

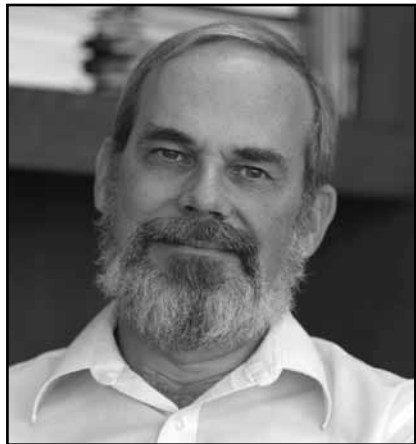
COMPUTING RESEARCH NEWS

A Publication of the Computing Research Association

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Ratings Redux

By Eric Grimson, CRA Board Chair, on behalf of the CRA Board



In the May 2010 issue of *Computing Research News*, we provided a perspective on our interactions with the National Research Council group tasked with evaluating and ranking doctoral programs. We outlined concerns with the pending ranking system, especially with regard to its plans to evaluate faculty publications and citations using a method we believe to be flawed. As reported in the *CRN* article, the

NRC’s compromise was to remove the citation analysis and to augment the data used in the report with a list of conferences provided by the CRA (see the CRA web site for a link to the list), together with CVs submitted by faculty to the NRC.

On September 28, the NRC finally released its report, and the resulting debate in the academic community has been remarkable. Already a number of articles and blogs have raised questions about the study’s validity. Some cite concerns from highly respected statisticians about the overall methodology (see <http://www.chroniclereports.com/article/A-Critic-Sees-Deep-Problems-in-124725/>). In particular, Stephen Stigler of the University of Chicago raises major concerns about the methodology and the associated ability of the ranking system to distinguish between programs, concluding that: “Little credence should be given” to NRC’s ranges of rankings (<http://news.uchicago.edu/btn/nrc.summary.php>).

Others have raised concerns about the relevance of stale data (from 2002-2006).

Since the release, many departments have examined the data in detail and the associated ranges of rank produced by the NRC system. Based on their observations, there appear to be additional concerns about the NRC rankings—some unique to our discipline and some perhaps shared by other disciplines. We highlight some of those concerns.

We understand that the NRC is in a difficult situation. The report is very late, and the approach attempts a much larger study and much more ambitious statistical analysis of data associated with doctoral programs than previous ranking reports. Hence it is exploring new ground, and there will always be institutions unhappy with their ranking. However, we think it is important for the reputation and integrity of the NRC that it release a report and associated data set that are accurate and consistent; and it is (especially) important to the field of Computer Science that it be accurately reflected. Accuracy implies not only that the data are correct, but also that the data are measuring what the NRC intended (hence our earlier dialogue about computer science publications, where the data may have been an accurate count of what was measured,

but the choice of data set did not accurately reflect the publication rate of the field, which is what NRC wanted to measure). Consistency implies that all the data are measuring the same thing. This is important for categories where individual institutions provided data, since some institutions misinterpreted what was requested and supplied data that skew the statistics.

We urged the NRC to delay the public release of the report and data set until institutions could respond to the study and provide corrected data. We realize that delaying may not have been possible, given pressure on the NRC to finally publish the study. Thus, as an alternative, we urged the NRC to correct errors of fact submitted to them within some reasonable time period. We understand the NRC will accept corrections for errors made by them, and will re-release the study in a month’s time; however, they will not correct errors for which they believe they are not at fault, but will simply list these on their web site.

What are possible types of flaws in the data?

- Actual errors in measuring data—one assumes that there are

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NSF Appoints New CISE Head and Senior Staff



The National Science Foundation (NSF) has announced that Farnam Jahanian, professor and chair of Computer Science and Engineering at the University of Michigan, will become the new head of its Computer & Information Science & Engineering (CISE) directorate on February 1, 2011.

According to the NSF press release, “[Dr. Jahanian’s] extensive knowledge of and research in network infrastructures and his support for entrepreneurship and commercialization have already had great consequences for the nation’s development of cybersecurity. And he has made tremendous strides in

showcasing how innovative university research can be paired with private industry. He will be a tremendous addition to NSF.”

Dr. Jahanian has been a Michigan faculty member since 1993, directing the Software Systems Laboratory for four years and serving as department chair since 2007. Prior to joining the faculty at Michigan, he was a research staff member at the IBM T.J. Watson Research Center in New York.

His research on Internet infrastructure and security formed the basis for the highly successful Internet security services company, Arbor Networks, which Jahanian co-founded in 2001. Today, 70 percent of Internet backbone transit traffic is protected by Arbor technology, demonstrating how basic university research can be uniquely central to an innovation ecosystem that drives economic growth, global competitiveness, and job creation.

Dr. Jahanian has authored over 90 published research papers and has served on dozens of national advisory boards and government panels. He has received numerous other awards, including an ACM SIGCOMM Test of Time Award for his foundational Internet security research, the Amoco

teaching award, and the State of Michigan Governor’s University Award for Commercialization Excellence. In 2009, he was named Distinguished University Innovator at the University of Michigan. He is a Fellow of ACM and IEEE.

NSF also has recently appointed three new CISE division directors: In June, **Dr. Howard Wactlar** became Director of the CISE Division of Information and Intelligent Systems (IIS). He comes from Carnegie Mellon University where he was Vice Provost for Research Computing, Associate Dean, School of Computer Science, and Alumni Research Professor of Computer Science. **Dr. Keith Marzullo** joined CISE as Director of the CISE Division of Computer and Network Systems (CNS) in September. He was formerly chair of the Computer Science and Engineering Department at the University of California, San Diego. In late August, **Dr. Susanne Hambrusch**, professor of Computer Sciences at Purdue University, and recent Secretary of the CRA Board, became Director of the Division of Computing and Communication Foundations (CCF). ■

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Expanding the Pipeline Broader Impacts - Should You Care?

By Tracy Camp and Juan Gilbert

Computing Research Association

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Yes! For many reasons, you should *definitely* care about broader impacts.

First, many CISE researchers report that broader impact efforts bring inspiration, personal satisfaction and new perspectives on their work. What could be more rewarding than seeing significant impact from your efforts? Second, if you receive federal funds for your research, then you should feel a moral obligation to return the taxpayers’ investment by participating in efforts that will ultimately benefit society. Taxpayers deserve benefits for the money that they provide. Third, on May 28, 2010, the America COMPETES Reauthorization Act of 2010 bill was passed by the House and is currently being considered by the Senate. If passed, NSF will need to implement a policy for the Broader Impacts Review Criterion that meets the goals of the Act. (For further details on COMPETES, see: “NSF’s Broader Impact Criterion,” *Computing Research News*, vol. 22, No. 4, p. 6, September 2010.)

Several leaders within CISE want (and, potentially, need) current and future investigators to improve the broader impacts of each funded NSF grant. While the intellectual merit contributions from CISE investigators appear to be strong, the broader impacts could be (and should be) improved. The five broader impacts criteria are:

1. advance science while promoting teaching, training and learning;
2. broaden participation of underrepresented groups;
3. enhance infrastructure for research and education;
4. provide broad dissemination to enhance scientific and technological understanding; and
5. highlight the benefit to society.

There was, however, much confusion among members of the CISE community about what these criteria really mean. Therefore a two-day Summit was organized in D.C. beginning the evening of June 21 to discuss, present, and subsequently develop guidance materials for the NSF computing research community on how to effectively integrate broader impact activities into research projects. Funding was provided by the Computer and Network Systems (CNS) Division of CISE. Attendance was by invitation only. Approximately half of the 123 attendees were invited via a submission process. Attendees included CISE researchers, NSF Program Managers, NSF Division Directors, Ph.D. students (who helped document the working group sessions), and Computing Innovation (CI) Fellows (who have written report drafts that summarize the discussions of each broader impact category).

Keynote speakers were Jeannette Wing (then Assistant Director, CISE, NSF), Jim Shelton, (Assistant Deputy Secretary for Innovation and

Improvement at the Department of Education), Neil Gershenfeld (Director of the Center for Bits and Atoms at MIT), and Deborah Estrin (Director of the Center for Embedded Networked Sensing at UCLA). In addition to the keynote speakers, 24 other presentations were given by CISE community members, each of whom was asked to showcase a particularly impressive broader impact activity.

All materials developed for the Summit are posted at: <http://cisebroaderimpacts.org/>. Currently this CISE Broader Impacts site includes:

1. The full Summit agenda, with videos and slides of all Summit presentations.
2. A list of the people who participated in the Summit. We encourage you to contact anyone on this list and request assistance in improving the broader impacts of your work.
3. Examples of high-quality broader impact activities. We detail one activity from each of the five broader impact categories, as well as one activity that spans multiple categories. We also provide links to other examples of activities that were presented at the Summit.

One example of a high-quality broader impact activity from category 4 (i.e., provide broad dissemination to enhance scientific and technological understanding) concerns giving presentations to the public via science cafes. Miriah Meyer (CI Fellow at Harvard University) writes:

“For the cost of a cup of coffee or a pint of beer, people interested in various scientific topics converge to hear talks by local scientists and engineers. These informal talks are a chance for researchers to bring their ideas and work to the local community. Examples include domestic grassroots events announced on the Nova ScienceNow webpage <http://sciencecafes.org>, and the Cafe Scientifique events (<http://www.cafescientifique.org/>) in the UK sponsored by the Wellcome Trust. Many of these events are founded by university groups, such as the Boulder Colorado Cafe Scientifique (<http://www.cafesciboulder.org/>).”

In the near future, the CISE Broader Impacts site (<http://cisebroaderimpacts.org/>) will also include:

1. Reports that summarize the presentations and discussions at the Summit for each of the five broader impact categories. The main goal of these reports is to document both existing superior broader impact activities and new innovative ideas for broader impact activities.
2. A document that offers suggestions on how NSF proposal reviewers should evaluate proposed efforts involving broader impacts.

3. Opportunities to forge collaborations and partnerships with the potential to enhance the broader impacts of computing funded research projects.

