington, IN 47408

or by email to [hiring@informatics.indiana.edu](mailto:hiring@informatics.indiana.edu) where any questions can be directed. Review of applicants will begin immediately. To receive full consideration completed applications must be received by December 31, 2008. However, applications received after this date will be considered until all positions are filled.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

### Indiana University

School of Informatics  
*Assistant/Associate/Full Professor, Social Informatics*

The Indiana University School of Informatics seeks to fill one junior and one senior position in Social Informatics starting in August 2009. We define Social Informatics as study of the ways in which social dynamics and contemporary information and communications technologies (ICTs) mutually shape each other. We wish to hire scholars who are excellent researchers and teachers and who will provide substantial leadership in furthering the work we have already begun in developing our new interdisciplinary field.

The School of Informatics at Indiana University is the first of its kind and among the largest in the country, with a faculty of more than 80 full-time members. Indiana University is also home to the Rob Kling Center for Social Informatics, a campus-wide center that supports social informatics research across the disciplines. Indiana University offers a vibrant environment for innovative work in research and teaching. Successful candidates will hold a Ph.D. in a relevant field and will build on or complement our current areas of interest, which include: collaborative and community knowledge practices (e.g., free/libre and open source software projects); comparative methodologies for social informatics; ICTs and development; gender and technology; history of ICTs; political dimensions of ICTs; privacy and security in pervasive technologies (especially health-related applications); scientific work practices; science, technology, and society (STS); technology and social change; and technology and culture. We encourage applicants that link to other areas of strength of the School of Informatics including Complex Systems, Computer Science, HCI, Life Science Music and Security Informatics.

The School of Informatics offers excellent work conditions, including attractive salaries and research support, low teaching loads, and world-class computing and library facilities. Located in the rolling, wooded hills of southern Indiana, Bloomington is a college town with a thriving arts culture and a moderate cost of living.

Applicants should submit a curriculum vitae, a statement of research and teaching, and the names of three references (six for associate and full professors) using recruit link at <http://informatics.indiana.edu/hiring> which also has information on several concurrent searches in different areas. Supporting materials can also be sent to:

Chair, Faculty Search Committee  
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or by email to [hiring@informatics.indiana.edu](mailto:hiring@informatics.indiana.edu) where any questions can be directed. Review of applicants will begin immediately. To receive full consideration completed applications must be received by December 31, 2008. However, applications received after this date will be considered until all positions are filled.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

### Iowa State University

Electrical and Computer Engineering  
Department  
*Faculty Positions*

The Electrical and Computer Engineering Department at Iowa State University has immediate openings for faculty positions at all levels. Applications will be accepted from highly qualified individuals for regular faculty positions in the department in all core areas of expertise in Electrical or Computer Engineering, especially in computer engineering with emphasis on embedded systems; software engineering; information assurance and

(continued)

## Professional Opportunities

security; and power and energy/power electronics. Exceptional senior candidates in any area may be considered for endowed research chair/professorship positions.

Faculty positions also are available in interdisciplinary research areas as part of Iowa State University College of Engineering's aggressive mission to fill 50 college-wide positions with faculty who possess the talent to address the challenges that define worldwide quality of life and have global impact. The positions are targeted in the following interdisciplinary research and education cluster areas: Biosciences and Engineering, Energy Sciences and Technology, Engineering for Extreme Events, Information and Decision Sciences, and Engineering for Sustainability.

Duties for all positions will include undergraduate and graduate education, developing and sustaining externally-funded research, graduate student supervision and mentoring, and professional/institutional service.

All candidates must have an earned Ph.D. degree in Electrical Engineering, Computer Engineering, Computer Science, or related field, and they must have potential to excel in the classroom and to establish and maintain a productive externally funded research program. Associate and Full Professor candidates must, in addition, have an excellent record of externally funded research and internationally recognized scholarship.

Rank and salary are commensurate with qualifications. Screening will begin on November 1, 2008, and will continue until positions are filled. To guarantee consideration, complete applications must be received by January 19, 2009.

For regular faculty positions, apply online at [www.iastatejobs.com](http://www.iastatejobs.com), Vacancy #080579.

More information on this position can be viewed at:

<http://www.ece.iastate.edu/jobs>

For information on positions in the cluster areas and application process, visit: <http://www.engineering.iastate.edu/clusters>

Candidates may be subject to a background check.

ISU is an EO/AA employer.

### Johns Hopkins University Department of Computer Science Tenure-Track Faculty Position

The Department of Computer Science at Johns Hopkins University is seeking applications for a tenure-track faculty position. Our primary interest is hiring at the Assistant Professor level, but candidates of all ranks will be considered. All areas will be considered, but candidates with research agendas in security, applied algorithms, computer systems, or bioinformatics will receive special attention. All applicants must have a Ph.D. in computer science or a related field and are expected to show evidence of ability to establish a strong, independent, multidisciplinary, internationally recognized research program.

Commitment to quality teaching at the undergraduate and graduate levels will be required of all candidates considered. The department webpage at <http://www.cs.jhu.edu> provides information about the department, including links to research laboratories and centers.

Applicants should apply online at <http://www.cs.jhu.edu/apply> (for full consideration, before January 5, 2009). Questions should be directed to [fsearch@cs.jhu.edu](mailto:fsearch@cs.jhu.edu). The Department is committed to building a diverse educational environment: women and minorities are strongly encouraged to apply. The Johns Hopkins University is an EEO/AA employer.

Faculty Search  
Department of Computer Science  
Room 224 New, Engineering Building  
Johns Hopkins University  
Baltimore, MD 21218-2694  
Fax: 410-516-6134

Phone: 410-516-8775  
[fsearch@cs.jhu.edu](mailto:fsearch@cs.jhu.edu)  
<http://www.cs.jhu.edu/apply>

### Kansas State University Department of Computing and Information Sciences

#### Department Head Position

The Department of Computing and Information Sciences seeks a dynamic individual for its department head. The successful candidate will be a senior scholar/researcher who possesses a Ph.D. degree in Computer Science or in a closely related field, has excellent management abilities, and possesses effective interpersonal skills. The new head is anticipated to be tenured at full professor; candidates from all areas of computing are invited to apply.

The new head will administer teaching, research, scholarship, outreach, and service activities in a diverse and dynamic department consisting of 17 tenure-track faculty and 3 instructors, who lead research programs in bioinformatics and data mining, embedded and distributed systems, programming languages, security, and software engineering. Information about the department can be found at:

[www.cis.ksu.edu](http://www.cis.ksu.edu)

To apply, email a cover letter, vita, and contact information for four references to: [recruiting@cis.ksu.edu](mailto:recruiting@cis.ksu.edu) or mail hard copy to:

David Schmidt, Chair, Department  
Head Search Committee  
Computing and Information Sciences  
Department  
234 Nichols Hall  
Kansas State University  
Manhattan, KS 66506  
(Telephone: 785-532-7912)

Electronic submission (pdf, ps, doc, or txt) is preferred. Review of applications commences January 1, 2009 and continues until the position is filled.

Kansas State University is an equal opportunity/affirmative action employer. Qualified women and minorities are encouraged to apply.

### King Abdullah University of Science and Technology (KAUST)

#### Computer Science and Applied Mathematics Faculty Openings

King Abdullah University of Science and Technology (KAUST) is being established in Saudi Arabia as an international graduate-level research university dedicated to inspiring a new age of scientific achievement that will benefit the region and the world. As an independent and merit-based institution and one of the best endowed universities in the world, KAUST intends to become a major new contributor to the global network of collaborative research. It will enable researchers from around the globe to work together to solve challenging scientific and technological problems. The admission of students, the appointment, promotion and retention of faculty and staff, and all the educational, administrative and other activities of the University shall be conducted on the basis of equality, without regard to race, color, religion or gender.

KAUST is located on the Red Sea at Thuwal (80km north of Jeddah). Opening in September 2009, KAUST welcomes exceptional researchers, faculty and students from around the world. To be competitive, KAUST will offer very attractive base salaries and a wide range of benefits. Further information about KAUST can be found at <http://www.kaust.edu.sa/>.

KAUST invites applications for faculty positions at all ranks (Assistant, Associate, Full) in Applied Mathematics (with domain applications in the modeling of biological, physical, engineering, and financial systems) and Computer Science, including areas such as Computational Mathematics, High-Performance Scientific Computing,

Optimization, Computer Systems, Software Engineering, Algorithms and Computing Theory, Artificial Intelligence, Graphics, Databases, Human-Computer Interaction, Computer Vision and Perception, Robotics, and Bio-Informatics (this list is not exhaustive).

KAUST is also interested in applicants doing research at the interface of Computer Science and Applied Mathematics with other science and engineering disciplines. High priority will be given to the overall originality and promise of the candidate's work rather than the candidate's sub-area of specialization within Applied Mathematics and Computer Science.

An earned Ph.D. in Applied Mathematics, Computer Science, Computational Mathematics, Computational Science and Engineering, or a related field, evidence of the ability to pursue a program of research, and a strong commitment to graduate teaching are required. A successful candidate will be expected to teach courses at the graduate level and to build and lead a team of graduate students in Master's and Ph.D. research.

Applications should include a curriculum vitae, brief statements of research and teaching interests, and the names of at least 3 references for an Assistant Professor position, 6 references for an Associate Professor position, and 9 references for a Full Professor position. Candidates are requested to ask references to send their letters directly to the search committee. Applications and letters should be sent via electronic mail to [kaust-search@cs.stanford.edu](mailto:kaust-search@cs.stanford.edu). The review of applications will begin immediately, and applicants are strongly encouraged to submit applications as soon as possible; however, applications will continue to be accepted until December 2009, or all 10 available positions have been filled.

In 2008 and 2009, as part of an Academic Excellence Alliance agreement between KAUST and Stanford University, the KAUST faculty search will be conducted by a committee consisting of professors from the Computer Science Department and the Institute of Computational and Mathematical Engineering at Stanford University. This committee will select the top applicants and nominate them for faculty positions at KAUST. However, KAUST will be responsible for actual recruiting decisions, appointment offers, and explanations of employment benefits. The recruited faculty will be employed by KAUST, not by Stanford. Faculty members in Applied Mathematics and Computer Science recruited by KAUST before September 2009 will be hosted at Stanford University as Visiting Fellows until KAUST opens in September 2009. At Stanford, these Visiting Fellows will conduct research with Stanford faculty and will occasionally teach courses.

### Lehigh University Department of Computer Science and Engineering Faculty Opening

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Computer Science and Engineering at Lehigh University starting in August 2009.

The potential to establish a competitive research program and teach effectively at both the undergraduate and graduate level are essential prerequisites. The successful applicant will hold a Ph.D. in Computer Science, Computer Engineering, or a closely related field. Outstanding candidates in all areas of computer science will be considered, with priority given to candidates whose research involves the exploitation of parallel-processor architectures for solving high-performance computing problems in areas such as bioinformatics, environmental and atmospheric modeling, analysis of complex systems, real-time sensor processing, and computer vision. Applicants should have an interest in teaching core courses in

computer architecture as well as courses in their research area.

The Department includes IEEE and ACM fellows, and three NSF CAREER-award winners. We offer B.A., B.S., M.S., and Ph.D. degrees in Computer Science and jointly oversee B.S., M.S., and Ph.D. degree programs in Computer Engineering with our sister department, Electrical and Computer Engineering. We also offer a B.S. in Computer Science and Business jointly with the College of Business and Economics. Our involvement in multidisciplinary programs often results in opportunities for collaboration in cross-disciplinary sponsored research projects, including efforts in bioengineering, mobile robotics, sensor networks, and scientific computing.

Lehigh is a private institution ranked among the top 40 national research universities by U.S. News & World Report and is rated "most selective" by both Barron's and Peterson's guides. With a beautiful sylvan setting in Bethlehem, Pennsylvania, 80 miles west of New York City and 50 miles north of Philadelphia, Lehigh is conveniently located and offers an appealing mix of urban and rural lifestyles.

Applications can be submitted online at:

<http://www.cse.lehigh.edu/faculty-search>

and should include a cover letter, vita, and both teaching and research statements. In addition, please provide the names and email addresses of at least three references. Applications will be evaluated until the position is filled, but materials should be received by January 15, 2009 for full consideration.

Lehigh University is an affirmative action and equal employment opportunity employer, and is committed to recruiting and retaining women and minorities. Questions concerning this search may be sent to [faculty-search@cse.lehigh.edu](mailto:faculty-search@cse.lehigh.edu).

### Louisiana State University Department of Computer Science Tenure-Track Faculty Position in Software Engineering for Fall 2009

The Department of Computer Science (<http://www.csc.lsu.edu/>) seeks a candidate for a tenure-track position as an Assistant Professor/Associate Professor for Fall 2009. The successful candidate will work toward furthering the Departments Research/Teaching in the areas of Software Engineering and Applications. The Department of Computer Science values research with impact and visibility beyond computer science. Faculty activities are expected to support and to be integrated into the complimentary goals of the Department of Computer Science. LSU is connected to Louisiana Optical Network Initiative (LONI), high speed network. LONI, funded by a \$40M commitment from the state, will provide a 40 Gbps connection between new large scale computing resources deployed at Louisiana Research institutes. LSU is connected to the National Lambda Rail in Spring 2005, providing national and international high speed connectivity.

Required Qualifications: Ph.D. in Computer Science/Engineering or a related field. An offer of employment is contingent on a satisfactory pre-employment background check. Application reviews will begin January 15, 2009, and will continue until candidate is selected. Minorities and women are encouraged to apply for this position. Applicants should submit a letter of intent describing teaching and research interests along with the curriculum vita (including e-mail address) and the names and addresses of three references to:

[search2@csc.lsu.edu](mailto:search2@csc.lsu.edu)

LSU is an equal opportunity/equal access employer.

## Professional Opportunities

### Louisiana State University Department of Computer Science Tenure-Track Faculty Position in CyberSecurity/Internet Security/High- Performance Computing

The Department of Computer Science at Louisiana State University (<http://www.csc.lsu.edu>) seeks one candidate for tenure-track faculty position for Fall 2009. 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 \$40M 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](http://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 following fields: 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; excellent oral and written communication skills. Additional Qualifications Desired: distinguished record of scholarship commensurate with experience; exceptional potential for world-class research; commitment to both undergraduate and graduate education. A commitment to high quality professional service and active participation in college responsibilities are expected.

The search committee will begin to review applications on January 15, 2009 and will continue to do so until the position is filled. An offer of employment is contingent on a satisfactory pre-employment background check. Salary and rank will be commensurate with qualifications and experience. Women and minorities are encouraged to apply. For

consideration, please submit in electronic form the curriculum vitae (including e-mail address), statement of research and teaching interests, and the names and contact information for at least three references to:

[search1@csc.lsu.edu](mailto:search1@csc.lsu.edu)

LSU is an equal opportunity/equal access employer.

### Max Planck Institute for Software Systems (MPI-SWS)

#### Tenure-Track Faculty Openings

Applications are invited for tenure-track and tenured faculty 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.

MPI-SWS, founded in 2005, is part of a network of eighty Max Planck Institutes, 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-SWS aspires to meet the highest standards of excellence and international recognition with its research in software systems.

To this end, the institute offers a unique environment that combines the best aspects of a university department and a research laboratory:

a) Faculty receive generous base funding to build and lead a team of graduate students and post-docs. They have full academic freedom and publish their research results freely.

b) Faculty have the opportunity to supervise doctoral theses, teach graduate and undergraduate courses, and have the flexibility to incorporate teaching into their research agenda.

c) Faculty are provided with outstanding technical and administrative support facilities as well as internationally competitive compensation packages.

Funds have been committed to grow the institute to a strength of 17 tenured and tenure-track faculty, and about 100 doctoral and post-doctoral positions. Additional growth through outside funding is expected. 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 is located in Kaiserslautern and Saarbruecken, in the tri-border area of Germany, France and Luxembourg. The area offers a high standard of living, beautiful surroundings and easy access to major metropolitan areas 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 of 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 12, 2009, and applicants are strongly encouraged to apply by that date; however, applications will continue to be accepted until February 27, 2009.

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.

### McGill University

#### School of Computer Science

#### Assistant Professor, Theoretical CS

The School of Computer Science at McGill University invites applications for two tenure-track positions at the assistant professor level, to begin August 1, 2009, in the general area of theoretical computer science.

This includes broad areas of theoretical computer science such as algorithms and complexity analysis. For one of these, we are also particularly interested in the application of methods to areas such as geometric problem solving.

Complete pdf format applications, including a curriculum vitae, a list of publications with copies of two sample reprints, a research statement as well as a teaching statement, and the names and e-mail addresses of three references should be sent to [theory@cs.mcgill.ca](mailto:theory@cs.mcgill.ca).

Applications will be reviewed as soon as they are received. Applicants are strongly encouraged to apply before January 15<sup>th</sup> to assure full consideration.

The School of Computer Science offers a collegial environment with opportunities for interaction with world class researchers in areas including (but not limited to): computational geometry, discrete mathematics, mobile robotics, computer vision, probabilistic analysis of algorithms, bioinformatics, cryptography and quantum information, reasoning and learning, sensor networks, and scientific computing.

For further information on the School, see: <http://www.cs.mcgill.ca>.

McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities and others who may contribute to further diversification. All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

### McGill University

#### School of Computer Science

#### Assistant Professor, Bioinformatics

The School of Computer Science at McGill University wishes to invite applications for a tenure-track position at the assistant professor level, to begin August 1, 2009. Applications for more senior positions are also welcome. We are searching for a computational biologist who is interested in one of the following areas: algorithms in bioinformatics,

machine learning/statistical inference in bioinformatics, dynamical models in bioinformatics, and bioinformatics database and system design. Applicants should have a strong computational or mathematical background.

Bioinformatics at McGill University has greatly expanded over the past eight years and candidates would benefit from the world class medical school and biomedical research programs. The McGill Centre for Bioinformatics is comprised of approximately 16 members who are involved in large scale projects that include (but are not limited to) areas such as genomics, epigenomics, functional genomics, proteomics, single cell imaging, structural biology, cheminformatics, clinical informatics, modelling in physiology, and evolution.

Complete pdf format applications, including a curriculum vitae, a list of publications with copies of two sample reprints, a research statement as well as a teaching statement, and the names and e-mail addresses of three references should be sent to [biosearch@cs.mcgill.ca](mailto:biosearch@cs.mcgill.ca).

Applications should arrive before January 15<sup>th</sup> to be assured full consideration.

McGill University is the top-rated research university in Canada. It is located in the heart of vibrant, multicultural Montreal. More information on the School may be found at:

<http://www.cs.mcgill.ca>

For information on the McGill Centre for Bioinformatics, see:

<http://www.mcgill.ca/mcb/contact>

McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities and others who may contribute to further diversification. All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

### Mesalands Community College

#### Computer Science Department

#### Instructor

Computer Science Instructor, Full Time. For more information call (575) 461-4413, ext. 112 or visit our web site at: [www.mesalands.edu](http://www.mesalands.edu) and download the required application.

Mesalands Community College

911 South Tenth Street

Tucumcari, NM 88401

EOE

### Michigan Technological University

#### Department of Computer Science

#### Tenure-Track Faculty Position(s)

Applications are invited for one or more tenure-track faculty positions beginning August 2009. Candidates are expected to have a Ph.D. in computer science or a closely related field and to demonstrate potential for excellence in teaching and research. Candidates with interests in all areas of computer science will be considered. Of particular interest are candidates who are likely to participate in interdisciplinary research collaborations. Individuals with ongoing research support may be considered for research faculty positions.

The Department has 350 undergraduates in three degree programs (Computer Science, Computer Systems Science and Software Engineering) and approximately 40 M.S. and Ph.D. students. Faculty research interests include artificial intelligence, computer architecture, computer science education, compilers, distributed systems, graphics, human computer interaction, networks, parallel computing, security, software engineering, and visualization. In addition,

(continued)

### Faculty Positions, All Levels

Several faculty positions are available at Cornell's department of Computer Science. Candidates are invited to apply from any area of computer science and at all levels including tenured, tenure track, or lecturer. We are especially interested in programming languages, scientific computing, computational biology, networking, and machine learning. However, we are open to hiring in all other areas as well, including artificial intelligence, databases, game design, graphics, robotics, security, systems, and theory of computation.

To ensure full consideration, applications should be received by January 15, 2009, 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 [freeruit@cs.cornell.edu](mailto:freeruit@cs.cornell.edu)**

Cornell University, located in Ithaca, New York, is an inclusive, dynamic, and innovative Ivy League university and New York's land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university's mission of teaching, research, and outreach.



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

the Department has a central role in the interdisciplinary Computational Science and Engineering Ph.D. program which fosters research and teaching in the application of computer science to engineering and scientific problems.

In January 2005 the Department moved into the new Rekhi Computer Science Hall which includes space for graduate student and faculty offices, research and instructional labs, and classrooms. The facility also houses the Computational Science and Engineering Research Institute, providing access to high performance computing platforms. Internet 2 access is available.

Michigan Technological University is a research university with approximately 7,000 students and 400 faculty with educational and research programs in computing, engineering, physical, life- and social sciences, forestry, humanities and business. Michigan Tech is located in Michigan's scenic Upper Peninsula and is surrounded by Lake Superior and nearby forests. The community offers year-round recreational and cultural opportunities. This environment, combined with a competitive compensation package and a low cost of living, results in an excellent quality of life.

Review of applications will continue until the position is filled. Women and minorities are particularly encouraged to apply. Applicants should send a resume, email address, and a list of at least three references to:

Linda M. Ott, Chair  
Department of Computer Science  
Michigan Technological University  
Houghton, Michigan 49931  
linda@mtu.edu (906) 487-2209

For more information see our web page <http://cs.mtu.edu/>.

Michigan Technological University is an equal opportunity educational institution/ equal opportunity employer.

### NEC Laboratories America, Inc. Systems Architecture Department Research Staff – Parallel Computing Architectures for Intelligent Systems

NEC Laboratories America, a premier research facility of NEC Corporation, has an opening in the Systems Architecture Department located in Princeton, NJ. We invite applications from exceptional candidates (senior-level or junior-level) for a research staff (RSM) position. Candidates must have a PhD in CS, CE, or EE, and a strong research record and excellent credentials in the international research community. The focus of the position is to design, evaluate and deliver parallel computing software solutions on domain specific architectures to realize high-performance embedded and server systems. Applicants must be able to propose and execute innovative research projects, including prototyping effort that lead to demonstrations in an industry environment. Application-oriented candidates with experience in implementations of algorithms in the areas of machine vision, machine learning or data mining will be considered as well.

For more information, please visit <http://www.nec-labs.com>. Interested applicants should send their resume and research statement to [recruit@nec-labs.com](mailto:recruit@nec-labs.com) and reference "Systems Architecture" in the subject line.

EOE/AA/MFDV

### New Jersey Institute of Technology Computer Science Department Assistant Professor/Software Engineering

The Computer Science Dept. at New Jersey Institute of Technology (NJIT) seeks to hire faculty for a tenure-track position beginning Fall 2009. Applications are invited from candidates with research & teaching interests in multiple aspects of software, such as Software Engineering & Web Technologies & Services. Experience with practical software building and/or Open Source projects a plus.

Applicant should have a PhD (or expect to receive one by summer 2009) in computer science. Applicant should have demonstrated potential for original research, a commitment to excellence in teaching & familiarity with practical aspects of software. Salary is competitive & commensurate with appointment rank & qualifications.

NJIT is a public research university. The dept. offers programs at the undergraduate, masters & PhD levels in Computer Science. The dept. also offers undergraduate & graduate degree programs in Bioinformatics.

NJIT is located in Newark's University Heights, a multi-institutional campus shared with Rutgers University at Newark, the University of Medicine & Dentistry of New Jersey & Science Park. NJIT's location in the NY metro area is ideal for research collaboration. The area is home to other universities & research laboratories, as well as major financial, telecommunications & pharmaceutical companies, offering excellent opportunities for collaboration, consulting & industry sponsored research.

New Jersey enjoys a high standard of living & quality of life. Newark is minutes from New York City & close to the Jersey Shore, providing a wide range of cultural & leisure activities.

To apply, visit [njit.jobs](http://njit.jobs) & must use posting #0600306. Please include the following:

- CV
- research statement
- teaching statement
- cover letter

Please also ask at least three references to send letters of recommendation to [faculty-search@cs.njit.edu](mailto:faculty-search@cs.njit.edu). For more information about the Computer Science Department, visit: [cs.njit.edu](http://cs.njit.edu).

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

### New Mexico State University Computer Science Department Tenure-Track Position

The Computer Science Department at New Mexico State University invites applications for a tenure-track position at the assistant professor level, with appointment starting in the Fall semester 2009. We are particularly interested in candidates with expertise in computer networks and related areas. Applications from women and members of traditionally under-represented groups are particularly encouraged. Salary and start up package will be competitive and commensurate with qualifications and experience.

The minimum qualifications are a Ph.D. degree in Computer Science or in a closely-related discipline by the time of appointment, along with demonstrated evidence of excellence in teaching and research. We particularly solicit applications from candidates with experience in inter-disciplinary research activities and candidates whose research foci complement and integrate the existing research activities in the Department, in areas like knowledge representation and software engineering. The successful candidate will be expected to develop an independent research program and teach graduate and undergraduate courses in Computer Science.

The Department has strong research and educational programs, extensive computing infrastructure (which includes several parallel and distributed platforms), and various computing and research laboratories. The Department offers B.S., M.S., and Ph.D. degrees in Computer Science; it actively participates in several inter-disciplinary educational programs. The Department has received extensive funding for support of its instructional and research activities from a broad spectrum of agencies, including a \$4.5M grant from NSF to establish a Center for Research Excellence in Bioinformatics.

NMSU is located in southern New Mexico, the "Land of Enchantment", just 50 miles from the El Paso airport. NMSU is a land grant institution, with strong research programs and a tradition in serving a diverse student population (NMSU is a Minority-serving Institution). The NMSU campus houses the Physical Science Laboratory and has close ties to Sandia and Los Alamos National Laboratories, the White Sands Missile Range, and the National Center for Genomics Research. For more information, please visit:

<http://www.cs.nmsu.edu>

Applicants should submit a letter of intent, complete curriculum vitae, a research and teaching statement, and at least three letters of reference to:

Dr. Son Cao Tran, CS Faculty Search  
Chair  
Department of Computer Science,  
New Mexico State University  
P.O. Box 30001, MSC CS  
Las Cruces, NM 88003, USA  
Enquiries by email ([faculty\\_search@cs.nmsu.edu](mailto:faculty_search@cs.nmsu.edu)) are welcome. Screening will begin November 17, 2008. Applications will be accepted until the position is filled.

New Mexico State University is an EEO/AA Employer. All university positions are contingent upon availability of funding. All offers of employment, oral and written, are contingent on the university's verification of credentials and other information required by federal law, state law, and NMSU policies/procedures, and may include the completion of a criminal history check.

### New York University Department of Computer Science Faculty Openings

The department expects to have several regular faculty positions beginning in September 2009 and invites candidates at all levels. We will consider outstanding candidates in any area of computer science with systems and machine learning being high-priority areas.

Faculty members are expected to be outstanding scholars and to participate in teaching at all levels from undergraduate to doctoral. New appointees will be offered competitive salaries and startup packages, with affordable housing within a short walking distance of the department. New York University is located in Greenwich Village, one of the most attractive residential areas of Manhattan.

The department has 34 regular faculty members and several clinical, research, adjunct, and visiting faculty members. The department's current research interests include algorithms and theory, computational biology, computer vision, cryptography, distributed and parallel computing, graphics and multimedia, machine learning, natural language processing, networking, scientific computing, and verification and programming languages.

Collaborative research with industry is facilitated by geographic proximity to computer science activities at AT&T, Google, IBM, Bell Labs, NEC, Siemens and Telcordia.

Please apply online at [http://web.nyu.edu/faculty\\_applications/](http://web.nyu.edu/faculty_applications/)

To guarantee full consideration, applications should be submitted no later than January 2, 2009; however, this is not a hard deadline, as all candidates will be considered to the extent feasible, until all positions are filled. Visiting positions may also be available.

New York University is an equal opportunity/affirmative action employer.

### Oklahoma State University, Stillwater Computer Science Department Faculty Position

The Oklahoma State University (OSU) Computer Science Department is seeking applications for an anticipated full-time, tenure-track Assistant Professor position from qualified candidates in any area of Computer Science. A Ph.D. or D.Sc. in

Computer Science or a closely related area is required. The position being sought is for the Tulsa campus and duties may be assigned to either Stillwater or Tulsa campuses or both. The term of initial appointment will begin in September, 2009.

The OSU Computer Science Department offers B.S., M.S., and Ph.D. degrees in Computer Science. There are currently more than 100 undergraduate and 110 graduate students enrolled in the department.

Oklahoma State University encourages applications from qualified women, minorities, and persons with disabilities. Please send curriculum vitae, a statement on teaching and research experience, and names of three references (pdf mail preferred) to:

Chair, Faculty Search Committee  
Computer Science Department, 219  
MSCS  
Oklahoma State University  
Stillwater, OK 74078-1053  
Telephone: (405) 744-5668; FAX: (405) 744-9097.

E-mail: [faculty-search@cs.okstate.edu](mailto:faculty-search@cs.okstate.edu).  
WW:<http://www.cs.okstate.edu/search>

For full consideration applications should be received by December 1, 2008, but applications will be accepted until the position has been filled. Oklahoma State University is an Affirmative Action/Equal Opportunity/E-Verify Employer committed to diversity.