We strongly encourage the CISE community to begin putting more emphasis on broader impacts in both their proposals and funded projects. In fact, we expect that it is very likely the NSF will be placing a greater emphasis on broader impacts in the proposal review process. While the broader impacts are clear with certain types of NSF-funded grants (e.g., education-related grants), technical research grants need broader impacts as well. The main goal of this effort is to provide the computing community with examples and materials on ways that computer scientists can have broader impact on their research, education, and wider communities. It is extremely important that we find ways to demonstrate the broader impacts of our work, as some argue that science is at a crossroads and in some instances being attacked. What better way to justify science than through broader impacts? We invite you to get involved.

Tracy Camp is Professor and Interim Department Head of Mathematics and Computer Sciences at the Colorado School of Mines. Juan Gilbert is a Professor and Chair of the Human-Centered Computing Division in the School of Computing at Clemson University. ■

CRA Service Awards

Distinguished Service Award and A. Nico Habermann Award

Nominations Due: **Jan. 28**

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

DEPARTMENT CHAIRS

Taulbee Surveys Were Due November 5

If you have not already done so please send to:
<http://www.cra.org/taulbee>

Questions? Contact:
[survey\[at\]cra.org](mailto:survey[at]cra.org)

Congress Adjourns Without Finishing Work on Funding, Science Programs

By Peter Harsha

As predicted by many in the science advocacy community, Congress adjourned well in advance of the November mid-term elections without having finished work on any spending bills or a reauthorization of federal research and education programs. Without completed 2011 appropriations, federal agencies began the 2011 fiscal year with spending capped at the 2010 fiscal year levels—a situation that will remain until Congress returns to finish the 2011 appropriations process. Complicating matters is the likelihood of significant change in the composition and, perhaps, leadership of Congress, making it difficult to predict exactly how and when Congress will complete appropriations.

The House adjourned on September 29—effectively placing appropriations on hold—after having passed a measure known as a Continuing Resolution, a stop-gap appropriation intended to keep federal agencies funded after the October 1 start of the new fiscal year. The resolution authorizes federal agencies to continue to spend money at the rate approved last year as part of the FY 10 appropriation process. In the case of federal science agencies, this means that large increases in funding for long-term research requested by the President for FY 11 and approved by several congressional committees—though not yet passed as law—will not take effect until Congress returns to finish its work. It also means that new program starts requested in the President’s budget will not be allowed to proceed and, in many cases, new personnel may not be hired.

The continuing resolution is set to expire on December 3, 2010, meaning Congress will have to reconvene before then to either finish its work or pass another stopgap resolution. With the leadership of the House in question after the mid-term elections, and

the Senate also in play, it is not clear how Congress will proceed when the House returns on November 15.

Growing sentiment among congressional staff seems to indicate that if the House leadership changes as a result of the November elections, Congress will convene in lame-duck session in November and simply pass a continuing resolution that carries into the new Congress in January, effectively punting the problem of finishing up the FY 11 appropriations to the new leadership.

From the viewpoint of the science advocacy community, this option is probably the least desirable. Not only would this further delay new starts and hiring at federal science agencies and possibly reduce the total funding for the agency for the year (because Congress could “pro-rate” the spending for the remaining months left in the fiscal year), but it would also give control over the final numbers in the appropriations bills to the Republican leadership, which has proposed a total freeze in discretionary spending. Increases requested and approved for federal science agencies—including a 7 percent increase for the National Science Foundation, a 3 percent increase for the Department of Energy’s Office of Science, and a 13 percent increase for core research at the National Institute of Standards and Technology—could be imperiled by such an across-the-board discretionary spending freeze.

This approach is not universally embraced by Republicans, however. Most recently, Sen. Lamar Alexander (R-TX) has proposed that should such a freeze go into effect, funding for long-term research should be exempt. “We spend \$3.8 trillion this year, and we need to spend less,” he told AAAS’ *ScienceInsider* in October. “But what we need to do is set priorities. And one of our highest priorities should be research and development, including

using the talent at our great research universities to help create jobs.”

The current Democratic leadership could also decide to take up the unfinished bills during the lame-duck session, regardless of the outcome of the election. What is not clear in this situation is how much pressure the leadership will feel to trim the spending rates already approved by the appropriations committees. Federal science agencies, particularly NSF and NIST, are in the best position to retain increases in this scenario, though it is by no means assured.

In any scenario, Congress is likely to pass the outstanding appropriations bills as one large omnibus bill. With the exception of the Defense Appropriations bill, on which the leadership would like a separate vote, the remaining bills would be bundled into one vehicle with one up or down vote. A must-pass omnibus bill becomes a giant Christmas tree for Members of Congress looking to find a place for their own unenacted legislative priorities, so it is almost impossible to know what programs and proposals will ultimately appear in the final bill. Of particular interest to the computing community will be whether any of the myriad cyber security proposals floating around in legislation finds its way into the omnibus.

Also of interest to the computing community, but not likely to appear in the omnibus, is the reauthorization of the America COMPETES Act, a bill designed to reauthorize federal spending on research and education programs. The COMPETES Reauthorization of 2010 has had a checkered route through Congress so far and, at the recess, has not yet been conferenced by the House and Senate (who have each passed markedly different versions). Unfortunately for those with an interest in seeing Congress take both a symbolic and substantive step in reaffirming

its support for the federal role in sponsoring long-term research, it is unlikely that the reauthorization of COMPETES will move forward during the lame-duck session. Democrats have announced a list of 20 bills they intend to move during the lame-duck and COMPETES is not among them.

The COMPETES reauthorization could, and likely will, be introduced in the new session of Congress. It may not look much like the current versions approved by the House and Senate, however. The COMPETES bill that passed in 2007 under Republican leadership focused much more exclusively on modest funding for NSF, NIST and DOE Office of Science, and on programs designed to improve the participation of U.S. students in STEM disciplines. The COMPETES reauthorization of 2010 was a bit more expansive, including the creation of a number of new programs designed to improve U.S. technology transfer capabilities and larger funding authorizations, about which many of the more fiscally conservative members of the Republicans and Democrats expressed concern.

For now, Members of Congress are back home in their states and districts, doing one last month of campaigning in advance of the election. What will happen when they return is an open question. We’ll have all the answers, as soon as we learn them, on CRA’s Computing Research Policy Blog: <http://cra.org/blog>

You can also follow breaking news of interest to the computing research community by following CRA on Twitter (@CRATweets) or by following us on Facebook. ■

Turning Visions into Federal Programs

By Erwin P. Gianchandani and Ed Lazowska
Computing Community Consortium

Three years into a joint experiment by the National Science Foundation and the Computing Research Association, the Computing Community Consortium continues to mobilize the community to debate long-range research challenges and to build consensus around specific research visions. In addition, consistent with its overall mission, the CCC is articulating these visions to newly cultivated contacts among Federal funding agencies in Washington.

With the help of leading researchers within the field, the CCC led the preparation of a series of ‘White Papers’ on **data analytics**¹ this

past summer. These papers describe data mining, machine learning, predictive modeling, etc., in the context of specific national priorities, including healthcare, new biology, twenty-first century data-enabled science (or eScience), intelligence and national security, new transportation, education, and energy. They link research challenges in data analytics to the missions of Federal funding agencies, including the NSF, the National Institutes of Health, the Departments of Energy, Education, and Transportation, and a number

Turning Visions
Continued on Page 4

Call for Proposals

Discipline-Specific Workshops

Deadline: January 15, 2011

CRA-W and CDC are jointly soliciting proposals for discipline-specific mentoring workshops within computing sub-fields. The goal of these workshops is to increase the participation of members of underrepresented groups within a specific research area by providing career-mentoring advice and discipline-specific overviews of past accomplishments and future research directions.

Details: www.cra-w.org/dsw

Cross Flow Among the 2010 Computing Innovation Fellows

By Erwin P. Gianchandani
Computing Community Consortium

For a second straight year, this summer the Computing Research Association, with funding from the National Science Foundation, extended offers of one- to two-year postdoctoral fellowships to new Ph.D.s, in an attempt to retain recent graduates in computing research and teaching during difficult economic times (see ^{1,2} for details). A key requirement of the CIFellows Project has been to support intellectual diversity in computing fields at U.S. organizations. To this end, the 2010 cohort of CIFellows is comprised of 47 individuals from 34 different Ph.D.-granting universities within the United States, and collectively

the CIFellows are being assigned to 36 unique host organizations spanning U.S. academic departments and industrial research laboratories. As with CRA's 2009 CIFellows, the new awards provide the kind of cross flow across types of organizations that we had sought to promote through the project.

Specifically, as reported in November 2009 (see ³), we measure cross flow by classifying institutions sending (i.e., graduating) and receiving (i.e., hosting) CIFellows according to the groupings of CRA's annual Taulbee Survey, which are derived from the National Research Council's (NRC's) 1994 rankings

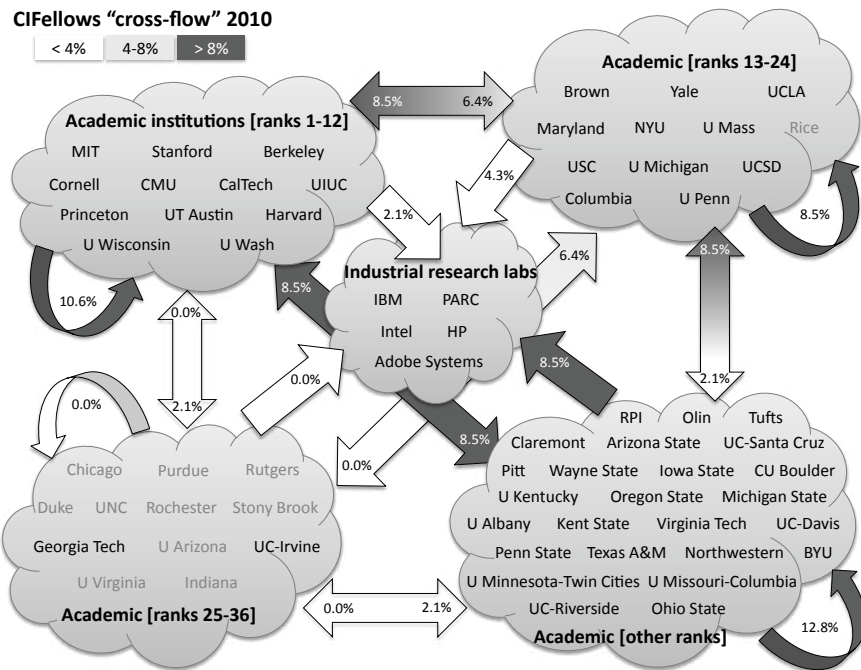
of computer science doctoral programs⁴: departments ranked 1-12, 13-24, 25-36, and higher than 36 or unranked ("other ranks"). This grouping approach is admittedly imperfect; the ratings are somewhat outdated and apply only to a given institution's computer science program, even though CIFellows or mentors may be from computer engineering, information systems, or other allied programs. However, it serves the purpose of an approximate measure of institutional peers, and has the advantage of being familiar to CRA members.