### Palo Alto Research Center (PARC)

Intelligent Systems Laboratory  
Area Manager, Natural Language and Reasoning

We invite applications for the position of Area Manager for our natural language group. The ideal candidate has experience leading a multi-disciplinary group in computational linguistics, knowledge representation and modeling, and reasoning, with interests in both basic and applied research. Responsibilities include research vision and leadership, contract acquisition and relationship management, and project and group management. Substantial relevant experience is required. For more information see [www.parc.com/employment](http://www.parc.com/employment).

The Intelligent Systems Lab imagines and delivers core technologies for helping people to perceive, reason, and interact in a complex world. A subsidiary of Xerox, PARC's funding comes from corporate sources, government agencies, and licensing. We provide opportunities and support for bringing visionary ideas to commercial realization.

PARC is an Equal Employment Opportunity company committed to workforce diversity, provides excellent benefits, and offers flexible working arrangements for employees.

How to apply: Please send a CV, cover letter, and research statement via [www.parc.com/employment](http://www.parc.com/employment).

### Purdue University Department of Computer Science Tenure-Track Positions

The Department of Computer Science at Purdue University invites applications for tenure-track positions at the assistant professor level beginning August 2009. Outstanding candidates in all areas of Computer Science will be considered.

The Department of Computer Science offers a stimulating and nurturing academic environment. Forty-four faculty members direct research programs in analysis of algorithms, bioinformatics, databases, distributed and parallel computing, graphics and visualization, information security, machine learning, networking, programming languages and compilers, scientific computing, and software engineering. The department has implemented a strategic plan for future growth supported by the higher administration and recently moved into a new building. Further information about the department is available at: <http://www.cs.purdue.edu>

## Professional Opportunities



### School of Electrical Engineering and Computer Science

The School of Electrical Engineering and Computer Science at Oregon State University invites applications for tenure-track positions in Computer Science. The School of EECS strongly encourages teamwork and collaboration within the School, and with other departments and universities. We are particularly interested in candidates who can collaborate with our Graphics/Visualization, End-User Software Engineering and Machine Learning groups. The following areas are strong possibilities for collaboration with these groups: Human Computer Interaction; Theoretical Computer Science.

Applicants should have an earned doctorate in Computer Science/Computer Engineering by the appointment start date and demonstrate a strong commitment to high-quality undergraduate and graduate teaching and the development of a vibrant research program.

OSU is one of only two American universities to hold the Land Grant, Sea Grant, Sun Grant, and Space Grant designation and is the only Oregon institution recognized for its "very high research activity" (RU/VH) by the Carnegie Foundation for the Advancement of Teaching. With a faculty of 45, the School of EECS enrolls 1300 undergraduate and 300 MS/PhD students.

For more information, including instructions for application, visit <http://www.eecs.oregonstate.edu>. OSU is an AA/EOE.

All applicants should hold a PhD in Computer Science, or a closely related discipline, be committed to excellence in teaching, and have demonstrated potential for excellence in research. Salary and benefits are highly competitive. Applicants should apply online at:

<https://hiring.science.purdue.edu>

Review of applications will begin on October 1, 2008, and will continue until the positions are filled. Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer fully committed to achieving a diverse workforce.

#### Rice University

Department of Computer Science  
Faculty and/or Research Positions

The Department of Computer Science at Rice University seeks applications for several tenure-track faculty appointments to start in July 2009. We welcome outstanding candidates in all areas of computer science. We are particularly looking for candidates with interests and experience in any aspect of one of the following two areas:

- Analyzing, designing, and verifying complex systems. These systems maybe biological, mechanical or information-based. Examples of complex systems include but are not limited to swarm-based robotics, multi-agent artificial intelligence, social networks and synthetic biology. This search is part of a larger School of Engineering search in complex systems involving multiple positions in multiple departments.
- Biomedical informatics, including but not limited to work in bio-informatics, computational biology, imaging informatics, clinical informatics and public health informatics. This search is

in anticipation of furthering Rice University's collaboration with the Baylor College of Medicine and Texas Children's Hospital. These positions are designed to facilitate joint research between Rice faculty and members of the Texas Medical Center.

We anticipate hiring at all ranks including Assistant Professor, Associate Professor and Full Professor. 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, three 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.

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, 2009, 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](mailto:darnell@rice.edu).

Rice University is an Equal Opportunity/Affirmative Action Employer.

#### Rochester Institute of Technology

Computer and Information Sciences  
Faculty Openings for Fall 2009

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

- Two tenured/tenure-track faculty to support its interdisciplinary Ph.D. program in areas including, but not limited to, biomedical imaging and computing, computational modeling and simulation, scientific computing, and service sciences (IRC #26155)
- Two tenure-track Computer Science faculty, at the assistant professor rank, in the areas of data management, programming concepts and tools, and scientific/

distributed computing (IRC #26157)

- A tenure-track faculty in Software Engineering in the areas of quality assurance, secure software systems, software engineering management, and software engineering process (IRC #26119)
- One, and possibly two, tenure-track faculty in Game Design & Development (IRC #26160)

Successful candidates must demonstrate excellence in teaching and scholarship and have the ability to contribute in meaningful ways to RIT's commitment to cultural diversity and pluralism. A terminal degree in the discipline, or closely related field, or equivalent experience is required.

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 PhD program in Computing and Information Sciences, the research arm of the college. The College is housed in 125,000 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 550 Master's level graduate students.

Candidates should visit <https://mycareer.rit.edu> and refer to the IRC number listed above for specific information about the positions and the application process. Refer to [www.rit.edu](http://www.rit.edu) for information about RIT and the B. Thomas Golisano College of Computing and Information Sciences.

RIT- Selected as one of the top colleges to work for by The Chronicle of Higher Education (July 2008)

#### Stanford University

Department of Computer Science  
Faculty Opening, Junior Level

The Department of Computer Science at Stanford University invites applications for a tenure-track faculty position at the junior level (Assistant or untenured Associate Professor). We give high priority to the overall originality and promise of the candidate's work rather than the candidate's sub-area of specialization within Computer Science.

We are seeking applicants from all areas of Computer Science, including Foundations, Systems, Artificial Intelligence, Graphics, Computer Vision and Perception, Databases, and Human-Computer Interaction. We are also interested in applicants doing research at the frontiers of Computer Science with other disciplines, such as Biology, Neuroscience, Economics, Education, and Art, with potential connections to Stanford's main multidisciplinary initiatives: Human Health, Environment and Sustainability, the Arts and Creativity, and the International Initiative.

An earned Ph.D., evidence of the ability to pursue a program of research, and a strong commitment to graduate and undergraduate teaching are required. A successful candidate will be expected to teach courses at the graduate and undergraduate levels and to build and lead a team of graduate students in Ph.D. research. Further information about the Computer Science Department can be found at <http://cs.stanford.edu/>. The School of Engineering website may be found at <http://soe.stanford.edu/>.

Applications should include a curriculum vitae, brief statements of research and teaching interests, and the names of at least four references. Candidates are requested to ask references to send their letters directly to the search committee. Applications and letters should be sent to: Search Committee Chair, c/o Laura Kenny-Carlson, via electronic mail to [search@cs.stanford.edu](mailto:search@cs.stanford.edu).

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## Professional Opportunities

The review of applications will begin on January 2, 2009, and applicants are strongly encouraged to submit applications by that date; however, applications will continue to be accepted until February 1, 2009 or until the position is filled.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.

### Stanford University Department of Computer Science Faculty Opening, Senior Level

The Department of Computer Science at Stanford University invites applications for a senior-level teaching faculty position. The appointment will be made as a non-

tenure line Professor (Teaching), with rank (Associate or Full Professor) depending upon the candidate's seniority and experience.

The candidate's responsibilities include: teaching classes (typically four courses during the three quarters of the regular academic year), working to develop CS undergraduate curriculum, and involvement in the broader CS educational community. The ideal applicant for this position will have a strong commitment to and demonstrated aptitude for teaching, as well as an established reputation and national visibility in Computer Science Education. All candidates must hold a Ph.D. in computer science or a closely related discipline. Further information about the Computer Science Department at Stanford can be found at: <http://cs.stanford.edu/>.

Applications should include a cover letter, curriculum vitae, teaching statement, material relevant to evaluating the applicant's teaching abilities, and the names of at least three references. Candidates are requested to ask references to send their letters directly to the search committee. Applications and letters should be sent to: Search Committee Chair, c/o Laura Kenny-Carlson, via electronic mail to: [search@cs.stanford.edu](mailto:search@cs.stanford.edu). Applications will be accepted until January 2, 2009.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.

### Swinburne University of Technology, Melbourne, Australia

Centre for Complex Software Systems  
and Services

#### Professor/Associate Professor

The Centre for Complex Software Systems and Services (CS<sup>3</sup>) at Faculty of Information and Communication Technologies, Swinburne University of Technology, Melbourne, Australia, is seeking to appoint a senior research academic at the Professor or Associate Professor level. Information on the Centre is available at: [www.swin.edu.au/ict/research/cs3](http://www.swin.edu.au/ict/research/cs3)

The Centre's research focuses on developing new methods, techniques and tools for the modelling, engineering and management of Complex Software Systems and Services, including Service Oriented Systems, Enterprise Software systems, Social Software Systems and Cloud Computing Systems. It embraces research in Component Software Technology, Intelligent Agents Technology, Web and Data Technology, and Workflow Technology. The Centre has a major goal to enable synergy across its research areas to further strengthen its national and international profile.

For position information and to apply online go to: [www.swinburne.edu.au/jobs](http://www.swinburne.edu.au/jobs)  
Applications Close 5pm on Friday 7 November 2008

For further information contact Professor Ryszard Kowalczyk, on: +61 3 9214 5834 or email to: [rkowalczyk@swin.edu.au](mailto:rkowalczyk@swin.edu.au).

### Union College

Department of Computer Science  
Two Tenure-Track Assistant Professor  
Positions

We invite applications for two tenure-track assistant professor positions beginning September, 2009. A Ph.D. in computer science or a closely related field is required. Candidates must be strongly committed to undergraduate education and have a sustainable research program. We are interested in candidates who work in systems areas such as parallel and distributed computing, networking, and security, or in computer graphics, robotics, or computer gaming, but all areas of computer science will be considered. The department offers a B.S. in computer science, a B.S. in computer engineering with the Electrical and Computer Engineering department, and a digital art program with the Visual Arts department. We are developing programs in cognitive science and computational science. We offer introductory courses that encourage students with a variety of interests to study CS. Faculty research areas include HCI, NLP, databases, software testing, software design, and computing history.

Union College is a highly selective liberal arts and engineering college in New York State's Capital Region, three hours from NYC and Boston. It emphasizes close collaborations between faculty and students and has a campus-wide initiative promoting interdisciplinary activities.

Further information: <http://cs.union.edu>

Applicants should submit an application letter, CV, statements of teaching and research goals, and have three reference letters sent separately. Send applications and recommendations to:

Search Committee  
Computer Science Department  
Union College  
Scheneectady, NY 12308

Emailed recommendation letters only may be sent to: [cs-refletters@union.edu](mailto:cs-refletters@union.edu). Applications received by December 15, 2008, will receive full consideration.

Union College is an equal opportunity employer and strongly committed to student and workforce diversity.

### The University of Alabama at Birmingham

Department of Computer and  
Information Sciences  
Assistant/Associate Professor

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, 2009. 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 vitae 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](mailto: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 California, Davis Department of Statistics

Tenure-Track Assistant/Associate/  
Full Professor

Tenure-track Assistant or tenured Associate/Full Professor Statistics invites applications for one tenure-track Assistant/Associate/Full Professor beginning 7/1/2009. Requires Ph.D. in Statistics or related field and research interest in statistical methods for large and complex data (emphasis in computing, algorithms, bioinformatics, imaging or finance). Application review begins 12/1/08 until position is filled.

For more information see:  
<http://www.stat.ucdavis.edu/employment/academic/>



### PROFESSOR OF COMPUTER SCIENCE DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE FRANKLIN & MARSHALL COLLEGE

Franklin & Marshall College invites applications for a tenure-track Assistant Professor position in COMPUTER SCIENCE, beginning Fall 2009.

The successful candidate will have a Ph.D. in Computer Science (or a related field) with a specialty in informatics. While the initial appointment will be in the Department of Mathematics, the College is committed to forming a new department of Computer Science. In addition, in 2008, the Howard Hughes Medical Institute awarded the College a substantial grant to launch a bioinformatics program. The successful candidate will—together with colleagues in Computer Science and Biology—design, implement, and sustain new majors in Computer Science and Bioinformatics.

Our teaching load is 3/2 and includes participation in the College's general education requirement, "Foundations," and/or our First-Year Seminar program. A course release is available in each of the first two years for work on program development. Salary will be competitive with computer science salaries at other liberal arts institutions, and significant support is provided for students to collaborate on research.

Teaching experience, evidence of scholarly achievement, and demonstrated interest in collaborating with colleagues from other disciplines are all required. Candidates should submit the following to Barbara Nimershiem, Chair, Computer Science Search Committee, Franklin & Marshall College, P.O. Box 3003, Lancaster PA 17604-3003 USA:

- a letter of application;
- a *curriculum vitae*;
- teaching and research statements;
- teaching evaluations (by students and/or supervisors);
- a graduate transcript; and
- three letters of recommendation, including at least one that addresses the applicant's teaching ability.

We will not accept application materials electronically. Completed applications received by December 1, 2008, are guaranteed full consideration, although review of applications will continue until the position is filled. Direct any questions to [cssearch@fandm.edu](mailto:cssearch@fandm.edu) or call Barbara Nimershiem at 717-291-3932.

Franklin & Marshall College is a highly selective liberal arts college located in Lancaster, Pennsylvania, about one and one half hours from both Philadelphia and Baltimore. For more information about the College, see our web site at [www.fandm.edu](http://www.fandm.edu). Franklin & Marshall College has a demonstrated commitment to cultural pluralism. EOE

## Professional Opportunities

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 & Computer Sciences

#### *Endowed, Distinguished Faculty Positions*

The Donald Bren School of Information and Computer Sciences was endowed with a transformational gift that included ten "Bren Chairs" to be filled with scholars who are internationally-recognized as leaders in emerging issues of any area of information and computer sciences, including cross-disciplinary research integrating information and computer sciences with other disciplines. The Bren Professors are some of the most distinguished appointments at UC Irvine.

Candidates should bring an integrative outlook to the discipline, enthusiasm in engaging with professional and business communities and the general public, collaborating with UCI scholars who study issues of information and computing technology, and support for the development of innovative technologies and applications. We envision Bren chair-holders to serve as catalysts on campus to establish educational and research programs that foster an interdisciplinary perspective. Accordingly, candidates should not only have a strong disciplinary background with a distinguished record of scholarly publications and extramural funding, but also a proven track record of innovation, collaboration, stimulation and leadership in both education and research.