The diagram illustrates the distribution of CIFellows flowing along each possible pathway between five institutional groups, from their Ph.D.-granting universities to their host organizations. The five groups pictured are comprised of the four academic groups described above plus a fifth group that captures the industrial research labs (which of course only host CIFellows). The institutions within each group are delineated inside the corresponding "cloud." Each group with specific NRC ranking numbers (e.g., "1-12" or "13-24," etc.) includes all schools within that group, and those that participated in the 2010 CIFellows Project. The numbers are percentages of the 47 Fellows who followed

that path. On the double-headed arrows, the numbers at each end are percentages of CIFellows going to that group from the other. Arrows that exit and enter the same group represent the percentage of CIFellows remaining in the same group, but moving to host organizations different from their Ph.D.-granting universities. The arrows are shaded according to the legend in the figure; again, the shading breakdown is imperfect, but serves as an approximate visual indicator of the degree of cross flow.

Dr. Erwin Gianchandani is the Director of the Computing Community Consortium (CCC) and the Computing Innovation Fellows Project [E-mail: erwin@cra.org; Phone: (202) 266-2936; Fax: (202) 667-1066.]

Notes:
¹ http://www.cra.org/resources/crn-archive-view-detail/nsf_funds_second_cohort_of_computing_innovation_fellows/.
² http://www.cra.org/resources/crn-archive-view-detail/the_computing_innovation_fellows_project_strengthening_the_field/.
³ <http://archive.cra.org/CRN/articles/nov09/cifxflow.html>.
⁴ An updated set of rankings published by the NRC in September 2010 is the subject of much discussion within the community (as reported elsewhere in this issue) and was not used for this analysis. ■



Turning Visions into Federal Programs from Page 3

of agencies working to preserve the nation's security. The CCC delivered these reports to Tom Kalil—Deputy Director of the White House Office of Science and Technology Policy (OSTP)—just as OSTP and the White House Office of Management and Budget (OMB) began formulating the Federal R&D portfolio for FY 2012.

Thanks to the efforts of **Henrik Christensen** of the Georgia Institute of Technology, the CCC-led **Robotics** roadmap² has garnered tremendous interest throughout the government. The heads of OSTP and OMB identified robotics as one of the administration's R&D priorities for FY 2012, and on September 15, OSTP announced a new initiative³ called **RTD2: Research for Robotics**. Five agencies—NIH, the Department of Defense, NSF, the U.S. Department of Agriculture, and the Department of Homeland Security—issued a joint solicitation for small business research on a wide range of topics, including robot-assisted rehabilitation, robotics for drug discovery, and robots that can

disarm explosive devices. Letters of intent are due November 20, and full applications must be submitted by 5pm local time on December 20. Moreover, OSTP's Tom Kalil announced in a recent blog post, "Expect to see more to come in the months ahead from a newly energized and collaborative Federal robotics community!"

Building on the success of the robotics visioning effort, the CCC has continued to support other community-led visioning exercises. Mark Oskin of the University of Washington and Josep Torrellas of the University of Illinois at Urbana-Champaign co-organized the second workshop in a series on **Advancing Computer Architecture Research** on September 20-21 in Seattle. About 20 leading computer architecture researchers laid out a vision for computer architecture for 2025 and beyond, including specific technology drivers, application drivers, and metrics and goals for success along the way. Meanwhile, Dan Olsen of Brigham Young University organized visioning

workshops on **Interactive Systems Architectures** (August 11-13, Jackson, WY) and **Persuasive Experiences** (September 23-25, Burbank, CA). Leading interactive technology experts envisioned a world in which information and interaction readily flow from person to person and device to device with few walls or barriers. Early reports from these two workshops have been posted to the CCC Blog.⁴ A third workshop—titled **Ultra-Large Scale Interaction**—will be held in Chicago on October 25-27, and Olsen and his colleagues will prepare a roadmap afterward. (To learn more about how you can propose and lead a visioning activity, please see.⁵)

Finally, the CCC is forging new contacts with other Federal agencies and offices. Recent efforts have included meetings on health information technology R&D with the Office of the National Coordinator for Health IT; on ways to bridge collaborations between computer scientists and social scientists with NSF's Assistant Director for Social, Behavioral, and

Economic Sciences (SBE); and on an education technology roadmap⁶ to the Department of Education's Office of Education Technology.

We welcome your involvement! To learn more about the CCC, please visit our website today: <http://cra.org/ccc>.

Dr. Erwin Gianchandani (erwin@cra.org) is the Director of the Computing Community Consortium (CCC) and the Computing Innovation Fellows Project. **Dr. Ed Lazowska** (lazowska@cs.washington.edu) is Chair of the CCC Council and Bill & Melinda Gates Chair in Computer Science & Engineering at the University of Washington.

Notes:
¹ <http://cra.org/ccc/initiatives.php>.
² <http://cra.org/ccc/robotics.php>.
³ <http://www.whitehouse.gov/blog/2010/09/15/rtd2-research-robotics>.
⁴ <http://www.cccb.org>.
⁵ <http://www.cra.org/ccc/vision.php>.
⁶ <http://cra.org/ccc/groe.php>.

The computing research community thanks the following non-board members and former board members who served on CRA committees in 2009-10.

<p>Rick Adrion** (University of Massachusetts) Nancy Amato (Texas A&M University) Wayne Bennett (ECEDHA) Judith Bishop (Microsoft Research) Peter Bloniarz (University of Albany) Ron Brachman (Yahoo! Research) Sheila Castañeda (Clarke College) Lori Clarke** (University of Massachusetts) Joanne Cohoon (University of Virginia) Anne Condon** (University of British Columbia) Michelle Craig (University of Toronto) Faith Ellen (University of Toronto) Ron Eglash (Rensselaer Polytechnic Institute) Carla Ellis** (Duke University) Bill Feiereisen (Los Alamos National Laboratory) Jim Foley** (Georgia Institute of Technology) Ed Fox (Virginia Tech) Joan Francioni (Winona State University) Ann Gates (University of Texas, El Paso) Susan Graham (UC Berkeley) Jose-Marie Griffiths (University of North Carolina, Chapel Hill) John Guttag** (Massachusetts Institute of Technology) Pat Hanrahan (Stanford University) Jessica Hodgins (Carnegie Mellon University)</p>	<p>Jim Horning** (Advanced Elemental Technologies Inc.) Mary Jane Irwin** (Penn State University) Chris Johnson (University of Utah) Anita Jones (University of Virginia) David Kaeli (Northeastern University) Robert Kahn** (CNRI) Sid Karin** (UC San Diego) Dick Karp (UC Berkeley) Randy Katz** (UC Berkeley) Henry Kelly (Federation of American Scientists) Maria Klawe** (Harvey Mudd College) Hank Korth (Lehigh University) John King** (University of Michigan) Susan Landau (Sun Microsystems Laboratories) Cynthia Lanius (Independent Consultant) Tessa Lau (IBM) Ed Lazowska** (University of Washington) Ran Libeskind-Hadas (Harvey Mudd College) Andrew McCallum (University of Massachusetts) Renee McCauley (College of Charleston) Renée Miller (University of Toronto) Robin Murphy (Texas A&M University) Beth Mynatt (Georgia Institute of Technology) Joann Ordille (Avaya Labs) Sethuraman Panchanathan (Arizona State University)</p>	<p>Manuel Perez-Quñones (Virginia Tech) Lori Pollock (University of Delaware) Dan Reed** (Microsoft Research) Debra Richardson (UC Irvine) Bobby Schnabel** (Indiana University) Mark Segal (National Security Agency) Marc Snir** (University of Illinois, Urbana Champaign) David E. Shaw (D.E. Shaw Research) Mary Lou Soffa** (University of Virginia) Eugene Spafford** (Purdue University) Alfred Spector** (Google) Bob Sproull** (Oracle) Lynn Stein (Olin College) Frank Tompa** (University of Waterloo) Andy van Dam** (Brown University) Rose van Thater-Braan (UC Berkeley) David Waltz** (Columbia University) Elaine Weyuker** (AT&T) Telle Whitney (Anita Borg Institute) Pamela Williams (Sandia National Laboratories) Margaret Wright (New York University) Bryant York** (Portland State University) Stuart Zweben** (Ohio State University)</p>
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***Former CRA board members*

New Staff Member Joins CRA

We are pleased to welcome Kenneth Hines to the CRA staff as a Research Analyst. Kenneth is a recent graduate of the University of Maryland Baltimore County with a Master of Arts degree in Applied Sociology with a focus on research methodology, statistics and evaluation.



Previously, Kenneth gained valuable experience through Johns Hopkins University where he was involved with the Center for Prevention and Early Intervention on a program called “PATHS to PAX,” a program that focuses on teaching effectiveness within Baltimore City Schools. As a graduate student at UMBC, he served as a teaching assistant for various courses including Research Methodology. Kenneth resides in Germantown, Maryland and enjoys playing golf in his spare time.



Speakers in the CRA-W session, “How Do I Enjoy and Succeed in Graduate School?” held during the recent Grace Hopper Conference included (l-r) Elizabeth Mynatt (Georgia Tech), Erika Shehan Poole (Georgia Tech), and CRA Board Member, Jane Prey (Microsoft Research).

**CRA-W Anita Borg
Early Career Award**

Nomination Deadline
February 15, 2011

Details: <http://www.cra-w.org/borg>

CRA Board Member Elections 2011

Nominations Due: **December 1, 2010**

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



Pictured with her poster at the Grace Hopper Conference is CREU student Lauren Stuart, with Andrea Danyluk, the CREU co-chair.

Ratings Redux from Page 1

few such errors (we note that the original release of one category of data in the Computer Science discipline was wrong due to a programming error, and was corrected by the NRC before the full release).

- Instances in which the NRC has chosen to use incomplete or flawed data sources—one assumes the NRC will claim these are not errors, but one wonders whether errors of judgment were made in selecting these sources.
- Instances in which ambiguity in the requirements led some institutions to select data in a manner significantly different from others—one assumes the NRC will claim these are not their errors. We understand that the misunderstanding may have occurred at the institution, but we believe that the NRC should not be “punishing” an institution for such a mistake; the goal should be to provide a picture of the field that is as accurate and consistent as possible.

Here are some of the issues that colleagues have found that indicate inaccurate or inconsistent data.

Examples of flawed data sources:

- Percent of graduates destined for academic positions: The NRC originally asked institutions to provide data on the current employment of all graduates over the specified period, and many institutions went to great effort to gather these data. However, rather than using the data, NRC decided to use the

2005 NSF Doctorate Records File. Unfortunately, these data are voluntary, under-sampled, and administered at time of graduation when students may not know their job plans. For example, NRC reports a 25% rate for a school whose internal data show 50%; it reports 0% for another school whose actual rate is 40%.

- **Percentage of faculty with grants:** This was acquired from surveys sent to a subset of faculty, rather than requested directly from institutions. Some of the reported data simply don't make sense, and several institutions report values that are wrong by significant margins (e.g., a reported rate of 80% when the actual rate is greater than 90%, a difference of one standard deviation).
- **Partial allocation of faculty:** Departments were originally asked to classify faculty as primary or secondary in Computer Science, in Electrical and Computer Engineering, or in Computer Engineering. NRC ultimately decided not to rate CE departments; however, we understand that departments were not allowed to reallocate CE faculty to other areas. Thus such faculty members are only partially contributing to data—their publications, citations, and other factors are distributed between programs, or may not be counted at all.
- **Awards:** We are very puzzled by the list of awards that the NRC

used for this category. Apparently being a fellow of the ACM or the IEEE is not considered an honor worthy of consideration; and many other awards seem to be missing from the list.

- Publications: We hope that NRC was able to include relevant conference publications. We remain concerned about the actual numbers being reported, which several institutions have questioned. We don't know whether the NRC was able to match acronyms of conferences as listed in CVs against the list the CRA provided. Furthermore, we don't know how many faculty actually submitted CVs, since institutions were not allowed to collect and submit the CVs; instead, the NRC required individual faculty members to provide them.

Examples of inconsistent data reporting:

- Reporting of faculty: Some schools misinterpreted this criterion, and reported all faculty and research staff involved in doctoral thesis committees or supervision. Many others interpreted this criterion more narrowly, and reported only full-time faculty in the department. This has a significant impact on the data, since it dramatically changes the denominator in any ratio-based statistic, and leads to inconsistent data among schools. More than one school suffered from this misinterpretation. While I have heard suggestions

that this is “too bad” for those schools, presumably we want rankings that reflect actual consistent assessment of the field, and not have institutions “punished” for misinterpreting what is requested.

- Reporting of associated faculty: Some schools misinterpreted this category, which NRC is using to measure interdisciplinary faculty. A number of schools well known for having very interdisciplinary research (as measured by funding sources or research collaborations) are reported in the NRC data with 0% interdisciplinary faculty. Unfortunately, the NRC changed its plans for assessing interdisciplinary research late in the game. Originally this was to be assessed as part of faculty surveys; after the NRC decided to measure it through associated faculty, it declined to allow institutions to update their designation of faculty.

So where does this leave the community? With questions about the quality of the data for many categories—either inconsistent across institutions or simply not an accurate reflection of the category—one has to feel that Prof. Stigler's conclusion holds even more so. After all, as computer scientists, we certainly understand: "Garbage in, garbage out."

Eric Grimson is the Bernard Gordon Professor of Medical Engineering and head of the Electrical Engineering and Computer Science Department at MIT. ■

2011 Richard Tapia Celebration of Diversity in Computing Conference

April 3-5, 2011, San Francisco, CA
<http://tapiaconference.org/2011/>

CALL FOR PARTICIPATION

The 2011 Richard Tapia Celebration of Diversity in Computing Conference, organized by the Coalition to Diversify Computing, sponsored by the Association for Computing Machinery, and in cooperation with the IEEE-Computer Society and the Computing Research Association, is a celebration of the diversity of the researchers in the field of computing. This conference brings together diverse leading researchers to present state-of-the-art topics in the field of computing. Confirmed speakers include **Irving Wladawsky-Berger**, retired from IBM, AAAS Fellow, and 2001 Hispanic Engineer of the Year; **Alan Eustace**, Senior Vice President at Google; and **Illya Hicks**, Associate Professor in the Computational and Applied Mathematics Department at Rice University.

- Panel Submission

Panels can focus on technical areas or issues related to increasing diversity in the field of computing. The goal of a panel is to provide in-depth discussions. A panel proposal should include the panel description, panelists and moderator names, and contact information. Panel proposals must be submitted by **November 30, 2010** to: <http://tapiacference.org/2011/panels>. Authors will be notified of acceptance decisions by December 15, 2010.

- **Birds of a Feather Submission**

A BoF proposal should include an abstract on the topic of the BoF, the expected audience, and a brief summary of the qualifications of the organizer who will lead the session. BoF proposals must be submitted by **November 30, 2010** to: <http://tapiaconference.org/2011/bofs>. Authors will be notified of acceptance decisions by December 15, 2010.

- **Poster Submission**

We invite students to submit poster abstracts that focus on late-breaking research results from current research projects or course projects. Poster proposals must be submitted by **January 21, 2011** to: <http://tapiaconference/2011/posters>. Authors will be notified of acceptance decisions by February 4, 2011.

- **Scholarship Applications**

The Tapia Conference Scholarship Program facilitates attendance of those individuals who would otherwise be unable to attend. The scholarships cover travel, hotel, and conference registration. Preference will be given to students and mentors who present posters, panels, or BoFs. In addition, preference will be given to teams comprised of faculty and students. Scholarship applications must be submitted by **January 21, 2011** to: <http://tapiaconference.org/2011/scholarships/apply>. Authors will be notified of acceptance decisions by February 15, 2011.

NSF-Sponsored Academic Workshop for Underrepresented Ethnic Minorities and People with Disabilities at the Level of Assistant Professor, Associate Professor, and Senior Doctoral Students

Thursday, February 24, 2011 – Sunday, February 27, 2011

Radisson Hotel in Los Angeles, California at USC

(<http://www.radisson.com/hotels/cafiguer>

Deadline for Participant Applications—Friday, December 3, 2010

The Coalition to Diversify Computing (CDC), a joint organization of the Association of Computing Machinery (ACM), the Computing Research Association (CRA), and the IEEE Computer Society (IEEE-CS); the Center for Minorities and People with Disabilities in IT (CMD-IT); Computing Alliance of Hispanic-Serving Institutions (CAHSI); and the Alliance for Access to Computing Careers (AccessComputing) are organizing the fourth annual Academic Workshop for Underrepresented Ethnic Minorities and People with Disabilities with funding from NSF's Broadening Participation in Computing (BPC) program. The BPC Demonstration grant provides funding for participant travel, lodging, and meeting logistics.

The goal of the workshop is to provide unique, tailored experiences for underrepresented ethnic minorities and people with disabilities at the levels of assistant and associate faculty and senior doctoral students about the career ladder. It is well known that mentoring activities are critical for successful promotions in the professoriate. Such activities are especially needed in the field of computing, where the number in the targeted groups at a given institution is usually very small. The workshop will include panels of diverse senior faculty talking about the tenure and promotion process, launching a research program, professionalism, and a detailed session on proposal writing. The workshop organizers include Valerie Taylor (Texas A&M University), Bryant York (Portland State University), Illya Hicks (Rice University), Ann Gates (University of Texas in El Paso), Richard Ladner (University of Washington), and Timothy Pinkston (University of Southern California).

We invite candidates to complete an on-line application at the following URL: <http://apply2.cse.tamu.edu/AcademicCareerWorkshop/> by **Friday, December 3, 2010**. Participants will be notified by Monday, December 20, 2010. Funding to cover travel expenses will be provided. Questions about the program can be sent to Valerie Taylor (taylor@cse.tamu.edu).

Professional Opportunities

The Advanced Digital Science Center

Senior and Early Career Researchers
The Advanced Digital Sciences Center (ADSC) invites applications at all levels for full-time research positions in Singapore. ADSC is led by outstanding faculty from the College of Engineering at the University of Illinois at Urbana-Champaign, with core funding provided by Singapore’s Agency for Science, Technology and Research (A*STAR).

Research areas of interest span a wide range of specialties, including (but not limited to) audio engineering, reconfigurable computing and hardware accelerators, information mining and management, computer vision, security and privacy, cyber-physical systems, networking and distributed systems. Successful applicants will possess a PhD in electrical engineering, computer engineering, computer science, or a closely related field; outstanding academic credentials and demonstrated excellence in research; and the ability to supervise graduate and undergraduate students while collaborating with Illinois faculty and other ADSC researchers. Salary is open, based on qualifications.

Applications will be accepted on a rolling basis, and will also automatically be considered for future research initiatives and projects. Further information, including the on-line system for applications, is available through the ADSC web site, adsc.illinois.edu.

ADSC is committed to diversity and the principles of equal opportunity.

Bangor University, North Wales, UK
Computer Science

Postdoc: Computer graphics, image quality, high dynamic range imaging
The Visualisation Group within the School of Computer Science is seeking to recruit a Postdoctoral Researcher to work on groundbreaking research in high dynamic range imaging, modelling of human visual perception, and image quality assessment. The appointment is part of the project on “Quantifying image quality in computer graphics” and is available for 15 months.