Appointments will be in the Department of Computer Science, Informatics, or Statistics at the rank of senior, distinguished professor. Scholars doing truly cross-disciplinary research may be jointly appointed with another school at UC Irvine. Four chairs are currently filled.

Candidate screening will begin immediately upon receipt of materials. Applications or nominations should include a cover letter indicating the area of primary research, a CV, up to five recent publications, and identification of five or more references. Electronic submission is preferred; please refer to the following web site for instructions:

[http://www.ics.uci.edu/employment/employ\\_faculty.php](http://www.ics.uci.edu/employment/employ_faculty.php)

Paper applications should be sent to: ATTN: Faculty Recruiting - Bren Chair Donald Bren School of Information and Computer Sciences University of California, Irvine Irvine, CA 92697-3425

The Bren School of ICS has excellent faculty, innovative programs, high quality students and outstanding graduates as well as strong relationships with local and national high tech industry. As one of eleven academic units at UC Irvine, an independent school with three departments - Computer Science, Informatics, and Statistics - the Bren School has a unique perspective that provides a broad foundation from which to build initiatives that explore the full extent of the computing and information disciplines. With 71 regular-rank faculty members, seven full-time lecturers, approximately 275 doctoral, 130 masters, and 1000 undergraduate students, ICS is one of the largest computing programs in the country. Many faculty in the school engage in interdisciplinary research through various organizations such as the California Institute for Telecommunications and Information Technology (Calit2), the Institute for Genomics and Bioinformatics (IGB), ACE (Arts Computation Engineering), to name but a few. The Bren School of ICS just dedicated a contemporary high-tech building designed to enhance collaborative research and education, and continues to grow. Outstanding candidates in all

relevant areas and at other ranks are encouraged to contact us.

UC Irvine (<http://www.uci.edu>) is targeted as a growth campus for the University of California. It is one of the youngest UC campuses, yet consistently ranks among the nation's best public universities. UCI is located three miles from the ocean in southern California with an excellent year-round Mediterranean climate. The area surrounding campus offers numerous outdoor and fine arts opportunities and the public school system in Irvine is ranked one of the highest in the nation.

UCI is an equal opportunity employer committed to excellence through diversity and strongly encourages applications from all qualified candidates, including women and minorities. UCI is responsive to the needs of dual career couples, is dedicated to work-life balance through an array of family-friendly policies, and is the recipient of a National Science Foundation ADVANCE award for gender equity.

### University of California, San Diego

#### Cognitive Science Department Two Assistant Professor Level (may consider candidates who qualify for a higher rank)

The Department of Cognitive Science at the University of California, San Diego invites applications for two faculty positions. The department has a preference for top-caliber junior researchers in cognitive science to be appointed at the assistant professor level, but may consider candidates who qualify for a higher rank. Appointments begin July 1, 2009. Salary is commensurate with the experience and based on the University of California pay scale.

The UCSD Department of Cognitive Science was the first of its kind in the world, and, as part of an exceptional scientific community, continues to influence the field it helped to create. The department is truly interdisciplinary, with a faculty whose interests span anthropology, computer science, human development, linguistics, neuroscience, philosophy, psychology, and sociology.

Applicants must have a Ph.D. (or ABD). We seek one applicant with a research focus on human computer interaction, and one in language and cognition. For both positions an interdisciplinary perspective and experience with multiple methodologies is highly valued. Women and minorities are encouraged to apply. UCSD is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity.

Although we will accept applications until the positions are filled, we encourage application by November 15, 2008 for full consideration. Candidates should submit, via online application, a vita, reprints of up to four representative publications, a short cover letter describing background and interests, and at least three references (name, title, address and email). Applicants are welcome to include in their cover letter a statement summarizing their contributions to diversity.

To apply, please see "NEW Faculty Positions" at <http://www.cogsci.ucsd.edu/>

### University of California, Santa Barbara Department of Computer Science Tenure-Track Position

The Department of Computer Science at the University of California, Santa Barbara, has an open position in Computer Science for the forthcoming academic year 2009-10. We seek applications from outstanding candidates in all areas of computer science to fill this tenure-track position effective July 2009.

The Department of Computer Science has grown rapidly, both in size and stature, over the past 10 years, accompanied by a five-fold increase in extramural funding. The department, with 30 faculty and

more than 100 doctoral students, is part of the College of Engineering, which is ranked among the top 20 in the nation by the 2008 US News and World Report. Additional information about the department and our graduate program can be found at <http://www.cs.ucsb.edu>. Applicants are expected to hold a doctoral degree in Computer Science or a related field, show outstanding research potential, and have a strong commitment to teaching.

Primary consideration will be given to applications received by December 15, 2008; however, the position will remain open until filled. Applications should be submitted electronically as PDF documents to: <http://www.cs.ucsb.edu/recruit>. Applications must include a detailed resume, research and teaching statements, and the names and addresses of four references.

The Department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service. We are an Equal Opportunity/Affirmative Action employer.

### University of California, Santa Barbara

#### Media Arts and Technology Graduate Program

##### Tenure-Track Assistant Professor

The Media Arts and Technology Program at the University of California, Santa Barbara, invites applications for a tenure-track position at the assistant professor level, starting July 1, 2009. The department seeks candidates who will establish a vigorous research and teaching program in computer graphics, scientific/information visualization, or a related field applicable to immersive, interactive, and distributed environments, working with high-dimensional data generated in scientific and artistic domains. The successful candidate will be expected to collaborate with artists, engineers, and scientists in an interdisciplinary environment of research, creative work, and teaching.

Media Arts and Technology (MAT) is a transdisciplinary graduate program at UCSB in both the College of Letters and Science (Division of Humanities and Fine Arts) and the College of Engineering. MAT offers Master's and PhD degrees and has approximately 40 graduate students and 10 faculty, several with joint appointments in engineering and arts departments. Areas of expertise include human-computer interaction, electronic music and sound design, computational visual and spatial arts, and multimedia signal processing. Offices and labs are housed in the new California Nanosystems Institute building at UCSB, which includes a unique research facility called the Allosphere, a three-story spherical immersive environment. Additional information about the department can be found at <http://www.mat.ucsb.edu>.

Applicants are expected to hold a doctoral degree in Media Arts and Sciences, Computer Science, or a closely related field, have demonstrated excellence in research, and have a strong commitment to teaching and interdisciplinary scholarship and/or creative activity.

The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service. Primary consideration will be given to applications received by December 15, 2008; however, the position will remain open until filled. Applications must include a CV, research and teaching statements, and at least three letters of reference. See <http://www.mat.ucsb.edu/recruit> for information on how to apply.

The University of California is an Equal Opportunity / Affirmative Action Employer.

### University of California, Santa Cruz

#### Computer Science Department Assistant Professor Position

The UCSC Computer Science Department seeks qualified applicants for the following tenure-track faculty position within the Baskin School of Engineering: Assistant Professor, Position #034-09

Research Interests: Outstanding Applicants with Research Excellence in Software Engineering, especially those with research distinction in software analysis and automated software generation techniques.

The department has strong graduate and undergraduate programs. Research and instruction are supported by excellent computing facilities and state-of-the-art laboratories in the new Engineering 2 building. UCSC is close to Silicon Valley and has strong ties with many of the high technology companies in the area. Faculty salaries are competitive and opportunities for consulting are extensive.

A detailed job description and application instructions are available at [www.soe.ucsc.edu/jobs/](http://www.soe.ucsc.edu/jobs/) For full consideration, all materials should reference position number 034-09 and arrive by January 9, 2009. UCSC is an EEO/AA/IRCA Employer.

### University of Central Arkansas Computer Science Department

#### Faculty Position

The Computer Science Department at the University of Central Arkansas (UCA) invites applications to fill one tenure-track faculty position at the assistant/associate professor level to start in Fall 2009. Applicants should have a PhD degree in an area of computer science and/or computer engineering. All fields will be considered, however, applicants with specialty in service oriented systems, enterprise software systems and cloud computing systems will be given preferential consideration. A strong commitment to excellence in teaching and to research involving students is expected.

The department offers BS (accredited by ABET since October 2006) and MS degree programs and enjoys strong support from local corporations. UCA is the second largest university in Arkansas and is committed to excellence in undergraduate and graduate education. It has been ranked in the top tier of universities in the south since 2006. For more information about the department and the university, visit [www.cs.uca.edu](http://www.cs.uca.edu).

Applicants should send their curriculum vitae, statements of teaching

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## CRA Service Awards 2009

Distinguished Service Award

A. Nico Habermann Award

Nominations Due:

**January 30, 2009**

Details: <http://www.cra.org>

## Professional Opportunities

and research interests, transcripts, and at least three letters of reference to:

Chair, CS Search Committee  
Computer Science Department  
University of Central Arkansas  
201 Donaghey Avenue  
Conway, AR 72035

Electronic submission may be sent to CSsearch@list.uca.edu. Review will begin on December 1, 2008 and continue until the position is filled.

UCA is an Equal Opportunity Affirmative Action Employer

### University of Cincinnati Computer Science Department Department Head Position

The University of Cincinnati's College of Engineering invites applications for the position of the Head of the Department of Computer Science (CS). The Head is expected to have a strong commitment to advancing research and education, to lead the development of innovative programs, especially joint ventures with other academic units, and to foster and strengthen external research support of the faculty from national funding agencies and academic partnerships with industry.

**Minimum Qualifications:**  
Qualifications for the Head position include a doctoral degree in computer science or a closely related field; a distinguished record in research and education; a clear vision for the future of the discipline; and established leadership and interpersonal skills. The Head is responsible for the overall program administration, including taking a leadership role in directing the growth and development of the Department. The Head is also expected to play an active role in fostering the recruitment of high quality students and faculty, and overseeing the implementation of the ongoing revitalization of the curriculum.

To apply for position (28UC1398), please see [www.jobsatuc.com](http://www.jobsatuc.com).

The University of Cincinnati is an affirmative action/equal opportunity employer. UC is a smoke-free work environment.

### University of Florida Department of Computer and Information, Science and Engineering Assistant/Associate/Full Professor

The Department of Computer and Information Science and Engineering at the University of Florida invites applications for a tenure track position at any rank in the database area beginning Fall 2009 or thereafter.

All applicants should hold a PhD in Computer Science, Computer Engineering, or a closely related discipline, and should be committed to excellence in teaching and research. Salary and support are competitive and depend on background and experience.

Applicants should submit online, a curriculum vitae and a statement of career objectives to <http://www.cise.ufl.edu/employment/faculty/>. Please make reference to position 00005352. Applicants are requested to have three letters of recommendation submitted electronically as explained on the aforementioned website. Applications will not be reviewed until all recommendation letters have been received.

To ensure full consideration, applications should be submitted by December 31, 2008 when the Search Committee will begin reviewing applications. Applications received after this date may be considered at the discretion of the Search Committee. Women and minorities are strongly encouraged to apply. Please complete our Application Data Card located at:

<http://www/hr.ufl.edu/job/datacard.htm>

Use position number 00005352. This information is returned directly to the Faculty Development Office. Submission of this information is entirely voluntary.

The University of Florida is an equal opportunity institution and women and minorities are encouraged to apply. For more information about the department and positions, please visit <http://www.cise.ufl.edu>.

### The University of Iowa Computer Science Department Assistant Professor Position, Fall 2009

The Computer Science Department seeks applications for one tenure-track assistant professor position commencing August 2009. Applications from all areas of computer science and informatics are invited. We welcome applicants doing research at the frontiers of computing in connection with other disciplines.

The Department and the College of Liberal Arts and Sciences are strongly committed to gender and ethnic diversity; the strategic plans of the University, College, and Department reflect this commitment.

The Department offers BA, BS, MCS, 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, 2009, are assured of full consideration. Applications should contain a CV and research and teaching statements. Successful applicants must demonstrate potential for research and teaching excellence in the environment of a major research university.

URL for additional information and on-line application:

<http://www.cs.uiowa.edu/hiring/>

The University of Iowa is an equal opportunity/affirmative action institution. Women and minorities are strongly encouraged to apply.

### University of Kansas Department of Electrical Engineering and Computer Science Chairperson

The Department of Electrical Engineering and Computer Science (EECS) of the University of Kansas seeks an outstanding individual for the position of chairperson. The University of Kansas has approximately 26,000 students at the main campus in Lawrence, a community consistently rated as one of the most desirable places to live. EECS is the largest department in the School of Engineering, with 35 faculty members and a research volume of approximately \$7.5 million. EECS offers undergraduate and M.S. degrees in Electrical Engineering, Computer Engineering, and Computer Science, a M.S. in Information Technology at KU's Edwards Campus (metro Kansas City), and Ph.D. degrees in Electrical Engineering and Computer Science. The department has approximately 425 undergraduate and 225 graduate students. See [www.eecs.ku.edu](http://www.eecs.ku.edu).

The successful candidate should have an earned doctorate or equivalent in electrical engineering, computer engineering, computer science, or related field and have an interest in leading faculty, developing academic and research programs, and representing the department to industry, government, administration, and alumni.

The appointment will be effective as negotiated. To apply (or nominate someone), visit our website at [www.eecs.ku.edu/recruitment](http://www.eecs.ku.edu/recruitment). Applications will be reviewed beginning November 15, 2008 and will be accepted until the position is filled. EO/AA employer

### University of Kentucky Computer Science Positions Assistant Professor Level

The University of Kentucky Computer Science Department invites applications for two tenure-track positions beginning August 15, 2009 at the assistant professor level in bio/medical informatics and in

vision/graphics. Specific information about each position and the application process are available at:

<http://www.cs.uky.edu/employment/positions.php>

Candidates must have a PhD in Computer Science.

The University of Kentucky Computer Science Doctoral Program recently ranked in the top 20% of such programs (30 out of 157) in a nationwide analysis. The rankings - produced by Academic Analytics - are based on the Faculty Scholarly Productivity Index(tm), a measure of actual faculty publication, citation, and funding rates. Among doctoral programs at public universities, UKCS was ranked 16th.

The University of Kentucky is an equal opportunity employer and encourages applications from minorities and women.

### University of Louisiana at Lafayette

The Center for Advanced Computer Studies, Graduate Fellowships  
Faculty Positions

Candidates with a strong research record and an earned doctorate in computer science or computer engineering are invited to apply for multiple tenure-track assistant/associate professor faculty positions starting fall of 2009. Target areas include Grid Computing, Large Scale Data & Knowledge Engineering, Distributed Software Systems, Entertainment Computing, and BioInformatics. Consideration will also be given to outstanding candidates in other areas. Candidates must have demonstrated potential to achieve national visibility through accomplishments in research contract and graduate students.

Faculty teach mostly at the graduate and senior undergraduate levels and offer a continuing research seminar. State and university funds are available to support research initiation efforts. Salaries are

competitive along with excellent support directed towards the attainment of our faculty's professional goals. The Center's colloquium series brings many world known professionals to our campus each year.