For detailed information, please visit:
<http://www.bangor.ac.uk/corporate/vacancies/home.php.en?jobdetails=1&reference=10-10/24>

Cal Poly Pomona
Computer Science Department
Assistant Professor

The Computer Science Department invites applications for a tenure-track position at the rank of Assistant Professor to begin Fall 2011. We are particularly interested in candidates with specialization in Software Engineering, although candidates in all areas of Computer Science will be considered, and are encouraged to apply. Cal Poly Pomona is 30 miles east of L.A. and is one of 23 campuses in the California State University. The department offers an ABET-accredited B.S. program and an M.S. program. Qualifications: Possess, or complete by September 2011, a Ph.D. in Computer Science or closely related area. Demonstrate strong English communication skills, a commitment to actively engage in the teaching, research and curricular development activities of the department at both undergraduate and graduate levels, and ability to work with a diverse student body and multicultural constituencies. Ability to teach a broad range of courses, and to articulate complex subject matter to students at all educational levels. First consideration will be given to completed applications received no later than December 15, 2010. Contact: Faculty Search Committee, Computer Science

Department, Cal Poly Pomona, Pomona, CA 91768. Email: cs@csupomona.edu. Cal Poly Pomona is an Equal Opportunity, Affirmative Action Employer. Position announcement available at: <http://academic.csupomona.edu/faculty/positions.aspx>
Lawful authorization to work in US required for hiring.

Carnegie Mellon University
The School of Computer Science
Junior Faculty Positions

The School of Computer Science seeks junior 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; Lane Center for Computational Biology; Language Technologies Institute; Machine Learning Department and the Robotics Department.

Applications should include curriculum vitae, statement of research and teaching interests, 1-3 representative papers, and names and email addresses of three or more individuals who have been asked to provide letters of reference. Applications must be in PDF format. Applicants should arrange for reference letters to be sent in PDF format directly to the Faculty Search Committee (see website for instructions), to arrive before January 15, 2011.

The Search Committee will not directly request letters. Incomplete applications will not be processed. Applications should indicate citizenship and, for non-US citizens, current visa status.

Please refer to the Hiring Website for details and submission guidelines. Applications will be accepted from November 1st, 2010 through January 1st, 2011. Please contact the Search Committee at faculty-search@cs.cmu.edu with questions.

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

Case Western Reserve University, Cleveland, Ohio
Division for Medical Informatics, Center for Clinical Investigation
Four staff positions at the Research Associate and Senior Research Associate levels
Research Developer Staff Positions in Biomedical Informatics

The Division for Medical Informatics, Center for Clinical Investigation in Case Western Reserve University’s School of Medicine invites applications for four staff positions at the Research Associate and Senior Research Associate levels. Qualification for each position may vary, but a candidate must have M.S. in computer science, medical informatics or a related area with minimum five years experience. A senior candidate should have a PhD degree. We are seeking candidates at the intersection of computer science, medicine and clinical translational science, with a strong track record in developing software tools, methodologies and informatics infrastructure with a direct bearing on the biomedical research enterprise. Annual salary depends on qualification and responsibility but can go as high as \$90k. Effort distribution will be finalized when

offer is made, but responsibilities typically include a combination of the following broad categories:

- Leading research programming and development effort for informatics infrastructure used in major centers such as CTSA and Comprehensive Cancer Center;
- Collaborating with biomedical and clinical investigators and teams to develop forward-looking initiatives to better support their project objectives and overall mission, including innovative solutions for data collection, large scale data storage & retrieval, data integration, data mining & knowledge discovery, data visualization, and social networking;
- Implementing and supporting a robust and scalable IT infrastructure accounting for resource management, storage space and computational capacity, as well as improving secure and policy-compliant access to PHI (patient health information) to enhance translational and comparative effectiveness research.

A successful candidate will be creative and fluent in the agile development methodology (e.g. Ruby on Rails); adept in semantic-web techniques (e.g. ontological systems and RDF), service-oriented architecture (e.g. RESTful) and user-centered interfaces; impact-driven and flourish in team work; enjoy interactions with domain expert and end user through effective communication; self-motivated, independent but disciplined to work under a rigorous project management framework (e.g. Rally). Clinical background and experience in large-scale data integration are pluses. Candidates with substantial architecture or project management experience are also encouraged to apply.

Applicant should email CV, a cover letter summarizing their experiences, and the names of two references to: jxa136@case.edu. Questions can be directed to Professor GQ Zhang, Division Chief, at gq@case.edu.

Applications will be reviewed as they are received, and continue until the positions are filled.

Case Western Reserve, a leader among independent research universities, offers world-class academic programs in Medicine and Engineering. Case Western Reserve University is committed to Equal Opportunity and Diversity. Women and underrepresented minorities are encouraged to apply.

The Chinese University of Hong Kong

Department of Computer Science and Engineering and Department of Information Engineering
Professors / Associate Professors / Assistant Professors
(Ref. 1011/008(266)/2)

The Department of Computer Science and Engineering (CSE) and the Department of Information Engineering (IE) invite applications for several posts in all areas of ‘cyber-security’ at Assistant Professor, Associate Professor or Professor levels, including:

- system security
- network security
- theoretical and/or applied cryptography

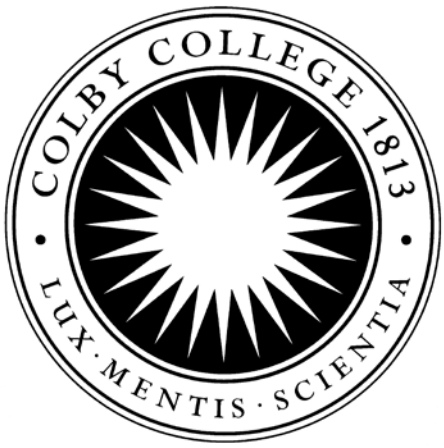
The CSE Department and the IE Department have around 30 and 25 faculty members, respectively, from leading universities and research institutions. Further information about the departments is available at <http://www.cse.cuhk.edu.hk> and <http://www.ie.cuhk.edu.hk>, respectively.

Applicants should have (i) a relevant PhD degree; (ii) strong commitment to excellence in research and teaching; and (iii) outstanding accomplishments and research potential.

The posts are available from the academic year 2011-2012, and appointments will normally be made on contract basis for up to three years initially commencing August 2011, which, subject to performance and mutual agreement, may lead to longer-term appointment or substantiation later.

Applications will be accepted until the posts are filled.

Continued on page 8



One Year Visiting Faculty Position
Computer Science
Colby College

Colby College invites applications for a one-year, full time visiting faculty position in computer science, beginning September 1, 2011. Teaching responsibilities will include a mix of core CS courses and upper level electives.

For more information and required materials, see <http://cs.colby.edu/>. Review of applications will begin January 10, 2011 and continue until the position is filled.

Colby is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity, and strongly encourages applications and nominations of persons of color, women, and members of other under-represented groups.

Professional Opportunities

Salary and Fringe Benefits
Salary will be highly competitive, commensurate with qualifications and experience. The University offers a comprehensive fringe benefit package, including medical care, plus a contract-end gratuity for appointments of two years or longer, and housing benefits for eligible appointees.

Further information about the University and the general terms of service for appointments is available at <http://www.cuhk.edu.hk/personnel>. The terms mentioned herein are for reference only and are subject to revision by the University.

Application Procedure
Please send full resume with a cover letter, a teaching statement, a research statement, together with names, addresses and fax numbers/e-mail addresses of at least three referees to whom the applicants' consent has been given for their providing references, in .pdf format via e-mail to recruit@erg.cuhk.edu.hk

The Personal Information Collection Statement will be provided upon request. Please quote the reference number and mark 'Application - Confidential' on cover.

The College of William & Mary *Faculty Position in Computer Science*

We invite applications for a tenure-track assistant professor position in Computer Science for Fall 2011. We are interested in individuals with research expertise in software engineering, programming languages, or compiler construction, but exceptional applicants from other areas of computer science will be considered.

The College of William & Mary, consistently ranked in the elite group of the Best National Universities-Doctoral by U.S. News and World Report, has committed to a multi-year effort to strengthen its computer science research program and, as a consequence, the department has been the home of multiple NSF CAREER Awards. Teaching loads are competitive with top research computer science departments in support of the department's research expectations for faculty. The department currently consists of thirteen faculty members who support B.S., M.S., and Ph.D. programs. More information about the department and university can be obtained at <http://www.cs.wm.edu>.

Applicants should submit a current resume, research and teaching statements, and the names of at least three references. (Post your reference list under "other doc") Applicants must apply using William & Mary's online recruitment system at: <http://jobs.wm.edu>.

Review of applications will begin December 15 and continue until the position is filled. The College is an EEO/AA employer.

Applicants must hold a Ph.D. in computer science or a related field at the time of appointment, must have a strong research record, and should have an interest in teaching.

The Hong Kong University of Science and Technology, Hong Kong *Department of Computer Science and Engineering Assistant Professor/Associate Professor/Professor*

The Department of Computer Science and Engineering will have at least two tenure-track faculty openings at the Assistant Professor/Associate Professor/Professor levels for the 2011-2012 academic year. Details of the positions can be found in the URL:

<http://www.cse.ust.hk/admin/recruitment/faculty/>

Information about our department can be found at <http://www.cse.ust.hk/>.

D. E. Shaw Group *Software Developer*

The D. E. Shaw group brings together some of the best minds in computer science, mathematics, physics, and engineering to work at the intersection of finance and technology. Members of our versatile technical staff exhibit a range of strong quantitative and programming abilities, with software developers and quantitative analysts collaborating on challenging problems that directly impact the firm's continued success.

Quality and innovation are imperative for creating computationally-intensive solutions for trading profitably in markets around the globe. Developers bring strong analytical, mathematical, and software design skills to a variety of projects, including the formulation of statistical models for our computerized trading strategies, distributed system development, real-time data analysis, and the creation of tools for advanced mathematical modeling. Technology is an integral part of virtually everything we do and our team enjoys access to some of the most advanced computing resources in the world. Successful candidates have traditionally been the top students in their programs and have extensive software development experience. We welcome outstanding candidates at all experience levels.

You can learn more about us and apply online at:

<https://www.deshaw.com/recruit/jobs/Ad/CRA/Prog>

The D. E. Shaw group is a global investment and technology development firm with more than 1,500 employees; approximately \$21 billion in investment and committed capital as of July 1, 2010; and offices in North America, Europe, the Middle East, and Asia.

Members of the D. E. Shaw group do not discriminate in employment matters on the basis of race, color, religion, gender, pregnancy, national origin, age, military service eligibility, veteran status, sexual orientation, marital status, disability, or any other protected class.

D. E. Shaw Research *Early Career Scientists and Engineers: Computational Biochemistry Research Group*

Extraordinarily gifted early career scientists and engineers are sought to join a New York-based interdisciplinary research group pursuing an ambitious, long-term project aimed in part at fundamentally transforming the process of drug discovery. The group's current research activities include the discovery and development of innovative scientific techniques to direct unprecedented computational power toward the solution of key problems in the fields of biomolecular simulation and design. Successful candidates will work closely with a number of the world's leading biologists, chemists, and computer scientists, and will have the opportunity not only to participate in an exciting entrepreneurial venture with considerable economic potential, but to make groundbreaking contributions within the fields of biology, chemistry, and medicine.

D. E. Shaw Research is seeking scientists and engineers with zero to five years of experience who have degrees in chemistry, biology, physics, computer science, engineering, and mathematics from top-tier universities. Serious consideration will be given to candidates with extraordinary records of achievement in the natural sciences and/or scientific programming, exceptional quantitative abilities, and superb communication

skills. We are prepared to offer above-market compensation to candidates of truly exceptional ability.

To submit an application, please use the link provided below:

<http://www.deshawresearch.com/recruit/jobs/Ads/CRA/SA>
EOE

Dartmouth College *The Neukom Institute for Computational Science Department of Computer Science Tenure-Track Faculty Position*

The Neukom Institute for Computational Science and the Department of Computer Science at Dartmouth College invite applications for a tenure-track faculty position at the level of Assistant Professor in the Department of Computer Science. We seek candidates in the area of computational biology and bioinformatics whose research focuses on the development and application of new computational methods. Candidates will complement a growing program in computational biology within the Departments of Biology, Computer Science, Engineering Sciences, and Mathematics, as well as the Dartmouth Medical School.

The Neukom Institute for Computational Science (www.dartmouth.edu/~neukom) is an endowed institute whose broad mandate is to inspire and support computational science across the Dartmouth campus. The Institute has considerable financial and computing resources that will be available to the successful candidate. The Department of Computer Science (www.cs.dartmouth.edu) is home to 17 tenured and tenure-track faculty whose research spans computational biology, vision/graphics, machine learning, algorithms, theory, and systems. The department has strong Ph.D. and M.S. programs, outstanding undergraduate majors and minors, and is affiliated with an M.D./Ph.D. program.

Dartmouth is an Ivy League school situated in Hanover, on the Connecticut River, in the Upper Valley region of New Hampshire. It is a beautiful, historic campus, located in a scenic, year-round, outdoor recreational area. Dartmouth hosts an annual film festival; renowned musical and theatrical performers; and convenient public transportation to Boston and New York, as well as local airports.

Applicants are invited to send their CV, research statement, teaching statement, and names of at least four references, one of whom should comment about teaching. All material should be sent to search@cs.dartmouth.edu by December 1, 2010.

All letters of recommendation should be emailed or mailed by the recommender to:

Search
6211 Sudikoff Lab
Computer Science Department
Dartmouth College
Hanover, NH 03755
by the recommender themselves
Direct inquiries may be sent to Professor Hany Farid (farid@cs.dartmouth.edu).

Dartmouth is an equal opportunity/affirmative action employer and encourages applications from women and members of minority groups.

Duke University *Department of Computer Science Tenure-Track Faculty Positions*

The Department of Computer Science at Duke University invites applications and nominations for tenure-track faculty positions at an assistant professor level, to begin August 2011. We are interested

in strong candidates in all active research areas of computer science ~ including algorithms, artificial intelligence, computer architecture, computer vision, database systems, distributed systems, machine learning, operating systems, optimization, programming languages, and security ~ as well as interdisciplinary areas such as computational economics and computational biology.

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

A successful candidate must have a solid disciplinary foundation and demonstrate promise of outstanding scholarship in every respect, including research and teaching. Please refer to www.cs.duke.edu for information about the department and to www.provost.duke.edu/faculty/ for information about the advantages that Duke offers to faculty.

Applications should be submitted online at www.cs.duke.edu/facsearch. A Ph.D. in computer science or related area is required. To guarantee full consideration, applications and letters of reference should be received by November 1, 2010.

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.

eBay *Machine Learning Engineer*

Job Description
eBay is a leading online Marketplace with a breadth of products available on the site. Our team is building some exciting next generation technology to profile eBay's inventory and to build Inventory Intelligence capabilities and services as part of the Analytics Platform group.

This is a great opportunity to apply your software development and machine learning skill to real world problems that require defining and implementing state of the art techniques for mining and understanding massive amount of unstructured (free form text description), semi-structured (user behavior) and structured (catalog) data.

This position requires a self-starter attitude and an ability to handle ambiguity and working closely with a number of technical and non-technical teams distributed across the world.

If this sounds like an exciting challenge to you, you may be the perfect person we are looking for.

Besides possessing rock-solid software engineering skills and a passion for excellence, you need to be an innovative thinker, effective communicator and a team player with the ability to work with dynamic teams in an agile and fast paced environment.

Primary Responsibilities
Architect, design and implement machine learning applications through all phases of the Product Development Life Cycle.

Help determine technologies/data mining modeling strategy to use to solve specific business problems.

Develop extensible, scalable, reliable, product quality software.

Interact with other teams to define interfaces and understand dependencies.

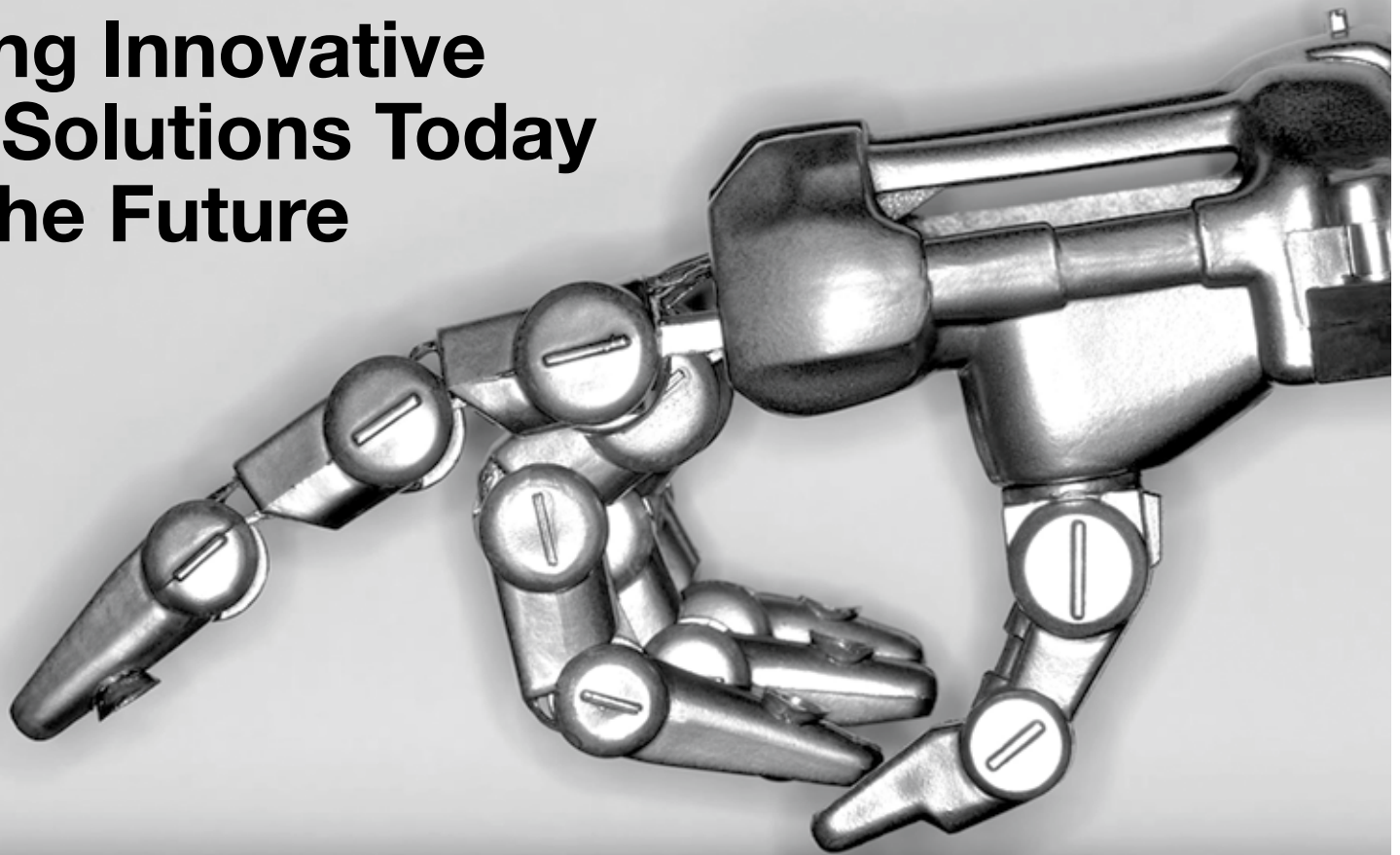
Write detailed technical documents.

Job Requirements

Strong Software development skills (C/C++, Python, Perl Java, SQL, etc)

Professional Opportunities

Creating Innovative Solutions Today for the Future



Be part of this exciting opportunity to produce pioneering research in information systems that will usher in a new era of technological applications. Revolutionize information technology and designs to build a whole new way of life by developing the next generation of technological leaders.

The Singapore University of Technology and Design (SUTD), established in collaboration with the Massachusetts Institute of Technology (MIT), is seeking exceptional faculty members in the area of Information Systems Technology and Design for this new university slated to matriculate its first intake of students in April 2012.