The Center is primarily a graduate research unit of 17 tenure-track and 5 research faculty, with programs leading to MS/PhD degrees in computer science and computer engineering. More than 250 graduate students are enrolled in these programs. The Center has been ranked 51st in a recent NSF survey based on research and development expenditures. The Center has state-of-the-art research and instructional computing facilities, consisting of several networks of SUN workstations and other high performance computing platforms. In addition, the Center has dedicated research laboratories in Intelligent Systems, Computer Architecture and Networking, Cryptography, FPGA and Reconfigurable Computing, Internet Computing, Virtual Reality, Entertainment Computing, Software Research, VLSI and SoC, Wireless Technologies, and Distributed Embedded Computing Systems. Related university programs include the CSAB (ABET) accredited undergraduate program in Computer Science, and the ABET accredited undergraduate program in Electrical and Computer Engineering. Additional information about the Center may be obtained at <http://www.cacs.louisiana.edu>.

A number of PhD fellowships, valued at up to \$24,000 per year including tuition and most fees, are available. They provide support for up to four years of study towards the PhD in computer science or computer engineering. Eligible candidates must be U.S. citizens or must have earned an MS degree from a U.S. university. Recipients also receive preference for low-cost campus housing. Applications

## Computer Science at TTI-Chicago

### Faculty Positions at All Levels

Toyota Technological Institute at Chicago (TTI-C) is a philanthropically endowed degree-granting institute for computer science located on the University of Chicago campus. The Institute is expected to soon reach a steady state of 12 traditional faculty (tenure and tenure track), and 18 limited-term faculty. Applications are being accepted in all areas, but we are particularly interested in:

- Theoretical Computer Science
- Computer Vision
- Computational Linguistics
- Programming Languages
- Machine Learning
- Speech Processing
- Scientific Computing

Positions are available at all ranks, and we have a large number of limited term positions currently available.

For all positions, we require a Ph.D. Degree or Ph.D. candidacy with the degree conferred prior to date of hire. Submit your application electronically at:

<http://ttic.uchicago.edu/facapp/>

**Toyota Technological Institute  
at Chicago is an  
Equal Opportunity Employer.**



## Professional Opportunities

may be obtained and submitted at <http://gradschool.louisiana.edu>

The University of Louisiana at Lafayette is a Carnegie Research University with high research activity, with an enrollment of over 16,000 students. Additional information may be obtained at <http://www.louisiana.edu/>. The University is located in Lafayette, the hub of Acadiana, which is characterized by its Cajun music and food and joie de vivre atmosphere. The city, with its population of over 120,000, provides many recreational and cultural opportunities. Lafayette is located approximately 120 miles west of New Orleans.

The search committee will review applications and continue until the positions are filled. Candidates should send a letter of intent, curriculum vitae, statement of research and teaching interests, and names, addresses and telephone numbers of at least four references. Additional materials, of the candidate's choice, may also be sent to:

Dr. Magdy A. Bayoumi, Director  
The Center for Advanced Computer Studies  
University of Louisiana at Lafayette  
Lafayette, LA 70504-4330  
Tel: 337.482.6147  
Fax: 337.482.5791

The University is an Affirmative Action/Equal Opportunity Employer.

### University of Massachusetts Amherst

Department of Computer Science  
*Faculty Position*

The University of Massachusetts Amherst invites applications for a tenure-track faculty position at the assistant professor level. Applicants must have a Ph.D. in Computer Science or related area and should show evidence of exceptional research promise. Candidates with an established record of strong research and a demonstrated ability to mentor diverse students may also apply for a position at the associate professor level. We particularly welcome candidates who would thrive in a highly collaborative environment in which projects often span several research groups. We have a strong record of NSF CAREER awards and other early research funding. The department is committed to the development of a diverse faculty and student body, and is very supportive of junior faculty, providing both formal and informal mentoring. We lead the NSF-funded Commonwealth Alliance for Information Technology Education (CAITE) to design and carry out comprehensive programs that address under representation in information technology (IT) education and the workforce. Strong applicants from all areas of Computer Science will be considered, especially computational biology, computer vision, theoretical computer science, and human-computer interaction.

The Department of Computer Science has 44 tenure and research track faculty and 181 Ph.D. students with broad interdisciplinary research interests. The department offers first-class research facilities. Please see <http://www.cs.umass.edu> for more information. To apply, please send a cover letter referencing search R33530 (tenure-track positions) with your vita, a research statement, a teaching statement and at least three letters of recommendation.

We also invite applications for Research Faculty (R33529) and Research Scientist, Postdoctoral Research Associate, and Research Fellow (R33528) positions in all areas of Computer Science. Applicants should have a Ph.D. in Computer Science or related area (or an M.S. plus equivalent experience), and should show evidence of exceptional research promise. These positions are grant-funded; appointments will be contingent upon continued funding. To apply, please send a cover letter with your vita, a research statement and at least three letters of recommendation.

Electronic submission of application materials is recommended. Application

materials may be submitted in pdf format to [facrec@cs.umass.edu](mailto:facrec@cs.umass.edu). Likewise, letters of recommendation may be submitted electronically to [facrec@cs.umass.edu](mailto:facrec@cs.umass.edu) either in ascii text or pdf format.

Hard copies of the application materials may be sent to: Search {fill in number from above}, c/o Chair of Faculty Recruiting, Department of Computer Science, University of Massachusetts, Amherst, MA 01003.

We will begin to review applications on November 3, 2008 and will continue until available positions are filled. Salary and rank commensurate with education and experience; comprehensive benefits package. Positions to be filled dependent upon funding. Inquiries and requests for more information can be sent to: [facrec@cs.umass.edu](mailto:facrec@cs.umass.edu)

The University of Massachusetts is an Affirmative Action/Equal Opportunity employer. Women and members of minority groups are encouraged to apply.

### The University of Michigan, Ann Arbor

Department of Electrical Engineering and Computer Science  
*Faculty Positions*

Applications and nominations are solicited for faculty positions in the Computer Science and Engineering (CSE) Division and as part of an interdisciplinary cluster hire funded by the University President to strengthen expertise in the area of Data Mining, Learning, and Discovery with Massive Datasets, for interdisciplinary faculty positions within the Computer Science and Engineering Division, the Medical School, School of Information, Astronomy, Ecology and Evolutionary Biology, and Statistics Departments.

Qualifications include an outstanding academic record, a doctorate or equivalent in computer engineering or computer science, and a strong commitment to teaching and research.

Candidates with a focus in the areas of artificial intelligence, security, programming languages and parallel computing, and cyber-physical systems are encouraged to apply. However, all computer science and engineering applications will be considered. Applications must be received by January 12, 2009.

To apply please complete the form at: <http://www.eecs.umich.edu/eecs/jobs/csejobs.html>

Electronic applications are strongly preferred, but you may alternatively send resume, teaching statement, research statement and names of three references to:

Professor Kareem A. Sakallah, Chair,  
CSE Faculty Search  
Department of Electrical Engineering and Computer Science  
University of Michigan  
2260 Hayward Street  
Ann Arbor, MI 48109-2121

The University of Michigan is a Non-Discriminatory/Affirmative Action Employer with an Active Dual-Career Assistance Program. The college is especially interested in candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community.

### University of Nebraska-Lincoln

Computer Science and Engineering

*Assistant Professor Position*

We invite applications for a tenure track faculty position at the rank of Assistant Professor. We are looking for a faculty member who can establish a strong research and teaching program that will strengthen our programs in the area of Human Computer Interfaces and/or Software Engineering. Candidates must hold an earned doctorate in Computer Science or a closely related discipline by the date of employment.

To apply, visit <http://employment.unl.edu> and complete a Faculty/Administrative application for requisition number 080713. Attach a cover letter, a CV, and statements

describing your proposed research and teaching to your application. The cover letter must include names and contact information for at least three references. Review of applications will begin on December 1, 2008, and will continue until the position has been filled. A more detailed advertisement can be viewed at:

<http://cse.unl.edu/search>

The University of Nebraska is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.

### University of North Carolina at Chapel Hill

The Renaissance Computing Institute  
*Director Position*

The University of North Carolina at Chapel Hill seeks a visionary leader for the Renaissance Computing Institute (RENCI), a collaborative venture of UNC-Chapel Hill, Duke University, and North Carolina State University. RENCi uses interdisciplinary teamwork, advanced information technologies and domain expertise to advance the frontiers of knowledge, address real-world problems, create economic opportunity, and improve the quality of life for people in North Carolina. RENCi provides an environment conducive to aiding partner groups in solving major research questions and addressing community needs.

Working with partner institutions and constituents, the Director will pursue a collaborative vision that ensures RENCi's relevance and responsiveness in a rapidly changing environment. As an advocate for innovation, the Director will speak persuasively to diverse groups about the role of advanced information technologies in research, education, and public service. He or she will partner with institutions, communities, businesses, and governments to solve problems of strategic importance. He or she will have the technical knowledge, broad experience, organizational skills and professional stature to support top-performing teams working in areas such as high-performance computing, visualization, collaborative tools, networking, software development, and data systems. The Director will develop new sources of funding and spearhead new areas of endeavor with an entrepreneurial ethos and with a commitment to interdisciplinary problem solving.

Specifically, the Director will:

- develop strategies and establish priorities necessary to advance RENCi's mission;
- coordinate RENCi activities involving faculty members, students, and staff from three major research universities as well as participants in network sites across the state;
- develop strategic relationships with leaders in research, education, government, and business to further the RENCi mission;
- work with state leaders, UNC General Administration, and others to identify and address high-priority needs of the state;
- communicate the value of RENCi's activities to audiences in North Carolina and across the nation;
- lead a dynamic staff of about 100;
- oversee an operation with almost \$20 million in annual budget;
- seek and develop new sources of funding; and
- work with university technology-transfer specialists to extend useful innovations into the marketplace.

Qualifications

The successful candidate will have, at minimum, a masters degree (equivalent degree) and experience consistent with leadership in a major research institution. A doctoral degree is preferred. In addition, he or she will have

- demonstrated outstanding intellectual leadership;
- an appreciation and understanding of a breadth of disciplines;

- a record of exemplary leadership experience in an organization engaged in research and development;
- extensive knowledge of higher education and a commitment to the values of research, education, and service;
- rich experience in employing advanced information technologies to collaborate across disciplines and geographies to produce research outcomes;
- extensive experience leading interdisciplinary projects or complex collaborations;
- an extensive record of successful management, including oversight of budgets, personnel, and other organizational matters;
- excellent communication skills; and
- excellent interpersonal skills.

While a faculty appointment is not required for this position, the successful candidate may be considered for such an appointment if this would serve the interests of the Director and the University.

For more information and application instructions, see <http://www.unc.edu/provost/searches.html>

<http://provost.unc.edu/announcements/open-positions>

All applications must be submitted electronically at this site.

Review of applications will begin on November 1, 2008 and continue until the position is filled. Anticipated start date is July 1, 2009.

Inquiries may be addressed to:

Dr. Tony Waldrop  
Vice Chancellor for Research and Economic Development and Search Committee Chair  
University of North Carolina at Chapel Hill  
312 South Building, CB 4000  
Chapel Hill, NC 27599-4000  
by calling 919-962-1319  
or by email to [twaldrop@unc.edu](mailto:twaldrop@unc.edu)

Nominations may be sent to Dr. Tony Waldrop c/o Jo Ann Gustafson, University of North Carolina at Chapel Hill, 312 South Building, CB 4000, Chapel Hill, NC 27599-4000, or by email to [joann\\_gustafson@unc.edu](mailto:joann_gustafson@unc.edu).

The University of North Carolina at Chapel Hill is an equal opportunity employer. Minorities and women are encouraged to apply.

### University of Notre Dame Department of Computer Science and Engineering

*Assistant or Associate Professor*

The Department of Computer Science and Engineering at the University of Notre Dame invites applications for one or more positions at the rank of Assistant or Associate Professor. One priority area for this search will be bioinformatics. However, exceptional candidates in all areas of specialization will be considered.

The Department offers a PhD degree as well as accredited undergraduate programs in Computer Science and Computer Engineering. There are approximately seventy-five students in the PhD program and over one hundred majors in the undergraduate programs. Our faculty are engaged in cutting-edge and highly visible research in algorithms, bioinformatics and computational biology, computer architecture and nanotechnology, computer security, data mining / machine learning, computer vision / image analysis, and networks / systems. The Gates Foundation recently awarded a \$20 million grant to Biology and CSE faculty in the bioinformatics area, and the Semiconductor Research Corporation (SRC) together with the state of Indiana and the city of South Bend recently announced the Midwest Institute for Nanoelectronics Discovery, a research consortium led by Notre Dame, has received \$25 million in new funding.

(continued)

## Professional Opportunities

The University of Notre Dame is a private, Catholic university with a doctoral research university (extensive) Carnegie classification, and it is consistently ranked in USN&WR as a top-twenty national university. The South Bend area has a vibrant and diverse economy with affordable housing and excellent school systems, and is within easy driving distance of Chicago and Lake Michigan.

Screening of applications will begin immediately. Applicants should send (PDF format preferred) a CV, statement of teaching and research interests, and contact information for three professional references to:

facultysearch@cse.nd.edu

The University of Notre Dame is an Equal Opportunity, Affirmative Action Employer.

### University of Oregon Department of Computer and Information Science Faculty Position

The CIS department seeks applicants for one or more full-time tenure-track faculty positions beginning fall, 2009. We anticipate appointments at the rank of Assistant Professor; however, in the case of exceptionally qualified candidates appointments at any rank may be considered. The University of Oregon is an AAU research university located in Eugene, two hours south of Portland, and within one hour's drive of both the Pacific Ocean and the snow-capped Cascade Mountains.

The CIS department is housed within the College of Arts and Sciences and part of the recently dedicated Lorry Lokey Science Complex. The College appreciates the increasing role that computer science plays in other disciplines and supports our goals of strengthening our ties with the other sciences. Applicants interested in interdisciplinary research are encouraged to apply. We offer a stimulating and friendly environment for collaborative research both within the department and with other departments on campus. The CIS department is associated with the Cognitive and Decision Sciences Institute, the Computational Science Institute, the Neuro-Informatics Center, and the Computational Intelligence Research Laboratory.

This department recognizes that computer science is undergoing rapid change as an academic discipline, and accordingly seeks to hire faculty in emerging areas of computer science as well as more established areas including distributed computing, data mining, networking, computational science (visualization, high performance computing), and HCI (usability, accessibility, interfaces).

The CIS department offers B.S., M.S. and Ph.D. degrees. More information about the department, its programs and faculty can be found at <http://www.cs.uoregon.edu>, or by contacting the search committee at [faculty.search@cs.uoregon.edu](mailto:faculty.search@cs.uoregon.edu).