SUTD, the first university in the world with a focus on design accomplished through an integrated multi-disciplinary curriculum, has a mission to advance knowledge and nurture technically grounded leaders and innovators to serve societal needs. SUTD is characterized by a breadth of intellectual perspectives (the “university”), a focus on engineering foundations (“technology”) and an emphasis on innovation and creativity (design). The University’s programmes are based on four pillars leading to separate degree programmes in Architecture and Sustainable Design, Engineering Product Development, Engineering Systems and Design, and Information Systems Technology and Design. Design, as an academic discipline, cuts across the curriculum and will be the framework for novel research and educational programmes.

MIT’s multi-faceted collaboration with SUTD includes the development of new courses and curricula, assistance with the early deployment of courses in Singapore, assistance with faculty and student recruiting, mentoring, and career development, and collaborating on a major joint research projects, through a major new international design centre and student exchanges. Many of the newly hired SUTD faculty will spend up to year at MIT in a specially tailored programme for collaboration and professional development.

FACULTY MEMBERS (INFORMATION SYSTEMS TECHNOLOGY AND DESIGN)

The qualifications for the faculty position include: an earned doctorate in Computer Science, Computer Engineering or Information Systems, a strong commitment to teaching at the undergraduate and graduate levels, a demonstrated record of or potential for scholarly research, and excellent communication skills. We invite applications for faculty appointments at all levels, with many opportunities available in particular at the Assistant and Associate Professor levels. Duties include teaching of graduate and undergraduate students, research, supervision of student research, advising undergraduate student projects, and service to SUTD and the community. Faculty will be expected to develop and sustain a strong research programme. Attractive research grant opportunities are also available.

Successful candidates can look forward to internationally competitive remuneration, and assistance for relocation to Singapore.

If you want to be part of the founding faculty with a focus on Information Systems Technology and Design, please apply to SUTD at www.sutd.edu.sg/careers.htm



**SINGAPORE UNIVERSITY OF
TECHNOLOGY AND DESIGN**
Established in collaboration with MIT

Professional Opportunities

Strong understanding of Object Oriented Programming.

Good understanding of algorithms, data structures, performance optimization techniques

Experience with agile software development methodology (Scrum).

Experience building large scale production applications with exposure to the software development life cycle is a must.

Hand on experience in lexical parsing a plus.

Background in data mining, NLP and machine learning using statistical techniques is preferred.

Experience in grid computing/large scale clusters (Hadoop...) a plus

Experience in dealing with large volume of structured and unstructured data is a plus.

Experience working with fast paced environment. 5+ years of related experience.

Master in Computer Science/PhD

Contact:
Sonali Bhushan, sbhushan@ebay.com

FX Palo Alto Laboratory

Research Scientists

About FXPAL

FX Palo Alto Laboratory (FXPAL) conducts multimedia, document services technology, and communication and collaboration research for Fuji Xerox Co., Ltd., a joint venture between Xerox Corporation of America and FujiFilm of Japan. FXPAL's mission is to research and invent new technologies, cooperate with FX business units to develop and transition technologies into products, and interact with the US software industry to discover new products for the Fuji Xerox market.

Research opportunities at FXPAL

FXPAL has immediate openings for permanent employees and visiting scientists with research interests in the following areas: cloud computing, computer vision, multimedia applications, location-aware and event-processing applications, interactive documents, mixed reality environments, and database systems.

Candidates should be interested in working on practical applications in a collaborative setting. Permanent positions require a Ph.D. in Computer Science or related field and strong development skills. Visiting Scientist positions require an extensive record of research contributions and experience.

To apply, please email your resume to: fxpalresumes@fxpal.com.

We are an equal opportunity employer and value diversity in the workplace.

Georgia Institute of Technology

College of Computing
Tenure-Track Faculty Positions

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

We encourage applications from all areas of computational science and engineering. Applicants with expertise in areas related to high-performance computing, scientific computing, large-scale machine learning and data analytics, visualization, bioinformatics and computational systems biology are especially encouraged to apply.

Applications will be considered until open positions are filled, however, to receive full consideration, applications

should be submitted online through <https://recruiting.cc.gatech.edu/cse> by January 9, 2011. The application material should include a full academic CV, teaching and research statements, a list of at least three references and up to three publications.

Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their research interests. Georgia Tech is an Affirmative Action/Equal Opportunity Employer. Applications from women and under-represented minorities are strongly encouraged.

Georgia State University

Department of Computer Science
Full Professor

The Department of Computer Science of Georgia State University invites applications for an anticipated position of Full Professor (possibly Eminent Scholar) in the bioinformatics area beginning the Fall semester, 2011, pending budgetary approval. Earned Ph.D. in Computer Science or a related discipline is required. An offer of employment will be conditional on background verification.

Prospective candidates should demonstrate ability to bring national and international recognition to the department as a center of excellence for bioinformatics research and education. The hired eminent scholar is expected to bring in major extramural funding, mentor junior faculty, recruit top quality PhD students, and foster interdisciplinary collaborations amongst faculty in various departments in GSU.

Georgia State University, founded in 1913, is a Carnegie Doctoral/Research Extensive university. Located in the heart of downtown Atlanta, this major research university has an enrollment of more than 30,000 undergraduate and graduate students in six colleges. Georgia State is the second largest university in the state, with students coming from every county in Georgia, every state in the nation and from over 145 countries. Georgia State University is currently embarking on a record \$1 billion campus expansion. The Computer Science Department offers programs leading to the B.S., M.S., and Ph.D. degrees in computer science. Currently, 20 out of more than 60 Ph.D. students are involved in bioinformatics research. They are supervised by 10 faculty members fully or substantially involved in bioinformatics research through collaboration with Computer Science and Biology faculty. Departmental computing facilities for research and instruction include a departmental network of PCs, Unix/Linux workstations, two interconnected Beowulf clusters, and a 24-processor supercomputer. The department's faculty attracts substantial from many federal agencies including five NSF CAREER Awards.

Applicants should send letter of interest, C.V., and three letters of recommendation to:

Dr. Yi Pan, Chair
Department of Computer Science
Georgia State University
34 Peachtree Street, Suite 1450
Atlanta, Georgia, 30303
Applications can also be sent via email to pan@cs.gsu.edu and will be accepted until position is filled.

Georgia State University, a Research University of the University System of Georgia, is an AA/EEO employer.

Harvard University

Harvard School of Engineering and Applied Sciences
Tenure-Track Professor in Computer Science

The Computer Science program at Harvard benefits from its outstanding

undergraduate and graduate students, an excellent location, significant industrial collaboration, and substantial support from the Harvard School of Engineering and Applied Sciences.

We invite applications for a position as a tenure-track professor in Computer Science. The appointment is expected to begin on July 1, 2011.

We welcome outstanding applicants in all areas of computer science. We are particularly interested in areas related to machine learning, probabilistic modeling, and artificial intelligence. In terms of applications, areas of interest include computational science, engineering, or the social sciences. We encourage applications from candidates whose research examines computational issues raised by very large data sets or massively parallel processing.

Candidates should have an outstanding research record and a strong commitment to undergraduate teaching and graduate training. Applicants must have completed a Ph.D. by September 1, 2011. Information about Harvard's current faculty, research, and educational programs is available at: <http://www.seas.harvard.edu/teaching-learning/areas/computer-science>

Candidates should send, ideally as a single PDF document, a curriculum vitae, a list of publications, a statement of research and teaching interests, and up to three representative papers to the following email address: cs-search@seas.harvard.edu. In addition, candidates should have at least three letters of reference sent to the above address.

Alternatively, material may also be sent via surface mail to:

CS Search Committee
Harvard School of Engineering and Applied Sciences
Harvard University
Maxwell Dworkin 153
33 Oxford Street
Cambridge, MA 02138

Applications will be reviewed as they are received. For full consideration, applications should be received by December 1, 2010.

Harvard is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are strongly encouraged.

Indiana University

School of Informatics and Computing
Two Positions

The School of Informatics and Computing at Indiana University, Bloomington, invites applications for two positions beginning in Fall 2011.

Senior Faculty Position in Systems

This position is in systems, broadly encompassing parallel computing and architectures, distributed systems, cyberinfrastructure, and networking. Applicants are expected to have a well-established track record of substantial research contributions to their field, externally funded research, and leadership.

Faculty Position in Complex Networks and Systems

This position is at the junior level but outstanding senior candidates may be considered. Research areas include complex networks, computational biology and epidemiology, artificial life and robotics, computational intelligence, bio-inspired computing, large scale data modeling and simulation, and Web applications, with special interest in modeling the dynamics of complex information networks, social networks and media, and the spread of ideas and disease in human and social systems.

Applicants for either position should have a Ph.D. in Computer Science

or another relevant area and a well-established record (senior level) or demonstrable potential for excellence in research and teaching (junior level).

The IU Bloomington School of Informatics and Computing is the first of its kind and among the largest in the country, with a faculty of more than 60 full time members, more than 400 graduate students, and strong undergraduate programs. Degrees offered include M.S. degrees in Computer Science, Bioinformatics, Human Computer Interaction Design, and Security Informatics, and Ph.D. degrees in Computer Science and in Informatics. The School has received public recognition as a "top-ten program to watch" (Computerworld) thanks to its excellence and leadership in academic programs, interdisciplinary research, placement, and outreach. The school offers excellent work conditions, including attractive salaries and research support, and low teaching loads in a setting of strong student growth.

Located in the wooded, rolling hills of southern Indiana, Bloomington is a culturally thriving college town with a moderate cost of living and the amenities for an active lifestyle. IU is renowned for its top-ranked music school, high performance computing and networking facilities, and performing and fine arts.

Applicants should submit a curriculum vitae, a statement of research and teaching, and the names of six references using the recruit link at <http://hiring.soic.indiana.edu> (preferred) or by mail to the Chair of either the Systems or Complex Networks and Systems Faculty Search Committee, School of:

Informatics and Computing
919 E 10th Street
Bloomington, IN 47408

Questions concerning the Systems search may be sent to hiring-systems@informatics.indiana.edu; questions concerning the Complex Networks and Systems search to hiring-cnets@informatics.indiana.edu. To receive full consideration completed applications must be received by December 1, 2010.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged. IU Bloomington is vitally interested in the needs of Dual Career couples.