Applicants must have a Ph.D. in computer science or a closely related field, a demonstrated record of excellence in research and a strong commitment to teaching. The successful candidates are expected to conduct vigorous research programs, and to teach at both the undergraduate and graduate levels. Applicants should send their curriculum vitae, names of at least four references, a statement of research and teaching interests, and selected publications to: Faculty Search Committee Department of Computer and Information Science University of Oregon Eugene, OR 97403-1202 email: [faculty.search@cs.uoregon.edu](mailto:faculty.search@cs.uoregon.edu) Alternatively (and preferably) applications can be made on-line at: <http://www.cs.uoregon.edu/Employment/application.cgi>.

Review of applications will begin January 5, 2009, and continue until the position is filled.

The University of Oregon is an equal opportunity/affirmative action institution committed to cultural diversity and compliant with the Americans with Disabilities Act. We are committed to creating a more inclusive and diverse institution and seek candidates with demonstrated potential to contribute positively to its diverse community.

### University of Pennsylvania Department of Computer and Information Science Faculty Positions

The University of Pennsylvania invites applicants for tenure-track appointments in both experimental and theoretical computer science to start July 1, 2009. Tenured appointments will also be considered. Faculty duties include teaching undergraduate and graduate students and conducting high-quality research.

The Department of Computer and Information Science has undergone a major expansion, including new faculty positions and a new building, Levine Hall, which was opened in April 2003. Over the last few years, we have successfully recruited faculty in artificial intelligence, architecture, databases, machine vision, programming languages, security and graphics. We are now especially interested in candidates in architecture and systems, although outstanding candidates in other areas might also be considered. Successful applicants will find Penn to be a stimulating environment conducive to professional growth.

The University of Pennsylvania is an Ivy League University located near the center of Philadelphia, the 5th largest city in the US. Within walking distance of each other are its Schools of Arts and Sciences, Engineering, Medicine, the Wharton School, the Annenberg School of Communication, Nursing, Law, and Fine Arts. The University campus and the Philadelphia area support a rich diversity of scientific, educational, and cultural opportunities, major technology-driven industries such as pharmaceuticals, finance, and aerospace, as well as attractive urban and suburban residential neighborhoods. Princeton and New York City are within commuting distance.

To apply, please complete the form located on the Faculty Recruitment Web Site at:

<http://www.cis.upenn.edu/departamental/facultyRecruiting.shtml>

Electronic applications are strongly preferred, but hard-copy applications (including the names of at least four references) may alternatively be sent to:

Chair, Faculty Search Committee  
Department of Computer and  
Information Science  
School of Engineering and Applied  
Science  
University of Pennsylvania  
Philadelphia, PA 19104-6389

Applications should be received by January 15, 2009 to be assured full consideration. Applications will be accepted until positions are filled.

Questions can be addressed to:  
[faculty-search@central.cis.upenn.edu](mailto:faculty-search@central.cis.upenn.edu)

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment.

The Penn CIS Faculty is sensitive to "two-body problems" and would be pleased to assist with opportunities in the Philadelphia region.

### University of Saskatchewan Department of Computer Science Tenure-Track Position

Applications are invited for a tenure-track position at the Assistant Professor level. Applicants should have a Ph.D. in Computer Science or equivalent. The appointment will commence July 1, 2009.

We are seeking an outstanding entry-level faculty candidate in the area of software engineering, including human computer interaction, programming languages and database systems, who, can contribute to our multi-disciplinary initiatives in health, synchrotron science, high performance computing, and digital media.

The friendly, supportive and collegial environment, combined with our excellent research reputation, makes the Department an ideal place to launch and develop a successful academic career. Our Department offers graduate programs at the M.Sc. and Ph.D. levels and has a vibrant undergraduate program.

For further information about the Department, see:

<http://www.cs.usask.ca/content/employment.jsp?user=facultystaff>

Applications will be accepted until January 31, 2009.

### University of South Alabama School of Computer and Information Sciences Assistant or Associate Professor

The School of Computer and Information Sciences at the University of South Alabama offers undergraduate programs in Computer Science, Information Systems, and Information Technology and masters' programs in Computer Science and Information Systems. Our undergraduate programs are ABET accredited and our graduate program has a track record of funded research with thesis achieving peer reviewed publication.

The School of Computer and Information Sciences invites applications for a full-time Assistant or Associate Professor tenure-track faculty position for Fall 2009. Applicants must have a Ph.D. in Computer Science, an established research record in the area of robotics, embedded real-time systems, sensory systems, or information security and demonstrate a strong record of excellence in teaching with external funding potential. The successful candidate will teach undergraduate and graduate courses, direct undergraduate and graduate research, and serve on thesis committees.

Prospective candidates should send a letter of application, curriculum vitae, and the names, addresses and phone numbers of three references to:

Chair, Faculty Search Committee  
School of CIS, FCW 20  
University of South Alabama  
Mobile, AL 36688

Application review begins on September 16, 2008 and will continue until the position is filled. The University of South Alabama is an Equal Opportunity/Equal Access Employer

### University of South Carolina Computer Science and Engineering Department Chair

The Department of Computer Science and Engineering in the College of Engineering and Computing, University of South Carolina, seeks nominations and applications for the position of Department Chair. The Department offers bachelor's degrees in computer engineering, computer information systems, and computer science, M.S./M.E. and Ph.D. degrees in Computer Science and Engineering, a Master of Software Engineering, and a Certificate of Graduate Studies in Information Assurance and Security. The Department has 22 full-time faculty, an undergraduate enrollment of 313, a graduate enrollment of 88 students, and over \$1.5 million in research expenditures. New leadership in the College has made

growth of the Department a high priority.

Qualified applicants are expected to have outstanding leadership and administrative skills, a strong record of research performance, dedication to education, and credentials (including a Ph.D. in computer science, computer engineering, or related field) commensurate with appointment as a full professor with tenure in the Department. Nomination letters should include statements regarding the nominee's relevant credentials. Applications should include a current resume, a statement of professional interests and vision, and the names, affiliations, and contact information (including email address and telephone number) of at least three references. Nominations and applications will be accepted until the position is filled and should be sent to:

Computer Science and Engineering  
Chair Search Committee  
Office of the Dean  
College of Engineering & Computing  
University of South Carolina  
Swearingen Engineering Center  
301 Main Street  
Columbia, SC 29208

Applications may be sent by email to [CSE-search@enr.sc.edu](mailto:CSE-search@enr.sc.edu).

The University of South Carolina is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

### University of South Carolina Computer Science and Engineering Faculty Position

Applications are invited for a tenure-track position with a research emphasis in signal processing and data mining as applied to biological and ecological data. This is a tenure-track appointment in the Department of Computer Science and Engineering with a joint appointment in the School of the Environment. Candidates should have a doctorate in computer science, computer engineering, or a related discipline by fall 2009. Candidates for assistant professor positions are expected to have strong research potential as well as an interest in teaching at both the undergraduate and graduate level. For those embarking on their professional careers, department support will include low teaching loads, competitive salary and generous start-up funds. Candidates for associate or full professor positions must possess an exceptional record of high-quality funded research, teaching, and scholarship. This position is part of a cluster of interdisciplinary faculty hires in the area of forecasting ecological responses to climate change in coastal regions. Candidates will be expected to form strong research collaborations with other hires in the cluster in geography, biology, and environmental science while establishing a research record suitable for a position in Computer Science and Engineering.

The Department of Computer Science and Engineering is in the College of Engineering and Computing and offers bachelor's, master's, and doctoral degrees. We have had twelve hires since 2000 among the current faculty of 21, and our recent hires include seven CAREER award recipients. The University of South Carolina is located in Columbia, South Carolina's capital and technology center, and is the comprehensive graduate institution in the state, with an enrollment of more than 25,000 students.

For more information, see <http://www.cse.sc.edu/>.

Applicants should apply to the Chair of the Search Committee, Department of Computer Science and Engineering, University of South Carolina, Columbia, SC 29208 or to [clustersearch@cse.sc.edu](mailto:clustersearch@cse.sc.edu) and clearly indicate the cluster search in their cover letter. A curriculum vita, research and teaching statement, and the names and addresses of three references should be included. Applications will be accepted until the position is filled.

## Professional Opportunities

The University of South Carolina does not discriminate in educational or employment opportunities or decisions for qualified persons on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation or veteran status.

### University of South Florida Computer Science and Engineering Assistant/Associate Professor Positions

The Department invites applications for two tenure track positions. One position is at the Assistant Professor level in Intelligent Robotics. The successful candidate will be expected to collaborate with the rehabilitation robotics group. The other position is at the Assistant or Associate Professor level in the Bioinformatics area in conjunction with the University's Diabetes initiative in collaboration with the Department of Pediatrics (<http://usfpeds.hsc.usf.edu/divisions/biopec/index.htm>). The College and Department strongly encourage cross-disciplinary research.

The University of South Florida is among the nation's top 63 public research universities, is one of 39 community engaged public universities as designated by the Carnegie Foundation for the Advancement of Teaching, and placed among the nation's top 20 "up and coming universities" in the 2009 U.S. News & World Report annual college rankings. USF is one of Florida's top three research universities. The University was awarded \$366 million in research contracts and grants last year. The university offers 219 degree programs at the undergraduate, graduate, specialist and doctoral levels, including the MD degree. The Department of Computer Science and Engineering (<http://www.cse.usf.edu>) is part of the College of Engineering, has 22 faculty members, and offers B.S., M.S., and Ph.D. degrees. The department has an active graduate program serving over 65 doctoral students with 12 PhD graduates during 2007/2008 academic year. The research program is well supported by federal and state agencies including DoD, DoE, DoT, NIH, NSF, as well as industry. Partnerships for inter-disciplinary research exist with the other research centers within the College and University.

The University has a \$1.8 billion annual budget, an annual economic impact of \$3.2 billion, and serves more than 45,000 students on campuses in Tampa, St. Petersburg, Sarasota-Manatee and Lakeland. USF is a member of the Big East Athletic Conference.

For full consideration applications must be received by November 21, 2008, though they may be considered until the positions are filled. The application package should include a cover letter, curriculum vitae, brief statement outlining research and teaching goals, and the names and contact information of at least three references. These application materials are to be submitted online at:

<http://www.cse.usf.edu/faculty-search/>

For questions please send email to [csesearch@cse.usf.edu](mailto:csesearch@cse.usf.edu).

The University of South Florida is an Affirmative Action/Equal Opportunity employer. Women and minorities are strongly encouraged to apply

### University of Tennessee, Knoxville Electrical Engineering and Computer Science Department Faculty Positions

The Min Kao Department of Electrical Engineering and Computer Science (EECS) at The University of Tennessee, Knoxville seeks applications for tenure-track faculty positions in all areas of computer engineering, including but not limited to dependable and secure systems, wireless and sensor networks, embedded systems, and VLSI.

The department is starting a new growth phase thanks to gifts from alumnus Dr. Min Kao and other donors plus additional state funding totaling over

\$47.5 M for a new building and endowments for the department. Information about the EECS Department can be found at:

<http://www.eecs.utk.edu/>

Candidates should have an earned Ph.D. in Electrical Engineering, Computer Engineering, Computer Science, or equivalent. Interested candidates should apply through the departmental web site at:

<http://www.eecs.utk.edu/jobs/faculty> and submit a curriculum vitae, research and teaching statement, and provide contact information for three references. Consideration of applications will begin on December 10, 2008, and the position will remain open until filled.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, age, physical or mental disability, or covered veteran status.

### University of Texas at Arlington Computer Science and Engineering Department

#### Tenure Track Faculty Position

The University of Texas at Arlington (UT Arlington), Computer Science and Engineering (CSE) Department (<http://www.cse.uta.edu>) has one tenure track faculty position to fill for the year 2008-2009. We invite applications in all areas of computer science. CSE is committed to excellence in research and teaching with a large number of its faculty receiving NSF, NIH and other types of funding. The Department is expected to move to a new \$116 million building in 2011.

Applicants must have an earned doctorate in computer science or computer engineering and have demonstrated a commitment to quality teaching and scholarly research. Applicants are expected to have shown an excellent record of research initiative, be committed to teaching both undergraduate and graduate courses, have high quality publications and a demonstrated ability to collaborate in teams. Interested persons should submit a letter of application, a resume, best papers, and reference letters online at:

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

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

This is a security sensitive position, and a criminal background check will be conducted on finalists. UT Arlington is an Equal Opportunity/Affirmative Action Employer.

### University of Texas at Austin Department of Computer Sciences Tenure-Track/Tenured Faculty Positions

The Department of Computer Sciences of the University of Texas at Austin invites applications for tenure-track positions at all levels. Excellent candidates in all areas will be seriously considered, especially in Computer Architecture. All tenured and tenure-track positions require a Ph.D. or equivalent degree in computer science or a related area at the time of employment.

Successful candidates are expected to pursue an active research program, to teach both graduate and undergraduate courses, and to supervise graduate students. The department is ranked among the top ten computer science departments in the country. It has 46 tenured and tenure-track faculty members across all areas of computer science. Many of these faculty participate in interdisciplinary programs and centers in the University, including those in Computational and Applied Mathematics, Computational Biology, and Neuroscience.

Austin, the capital of Texas, is located on the Colorado River, at the edge of the Texas Hill Country, and is famous for its live music and outdoor recreation.

(continued)



## INDIANA UNIVERSITY

SCHOOL OF INFORMATICS

IUPUI

### Executive Associate Dean

The Indiana University School of Informatics seeks an outstanding leader with vision and experience as Executive Associate Dean (EAD) to lead and administer the School on the Indianapolis campus. The position reports to and works closely with the system-wide Dean to develop and manage faculty, programs, and initiatives within the framework of the School's overall strategic plan.

Indiana University-Purdue University Indianapolis (IUPUI) is an outstanding research university - a 21<sup>st</sup> century model for urban higher education. IUPUI offers more than 200 academic plans and educates 30,000 students a year. Located in downtown Indianapolis, the state's capital and largest city, IUPUI offers many opportunities for collaboration with local business, scientific, community, and political leaders.

Core responsibilities of the position of Executive Associate Dean include faculty leadership and growth of the curricular and research programs offered on the IUPUI campus. The degree programs include (1) the Informatics doctoral program (2) masters programs in Bioinformatics, Health Informatics, Human-Computer Interaction, and Media Arts and Science and (3) undergraduate programs in Informatics, Media Arts and Science, and Health Information Administration. The School hosts 620 undergraduate students, 126 graduate students, and 40 doctoral students. A complete job description may be found at [http://informatics.iupui.edu/executive\\_search/](http://informatics.iupui.edu/executive_search/).

Requirements include significant successful administrative experience; a doctoral degree in an Informatics related discipline; and an academic record that supports the granting of tenure in Informatics. Applications received by **November 15, 2008** will receive full consideration, but the search will remain open until the position is filled. All communications will be treated confidentially. Materials should be submitted to:

**H. Öner Yurtseven**

**Dean and Professor of Electrical & Computer Engineering  
Chair, Associate Dean Search Committee  
c/o Vicki Daugherty at [vdaugher@iupui.edu](mailto:vdaugher@iupui.edu)  
Indiana University School of Informatics at IUPUI  
535 W. Michigan Street, Suite 475, Indianapolis, IN  
46202-3103**

Questions regarding the position can be directed to the Search Committee Chair (317-274-0802; e-mail: [hoyurt7@iupui.edu](mailto:hoyurt7@iupui.edu)).

**Indiana University is an EEOAA employer, M/F/D**

## Professional Opportunities

Austin is also a center for high-technology industry, including companies such as IBM, Dell, Freescale Semiconductor, Advanced Micro Devices, National Instruments, AT&T, Intel and Samsung.

For more information please see the department web page:

<http://www.cs.utexas.edu/>

The department prefers to receive applications online, beginning November 15, 2008. To submit yours, please visit:

<http://services.cs.utexas.edu/recruit/faculty/>

If you do not have internet access, please send a curriculum vitae, home page URL, description of research interests, and selected publications, and ask three referees to send letters of reference directly to:

Faculty Search Committee,  
Department of Computer Sciences,  
The University of Texas at Austin,  
1 University Station C0500,  
Austin, Texas 78712-0233, USA

Inquiries about your application may be directed to [faculty-search@cs.utexas.edu](mailto:faculty-search@cs.utexas.edu). For full consideration of your application, please apply by January 15, 2009.

Women and minority candidates are especially encouraged to apply. The University of Texas is an Equal Opportunity Employer.

### The University of Texas at El Paso

Department of Computer Science  
Department Chair

The University of Texas at El Paso (UTEP) seeks a dynamic, visionary, and personable Chair of the Department of Computer Science. In addition to CS degrees at the B.S., M.S., and Ph.D. levels, the Department hosts the Masters of Information Technology (MIT) program and is an integral part of the Computational Science M.S. and Ph.D. programs. UTEP has the second-highest federal research funding in the University of Texas System, and in 2007 CS led the College of Engineering ([engineering.utep.edu](http://engineering.utep.edu)) in research at UTEP, with over \$7.3M in research funding. The successful candidate will have a proven record of leadership in professional, research, or service environments; a strong research record; administrative experience; and an understanding and appreciation of curricular development including assessment, educational objectives, and the impacts of the maturation of the field.

For more information and application procedures, see: <http://cs.utep.edu/hiring.html> or our ad at: [www.utep.edu/employment](http://www.utep.edu/employment)

The University of Texas at El Paso is an Equal Opportunity/Affirmative Action employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, veteran status, or sexual orientation in employment or the provision of services.

### University of Utah School of Computing

Faculty Positions in Digital Media

The University of Utah seeks multiple hires in the field of Digital Media. One position will be in the Film Studies Division in the College of Fine Arts and one position will be in the School of Computing in the College of Engineering. These positions are part of the Utah Science, Technology and Research Initiative (USTAR) which was funded by the Utah State Legislature to attract focused teams of outstanding researchers who have the potential of helping build major research programs and creating new technology that can ultimately lead to commercial products and/or new industries for Utah. For more information about USTAR, visit:

<http://ustar.utah.gov/>

The School of Computing seeks an outstanding faculty member in digital media (animation, computer games, computational photography, or other related area) at the rank of associate or full professor. Since the 1960s when pioneering graphics research became a core focus at

Utah, there has been a vibrant congenial community supporting this activity. Being one of the oldest and most successful graphics programs in the nation, Utah and its alums have played a prominent role in the birth and explosive development of computer graphics. Our program includes large, multi-investigator efforts addressing large-scale problems of significant impact, as well as a number of individual investigator research activities. Currently, computer graphics research has strong programs in modeling/manufacturing, realistic rendering, perception, and scientific visualization. We wish to build upon these successful areas with a dynamic researcher seeking to develop a strong synergistic program in digital media with strong collaboration with faculty in the College of Fine Arts. The School of Computing offers a specialized M.S. and Ph.D. Computing Degree graduate track in Computer Graphics and Visualization and has an Entertainment Arts and Engineering program at the undergraduate level that spans art and computer science. Applicants should have earned a Ph.D. in Computer Science or a closely related field.

The Division of Film Studies seeks an outstanding faculty member working in media production and/or a digital medium associated with but not limited to the disciplines currently represented within our curriculum. The Film Studies Division of the College of Fine Arts teaches film history & criticism, production, animation, and game design, including a collaborative program with the School of Computing, Entertainment Arts and Engineering. The Division seeks a candidate with an interest in collaboration, creative research, and possible applications of that research in the entertainment industry. The candidate must hold a terminal degree or equivalent professional credentials and should have a strong body of work within their area(s) of interest. The successful candidate will pursue an active research agenda with some teaching responsibilities possibly including the mentorship and supervision of graduate students. The successful candidate will help to foster enthusiasm surrounding research in an environment that presupposes collaboration across all disciplines within the college and the university. The Division offers an M.F.A. in Production and a B.A. in Film Studies.

The University of Utah is located in Salt Lake City, the hub of a large metropolitan area with excellent cultural offerings and unsurpassed opportunities for outdoor recreation only a few minutes' drive away. Additional information about the School of Computing can be found at [www.cs.utah.edu](http://www.cs.utah.edu). Additional information about the Film Studies Division can be found at [www.finearts.utah.edu](http://www.finearts.utah.edu) and at [www.film.utah.edu](http://www.film.utah.edu).

Please send curriculum vitae, a research goals statement, a teaching goals statement, and names and addresses of at least four references via email in PDF format to:

USTAR Faculty Recruiting Committee  
c/o Mr. Chris Coleman  
[coleman@cs.utah.edu](mailto:coleman@cs.utah.edu)

The University of Utah is an Equal Opportunity, Affirmative Action Employer and encourages nominations and applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

The University of Utah values candidates who have experience working in settings with students from diverse backgrounds, and possess a strong commitment to improving access to higher education for historically underrepresented students.

### University of Waterloo

David R. Cheriton School of  
Computer Science

Cheriton Chairs in Software Systems

Applications are invited for one or two David R. Cheriton Chairs in Software Systems. These are senior positions and include substantial research support

and teaching reduction. Candidates with outstanding research records in software systems (very broadly defined) are encouraged to apply. Successful applicants who join the University of Waterloo are expected to be leaders in research, have an active graduate student program and contribute to the overall development of the School. A Ph.D. in Computer Science, or equivalent, is required, with evidence of excellence in teaching and research. Rank and salary will be commensurate with experience, and appointments are expected to commence during the 2009 calendar year. The Chairs are tenured positions.

With over 70 faculty members, the University of Waterloo's David R. Cheriton School of Computer Science is the largest in Canada. It enjoys an excellent reputation in pure and applied research and houses a diverse research program of international stature. Because of its recognized capabilities, the School attracts exceptionally well-qualified students at both undergraduate and graduate levels. In addition, the University has an enlightened intellectual property policy which vests rights in the inventor: this policy has encouraged the creation of many spin-off companies including iAnywhere Solutions Inc., Maplesoft Inc., Open Text Corp and Research in Motion. Please see our website for more information: <http://www.cs.uwaterloo.ca>.

Applications should be sent by electronic mail to [cs-recruiting@cs.uwaterloo.ca](mailto:cs-recruiting@cs.uwaterloo.ca), or by post to:

Chair, Advisory Committee on  
Appointments  
David R. Cheriton School of Computer  
Science  
200 University Avenue West  
University of Waterloo  
Waterloo, Ontario, Canada N2L 3G1

An application should include a curriculum vitae, statements on teaching and research, and the names and contact information for at least three referees. Applicants should ask their referees to forward letters of reference to the address above. Applications will be considered as soon as possible after they are complete, and as long as positions are available.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

### University of Waterloo

David R. Cheriton School of  
Computer Science

Faculty Positions in Information Systems

The University of Waterloo invites applications for one or two tenure-track or tenured faculty positions in the David R. Cheriton School of Computer Science, in the areas of information systems. Candidates at all levels of experience are encouraged to apply. Preference will be given to those who focus on health informatics as an application area. Successful applicants who join the University of Waterloo are expected to develop and maintain a productive program of research, contribute to a newly-created Master's program in health informatics, attract and develop highly qualified graduate students, provide a stimulating learning environment for undergraduate and graduate students, and contribute to the overall development of the School. A Ph.D. in Computer Science, or equivalent, is required, with evidence of excellence in teaching and research. Rank and salary will be commensurate with experience, and appointments are expected to commence during the 2009 calendar year.

With over 70 faculty members, the University of Waterloo's David R. Cheriton School of Computer Science is the largest in Canada. It enjoys an excellent reputation in pure and applied research and houses a diverse research program of international stature. Because of its

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Applications should be sent by electronic mail to:

[cs-recruiting@cs.uwaterloo.ca](mailto:cs-recruiting@cs.uwaterloo.ca)

or by post to:

Chair, Advisory Committee on  
Appointments  
David R. Cheriton School of Computer  
Science  
200 University Avenue West  
University of Waterloo  
Waterloo, Ontario, Canada N2L 3G1

An application should include a curriculum vitae, statements on teaching and research, and the names and contact information for at least three referees. Applicants should ask their referees to forward letters of reference to the address above. Applications will be considered as soon as possible after they are complete, and as long as positions are available.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

### University of Waterloo

Department of Management Sciences  
Information Systems Faculty Positions

The Department of Management Sciences at the University of Waterloo invites applications for full-time, professorial appointments in Information Systems at any level: assistant, associate or full, to begin May 2009 or later. Applicants should hold a Ph.D. or be near completion of their doctorate, and have demonstrated research and teaching potential in industrial/systems engineering, computer science or a related field.

Individuals in any area of Information Systems are encouraged to apply, but we are particularly seeking those with interests in human computer interaction, data mining, telecommunications management or topics at the interface of operations research and computer science. Industrial experience is highly desirable. An undergraduate degree in engineering or eligibility for registration as a professional engineer is required.

The Department offers a co-op undergraduate degree in Management Engineering (launched in 2007), as well as MMSc, MASc and PhD programs. The successful candidate will join a dynamic and growing interdisciplinary department that has active research and teaching activities in Operations Research, Management of Technology and Information Systems.

Applicants should submit a cover letter along with a curriculum vitae detailing educational background, research and work experience, and copies of up to four selected publications. Letters of recommendation are not required on application but will be requested if a candidate is short listed. Applications are to be submitted electronically at: <https://www.mansci.uwaterloo.ca/OFAS/>

Consideration of candidates will begin August 1, 2008 and will continue until the positions are filled.

For further information, please contact the chair of Management Sciences:

Dr. Elizabeth Jewkes  
Department of Management Sciences  
University of Waterloo  
Waterloo, Ontario, Canada, N2L 3G1  
[emjewkes@uwaterloo.ca](mailto:emjewkes@uwaterloo.ca)

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

## Professional Opportunities

The University encourages applications from all qualified individuals including women, members of visible minorities, native peoples, and persons with disabilities.

### University of Waterloo

David R. Cheriton School of Computer Science

#### Faculty Position in Software Engineering

The University of Waterloo invites applications for a tenure-track or tenured faculty position in the David R. Cheriton School of Computer Science, in the area of software engineering. Candidates at all levels of experience are encouraged to apply. Successful applicants who join the University of Waterloo are expected to develop and maintain a productive program of research, attract and develop highly qualified graduate students, provide a stimulating learning environment for undergraduate and graduate students, and contribute to the overall development of the School. A Ph.D. in Computer Science, or equivalent, is required, with evidence of excellence in teaching and research. Rank and salary will be commensurate with experience, and appointments are expected to commence during the 2009 calendar year.

With over 70 faculty members, the University of Waterloo's David R. Cheriton School of Computer Science is the largest in Canada. It enjoys an excellent reputation in pure and applied research and

houses a diverse research program of international stature. Because of its recognized capabilities, the School attracts exceptionally well-qualified students at both undergraduate and graduate levels. In addition, the University has an enlightened intellectual property policy which vests rights in the inventor: this policy has encouraged the creation of many spin-off companies including iAnywhere Solutions Inc., Maplesoft Inc., Open Text Corp and Research in Motion. Please see our website for more information: <http://www.cs.uwaterloo.ca>.

Applications should be sent by electronic mail to [cs-recruiting@cs.uwaterloo.ca](mailto:cs-recruiting@cs.uwaterloo.ca), or by post to:

Chair, Advisory Committee on Appointments  
David R. Cheriton School of Computer Science  
200 University Avenue West  
University of Waterloo  
Waterloo, Ontario, Canada N2L 3G1

An application should include a curriculum vitae, statements on teaching and research, and the names and contact information for at least three referees. Applicants should ask their referees to forward letters of reference to the address above. Applications will be considered as soon as possible after they are complete, and as long as positions are available.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

### University of Waterloo

David R. Cheriton School of Computer Science

#### Faculty Position

The University of Waterloo invites applications for a tenure-track or tenured faculty positions in the David R. Cheriton School of Computer Science. The area of information retrieval (broadly defined) will be given high priority; other areas will be considered if the School is unable to recruit a very strong candidate in information retrieval. Candidates at all levels of experience are encouraged to apply. Successful applicants who join the University of Waterloo are expected to develop and maintain a productive program of research, attract and develop highly qualified graduate students, provide a stimulating learning environment for

undergraduate and graduate students, and contribute to the overall development of the School. A Ph.D. in Computer Science, or equivalent, is required, with evidence of excellence in teaching and research. Rank and salary will be commensurate with experience, and appointments are expected to commence during the 2009 calendar year.

With over 70 faculty members, the University of Waterloo's David R. Cheriton School of Computer Science is the largest in Canada. It enjoys an excellent reputation in pure and applied research and houses a diverse research program of international stature. Because of its recognized capabilities, the School attracts exceptionally well-qualified students at both undergraduate and graduate levels. In addition, the University has an enlightened intellectual property policy which vests rights in the inventor: this policy has encouraged the creation of many spin-off companies including iAnywhere Solutions Inc., Maplesoft Inc., Open Text Corp and Research in Motion. Please see our website for more information: <http://www.cs.uwaterloo.ca>.

Applications should be sent by electronic mail to [cs-recruiting@cs.uwaterloo.ca](mailto:cs-recruiting@cs.uwaterloo.ca), or by post to

Chair, Advisory Committee on Appointments  
David R. Cheriton School of Computer Science  
200 University Avenue West  
University of Waterloo  
Waterloo, Ontario, Canada N2L 3G1

An application should include a curriculum vitae, statements on teaching and research, and the names and contact information for at least three referees. Applicants should ask their referees to forward letters of reference to the address above. Applications will be considered as soon as possible after they are complete, and as long as positions are available.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

### University of Wisconsin-Milwaukee

Medical Informatics, CEAS  
Research Associate or Software Engineer

We need natural language processing and machine-learning experts for biomedical NLP research. Salary and benefits are competitive. 1-4 years of support. Send CV, two references, and two best publications to:  
[hongyu@uwm.edu](mailto:hongyu@uwm.edu)

### Vassar College

Department of Computer Science  
Two Year Visiting Assistant Professor,  
Fall, 2009

Vassar College seeks applications for a two-year, full-time Visiting Assistant Professor position starting Fall, 2009. A commitment to excellence in undergraduate teaching and research is expected. The Ph.D. in computer science is required. Applicants with background in any area of Computer Science will be considered, but special consideration will be given to applicants with interest and expertise in Computer Organization, Computer Architecture, Operating Systems, and/or the "TeachScheme, ReachJava" curriculum. All candidates must be able to cover courses in the core areas of Computer Science.

Vassar College is an equal opportunity/affirmative action employer and is actively committed to diversity within its community. Applications from members of historically under-represented groups are especially encouraged to apply.

Vassar College has been successfully building a strong undergraduate program in Computer Science. Introductory courses are taught using Scheme and Java. The

department has Linux laboratories for introductory and advanced instruction. Faculty are provided with Unix workstations and personal computers. For more information see:

<http://www.cs.vassar.edu>  
Review of applications will begin January 1, 2009 and continue until the position is filled. Send vita and three letters of reference to:

Nancy Ide, Chair  
Department of Computer Science  
124 Raymond Avenue, Box 732  
Vassar College  
Poughkeepsie, New York 12604-0732  
E-mail: [csdept@cs.vassar.edu](mailto:csdept@cs.vassar.edu)

### Washington University in Saint Louis

Department of Computer Science and Engineering

#### Multiple Tenure-Track/Tenured Faculty Positions

The Department of Computer Science and Engineering (CSE) and the School of Medicine (WUSM) are jointly searching for multiple tenure-track faculty members with outstanding records of computing research and a current or planned research program bearing on specific scientific and/or biomedical problems. Appointments may be made wholly within CSE or jointly with the Departments of Medicine or Pathology & Immunology.

A key initiative in the CSE department's strategic plan is Integrating Computing and Science. As part of that initiative, we expect to make synergistic hires with a combined research portfolio spanning the range from fundamental computer science/engineering to applied research focused on science or medicine. Specific areas of interest include, but are not limited to:

- Analysis of complex genetic, genomic, proteomic, and metabolomic datasets

- Theory/Algorithms with the potential for biomedical applications
- Image analysis or visualization with the potential for biomedical applications
- Databases, medical informatics, clinical or public-health informatics
- Computer engineering with applications to medicine or the natural sciences
- Other areas of computational biology or computational science

These positions will continue a successful, ongoing strategy of collaborative research between CSE and the School of Medicine, which is consistently ranked among the top 3 medical schools in the United States. CSE currently consists of 24 tenured and tenure-track faculty members, 71 Ph.D. students, and a stellar group of undergraduates with a history of significant research contributions. The Department seeks to build on and complement its strengths in biological sequence analysis, biomedical image analysis, and biomedical applications of novel computing architectures.

Washington University is a private university with roughly 6,000 full-time undergraduates and 6,000 graduate students. It has one of the most attractive university campuses anywhere, and is located in a lovely residential neighborhood, adjacent to one of the nation's largest urban parks, in the heart of a vibrant metropolitan area. St. Louis is a wonderful place to live, providing access to a wealth of cultural and entertainment opportunities without the everyday hassles of the largest cities.

We anticipate appointments at the rank of Assistant Professor; however, in the case of exceptionally qualified candidates appointments at any rank may be considered. Qualified applicants

(continued)



## The University of Montana

### Tenure-track faculty position, Computer Science

**Position Description:** The Department of Computer Science seeks applications for a tenure-track assistant professor faculty position to start August 2009.

**Duties:** The Department and the University require a commitment to a balanced mix of undergraduate and graduate teaching, research productivity, and service in the discipline, Department, and University. The Department and the University also strongly encourage collaborative teaching and research efforts. Applicants in any area of computer science are encouraged to apply. We are also interested in candidates who can collaborate with researchers in a science or applied science area. The successful candidate will have the ability to effectively teach a variety of courses within the Computer Science Department, work independently and collaboratively on research with faculty and students, and contribute to his/her specialty, the Department, and the University.

The University of Montana is one of the nation's outstanding public universities, committed to liberal arts education, research, and strong professional programs. UM is located in Missoula, a cosmopolitan Rocky Mountain community, often singled out in national publications for its quality of life. Located in the beautiful Missoula Valley, the University of Montana is surrounded by scenic wonder, a multitude of outdoor activities for all seasons, and a city that embraces and supports the University. Current faculty in the Department have strong research programs and provide excellent instruction to a growing number of students from Montana and the Pacific Northwest. Strongly collaborative and application focused, the Department continues to grow and gain both national and international attention for both research and education. The successful applicants will be supported, encouraged, and expected to contribute to both research and teaching efforts.

**Qualifications:** A PhD in Computer Science or a closely related field is required as is evidence of teaching excellence and research potential. All areas of specialization will be considered within Computer Science.

**Submission Deadline:** Applications will be reviewed starting on November 1, 2008 with interviews to be done in early December. Applications will be accepted until the position is filled.

**Application Procedure:** Applicants should submit a resume, graduate transcripts, a letter addressing both research and teaching interests, and three letters of recommendation. Submission of the letter of application and vita by e-mail is encouraged.

Alden Wright, Chair  
Computer Science  
University of Montana  
Missoula, Montana 59812  
[alden.wright@umontana.edu](mailto:alden.wright@umontana.edu)

ADA/EOE/AA/VETERAN'S PREFERENCE

## Professional Opportunities

should submit a complete application (cover letter, curriculum vitae, research statement, teaching statement, and names of at least three references) electronically to [recruiting@cse.wustl.edu](mailto:recruiting@cse.wustl.edu). Other communications may be directed to:

Prof. Michael Brent  
Department of Computer  
Science and Engineering  
Campus Box 1045  
Washington University  
One Brookings Drive  
St. Louis, MO 63130-4899

Applications will be considered as they are received. Washington University is an equal opportunity/affirmative action employer.

### Wayne State University Department of Computer Science Tenure-Track Faculty Positions

The Department of Computer Science of Wayne State University invites applications for two tenure-track faculty positions, subject to administrative approval, at the Assistant/Associate Professor level. Continuing our recent growth, we are seeking applicants in the areas of Software Engineering and Services Computing. Outstanding applications in other areas will also be considered.

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

We offer B.S., M.S. and Ph.D. degrees with enrollment of over 80 Ph.D. students. Our total annual R&D expenditures average between \$2-3 million.

Wayne State University is a premier institution of higher education offering more than 350 undergraduate and graduate academic programs through 11 schools and colleges to more than 33,000 students. 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>. Please include a letter of intent, statement of research and teaching interests, CV, and contact information for at least three references. All applications received by December 1, 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.

### Wayne State University College of Liberal Arts and Sciences Faculty Positions in Bioinformatics/ Computational Biology

The College of Liberal Arts and Sciences anticipates up to three tenure-track openings in bioinformatics/computational biology that will build on our existing strengths in computer sciences and life sciences. The new faculty will be housed in the Department of Computer Science or Department of Biological Sciences according to their background and preference. Rank will be dependent upon qualifications. As part of this cluster hire, we anticipate the creation of

a Center for Computational Biology and Bioinformatics. Joint appointments in other Schools/Colleges/Centers/Institutes will be available, as appropriate.

Areas of interest include, but not limited to, development of high throughput data analysis methods and techniques (e.g., microarray, sequence analysis), systems biology, data mining, and bioinformatics/computational biology applications (e.g., genomics, proteomics, ribonomics, metabolomics, genomic medicine and disease).

Wayne State University is a comprehensive, nationally ranked research institution that offers generous start-up packages. Applicants must have a Ph.D. degree or equivalent and an outstanding research record. Successful applicants are expected to establish and maintain vigorous, externally funded research programs and to participate in education at both the undergraduate and graduate levels. In addition, successful applicants will be expected to exploit and expand the existing collaborative culture in the campus among faculty members of Biological Sciences, Computer Science, the School of Medicine's Karmanos Cancer Institute, the Center for Molecular Medicine and Genetics, the Institute of Environmental Health Sciences, the Mott Center for Human Growth and Development, Detroit Regional Institute for Clinical and Translational Research and the Henry Ford Health System.

Applications must be submitted online at <http://jobs.wayne.edu>, referring to Posting #035531. Include a letter of intent, 2-page statement of research interests, 1-page statement of teaching interests, curriculum vitae, and contact information for at least three references. All applications will be strictly confidential and references will be requested only for applicants who are shortlisted. Applicants must indicate the position(s) for which they are applying by marking the corresponding Position Number(s). Only those application materials that are submitted to this site will be considered. The search will remain open until the positions have been filled.

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

### Williams College Computer Science Department Visiting Faculty Position

The Department of Computer Science at Williams College invites applications for a one-year visiting faculty position beginning in the fall of 2009. We are particularly interested in candidates who can teach undergraduate courses in the theory of computation and algorithms. Candidates should have a commitment to excellence in teaching and possess a Ph.D. in computer science or a closely related discipline by September 2009. The successful candidate will teach up to four courses during the academic year.

The Department of Computer Science consists of eight faculty members supporting a thriving undergraduate computer science major in a congenial working environment with small classes, excellent students, and state-of-the-art facilities. Williams College is a highly selective, coeducational, liberal arts college of 2100 students located in the scenic Berkshires of Western Massachusetts.

Applications in the form of a vita, a teaching statement, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher, may be sent to:

Professor Thomas Murtagh, Chair  
Department of Computer Science  
TCL, 47 Lab Campus Drive  
Williams College  
Williamstown, MA 01267

Electronic mail may be sent to [cssearch@cs.williams.edu](mailto:cssearch@cs.williams.edu). Applications should be submitted by January 15, 2009 and will be considered until the position is filled.

Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

### Worcester Polytechnic Institute Computer Science Department Tenure Track Faculty Positions starting August 2009

Balance. Research & Teaching, Theory & Practice, Innovation & Fundamentals, Classes & Projects, Work & Play. Balance defines life at WPI. If you are that unique individual who strives for and achieves it, consider joining the faculty at WPI.

The Computer Science Department anticipates hiring tenure-track faculty at the Assistant Professor level for the Fall of 2009. Areas of particular interest include Robotics, Theory, Security, Systems & Networking, and Learning Sciences. However, outstanding candidates at any rank and in any area will receive full consideration. Candidates should have a PhD in Computer Science or a closely related field, and the potential for excellence in research and teaching.

The Department grants BS, MS, and PhD degrees, and is among the largest at WPI, with 20 tenure-track faculty members and approximately 320 majors and 100 full-time MS and PhD students. We expect to maintain the exceptionally close-knit, collegial atmosphere we currently enjoy. We are supported by federal agencies (including NSF, NIH, NSA, ONR, DHS, and DARPA) and industry (including Sun, Intel, Cisco, and Google).

Please refer to the CS web site at: <http://www.cs.wpi.edu/> for more information.

WPI is an elite national university with an enrollment of 3,900, 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 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 it ideal for dual career families.

Questions about the hiring process should be sent to [recruit@cs.wpi.edu](mailto:recruit@cs.wpi.edu). Applications should be submitted through <http://www.wpi.edu/Admin/HR/>. Please include detailed research and teaching statements, vitae, and contact information for at least three references.

For full consideration, applications should be received by 01/16/2009.

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

### Wright State University Kno.e.sis Center Tenure Track Faculty Position

The Department of Computer Science and Engineering (CSE) at Wright State University seeks applicants for a tenure

track Assistant Professor Position. The Department is one of the four departments in the College of Engineering and Computer Science and offers B.S., M.S. and Ph.D. degrees both in Computer Science and Computer Engineering. Candidates for these positions are expected to have an earned Ph.D. in computer science, computer engineering or a closely related field and evidence of scholarship in that field appropriate to the position. Successful candidates will be expected to participate fully in the Department through research, teaching and service. The focus of the current search is for faculty specializing in data management, integration and analysis (including Web search, data/text mining, and knowledge discovery), Web 2.0/Web3.0/Semantic Web and related research (including use of IR/NLP/KR/AI/learning/statistical approaches), Services Science, and distributed computing using Grid or Cloud Computing. Successful candidates may be able to find significant opportunities for collaborations within the department (e.g., see the Kno.e.sis Center, <http://knoesis.wright.edu> <<http://knoesis.wright.edu/>>) and across the region with potential for interdisciplinary research in biomedicine, healthcare, and defense applications with the neighboring Wright-Patterson Air Force Base (WPAFB).

The CSE Department has 25 faculty members, more than 400 undergraduate, 90 M.S. and around 40 Ph.D. students. It is housed in an attractive engineering building with well equipped research laboratories. The departmental facilities recently received significant enhancement with the completion of the 50,000 sq. ft. Joshi Research Center which houses the Kno.e.sis Center, additional research labs, and faculty offices. This addition was made possible by an \$11M award from the State of Ohio to establish a Wright Center of Innovation for Advanced Data Management and Analysis. Salaries and resources are competitive. Additional information about the programs and faculty of the Department as well as any update regarding this advertisement can be found at: <http://www.cs.wright.edu/cse> <<http://www.cs.wright.edu/cse>>. Wright State University, an institution of nearly 17,000 students, is located on a spacious campus with a significant area of protected green space in a growing high-technology suburban community. It is surrounded by commercial (Lexis-Nexis, NCR, Reynolds & Reynolds, etc.) and defense companies, as well as government (e.g., WPAFB) research and development facilities. The University is proactively committed to industrial and government partnerships for research and economic development ventures. A variety of affordable and pleasant living environments, schools and parks, attractive to professionals are conveniently located close to the campus. Wright State University has a strong institutional commitment to diversity, and we are particularly including underrepresented groups, women, persons with disabilities, and veterans. Applicants should provide a brief statement of their research, teaching interests, and professional goals. The application should include a complete vita with the names, addresses, telephone numbers and e-mail addresses of at least four references, plus any additional supporting information. Send applications and supporting information to:

Tenure Track Faculty Search Committee  
Department of Computer Science & Engineering  
3640 Colonel Glenn Hwy  
Wright State University  
Dayton, OH 45435-0001

Consideration of candidates begins November 15, 2008 and continues until the position is filled. For details and additional information, you may contact Prof. Thomas Sudkamp, Chair, at [thomas.sudkamp@wright.edu](mailto:thomas.sudkamp@wright.edu)

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

## DREU: Distributed Research Experiences for Undergraduates

(Known as the DMP, Distributed Mentor Project,  
from 1994-2008)

Application Deadline for Summer 2009

**February 15, 2009**

Details: <http://www.cra.org/Activities/craw/dmp/index.php>