International Computer Science Institute

Networking Group
Postdoctoral Fellow

ICSI's Networking Group invites applications for a Postdoctoral Fellow in the area of applying modern compiler technology to the domain of high-performance network security monitoring. The Fellow will focus on developing strategies for compiling high-level analysis descriptions into highly optimized code for execution on current multi-core architectures. The appointment will be for one year initially, and requires a Ph.D. in computer science (or equivalent degree). ICSI is an independent nonprofit institute closely affiliated with UC Berkeley.

See <http://www.icsi.berkeley.edu/about/netjob.html> for more information.

The Johns Hopkins University

Department of Computer Science
Director of the Johns Hopkins Information Security Institute (JHUIIS)

The Whiting School of Engineering and the Department of Computer Science at The Johns Hopkins University are seeking applications for the position of Director of the Johns Hopkins Information Security Institute (JHUIIS). JHUIIS is the focal point for research and

Professional Opportunities

education on information security within the university. More information can be found at <http://web.jhu.edu/jhuisi/>

The role of the Director is to establish a research vision for the institute, to lead efforts to expand the current core and applied research programs, and to manage and expand JHUISI education programs. The Director will work with the leadership of the school and the university to establish JHUISI as a world-wide leader in information security and its applications. This growth will be leveraged through establishment of partnerships with other units such as the Johns Hopkins Medical school (healthcare security) and the Johns Hopkins Applied Physics Laboratory (information assurance).

The Director of JHUISI should be an individual with an established record of exceptional achievement in computer security, trusted computing, information assurance, or a closely related area, and a proven record of academic and administrative leadership. All applicants must have a Ph.D. in Computer Science or a related field and are expected to show evidence of an 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. Preference will be given to applications at the full professor level. The School is committed to building a diverse educational environment; women and minorities are especially encouraged to apply.

Applicants should apply using the online application which can be accessed from <http://www.cs.jhu.edu/apply>. Applications should be received by January 1, 2011 for full consideration. Questions should be directed to fsearch@cs.jhu.edu. The Johns Hopkins University is an EEO/AA employer.

The Johns Hopkins University
Department of Computer Science
Tenure-Track Faculty Positions

The Department of Computer Science at The Johns Hopkins University is seeking applications for tenure-track faculty positions. The search is open to all areas of Computer Science, with a particular emphasis on candidates with research interests in machine learning, theoretical computer science, computational biology, computational aspects of biomedical informatics, or other data-intensive or health-related applications.

All applicants must have a Ph.D. in Computer Science or a related field and are expected to show evidence of an 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. Preference will be given to applications at the assistant professor level, but other levels of appointment will be considered based on area and qualifications. The Department is committed to building a diverse educational environment; women and minorities are especially encouraged to apply. A more extensive description of our search can be found at:

<http://www.cs.jhu.edu/Search2011>
More information on the department is available at <http://www.cs.jhu.edu>.

Applicants should apply using the online application which can be accessed from <https://academicjobsonline.org/ajo/jobs/406> (for full consideration, by December 1, 2010). Questions should be directed to 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
Johns Hopkins University
Department of Computer Science
Room 224 New Engineering Building
Baltimore, MD 21218-2694
Fax: 410-516-6134
Phone: 410-516-8775
fsearch@cs.jhu.edu
<http://www.cs.jhu.edu/apply>

Massachusetts Institute of Technology
Department of Electrical Engineering and Computer Science (EECS)
Faculty Positions

The Department of Electrical Engineering and Computer Science (EECS) seeks candidates for faculty positions starting in September 2011. Appointment would be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment may be possible. Faculty duties include teaching at the graduate and undergraduate levels, research, and supervision of student research. We will consider candidates with backgrounds and interests in any area of electrical engineering and computer science. Faculty appointments will commence after completion of a doctoral degree.

Candidates must register with the EECS search website at <https://eecs-search.eecs.mit.edu>, and must submit application materials electronically to this website. Candidate applications should include a description of professional interests and goals in both teaching and research. Each application should include a curriculum vitae and the names and addresses of three or more individuals who will provide letters of recommendation. Candidates should request that their letter writers submit recommendation letters directly to MIT on the website above. Please submit complete application by December 15, 2010.

Send all materials not submitted on the website to:

Professor W. Eric L. Grimson
Department Head, Electrical Engineering and Computer Science
Massachusetts Institute of Technology
Room 38-401
77 Massachusetts Avenue
Cambridge, MA 02139
M.I.T. is an equal opportunity/affirmative action employer.

Max Planck Institute for Software Systems (MPI-SWS)
Tenure-Track Openings

Applications are invited for tenure-track and tenured faculty positions in all areas related to the study, design, and engineering of software systems. These areas include, but are not limited to, data and information management, programming systems, software verification, parallel, distributed and networked systems, and embedded systems, as well as cross-cutting areas like security, machine learning, usability, and social aspects of software systems.

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. 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 supervise doctoral theses, and have the opportunity to teach graduate and undergraduate courses.

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

MPI-SWS currently has 8 tenured and tenure-track faculty, and is funded to support 17 faculty and about 100 doctoral and post-doctoral positions. Additional growth through outside funding is possible. 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 3, 2011, and applicants are strongly encouraged to apply by that date; however, applications will continue to be accepted through January 2011.

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

Michigan Technological University
Department of Computer Science
Department Chair

Michigan Technological University invites applications and nominations for the position of Chair of the Department of Computer Science. The chair will be expected to build on a strong undergraduate degree program and continue the development of graduate education and research programs. Candidates are expected to have a professional record of accomplishments commensurate with the rank of full professor at Michigan Tech, including a record of high quality publications and external funding. Candidates must also have demonstrated administrative, supervisory, or leadership experience.

The Computer Science Department has 325 undergraduate majors in three BS degree programs and 50

graduate students in MS and PhD degree programs in Computer Science and in the Computational Science and Engineering PhD program. The research interests of the 17 faculty include both core areas of computer science and interdisciplinary topics. The Department has close ties to the Department of Electrical and Computer Engineering and offers many courses required by the Computer Engineering, Bioinformatics, and Cheminformatics BS degree programs.

The University has approximately 7,000 students and 400 faculty with educational and research programs that emphasize solving technological problems in all aspects of life. Michigan Tech is located in Michigan's scenic Upper Peninsula and is bounded by Lake Superior and nearby forests. The community offers year-round recreational and cultural opportunities. This environment, combined with a competitive compensation package, provides an excellent quality of life.

In addition to the present search, strategic faculty hiring initiatives with up to ten new positions in "Next Generation Energy Systems" and "Health: Basic Sciences, Technologies, and Medical Informatics" are in their second year. Qualified candidates are encouraged to send a separate application, following the "How to Apply" guidelines at <http://www.mtu.edu/sfhi>.

Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM.

Applications must include a vita, list of references, and a cover letter that addresses the candidate's professional qualifications and administrative philosophy. Applications received by November 15, 2010, are assured of full consideration. Applications must be submitted by email to: CSChairSearch@mtu.edu.

To learn more about this opportunity, please visit:

<http://www.cs.mtu.edu/CSChairSearch.html>

or contact:
Prof. Steven Seidel
steve@mtu.edu
Department of Computer Science
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931-1295
Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

Middlebury College
Department of Computer Science
Faculty Position

Middlebury College invites applications for a three-year faculty position in computer science, at the rank of Visiting Assistant Professor, beginning September 2011. Specialization is open, with preference for candidates working in systems or interdisciplinary areas.

For more information, see <http://www.cs.middlebury.edu/job>. Review of applications will begin October 15, 2010, and continue until the position is filled.

Middlebury College is an Equal Opportunity Employer, committed to hiring a diverse faculty to complement the increasing diversity of the student body.

New Mexico State University
Computer Science Department
Tenure-Track Position - Requisition #2010005689

The Computer Science Department at New Mexico State University invites applications for a tenure-track position

Professional Opportunities



RightNow Technologies
Professorships
Computer Science
Montana State University

The Montana State University Computer Science Department is searching for two faculty members at either the Assistant, Associate or Full level, based on experience. Candidates at the Associate or Full level must have established or rising prominence in their field. A three-year start-up package is being provided by RightNow Technologies, a leading provider of next-generation Customer Relationship Management solutions to more than 2,000 companies and government agencies worldwide. RightNow is based in Bozeman.

The department prides itself on its growing research endeavors and its innovative curriculum. It attracts highly capable students, including five recent Goldwater scholars and five recent *USA Today* Academic All Americans. Montana State University is a Carnegie Foundation RU/VH research university with an enrollment of approximately 13,000.

Montana State University attracts high quality students, faculty, and staff who are drawn to an institution that has a reputation for excellence and is located in a spectacular Rocky Mountain setting. The flagship campus is located in Bozeman. This community affords an unparalleled quality of life. It is a rare small town that encompasses the energy and cultural offerings of an urban area, but has a friendly, casual ambience. Surrounded by four mountain ranges, national forests, spectacular ski resorts and blue-ribbon trout streams, the area offers an active and inspiring lifestyle. From outdoor recreation to cultural experiences and a thriving business community, Bozeman has it all.

The website www.cs.montana.edu/faculty-vacancies has information on position requirements and application procedures. ADA/EO/AA/Veterans Preference.

at the assistant professor level, with appointment starting in the Fall 2011 semester. We are seeking strong candidates in any areas of Computer Science, although applications with expertise in computer architecture, operating systems, compilers, and computer graphics/animation are particularly encouraged. Applications from women and members of traditionally under-represented groups are strongly 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 evidence of excellence in research and teaching. We particularly solicit applications from candidates with attitude for collaborative research, whose research foci can complement the existing expertise in the department. The successful candidate will be expected to develop an independent research program, collaborate in research projects with other faculty members, and teach graduate and undergraduate courses in Computer Science.

The Department has strong research and educational programs, especially in the areas of knowledge representation, software engineering, computer networks, bioinformatics, data mining, game design, and theoretical computer science. The Department has an extensive computing infrastructure, which includes several parallel and distributed platforms. The Department offers B.S, B.A., M.S., and Ph.D. degrees in Computer Science, and participates in inter-disciplinary research and educational programs.

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). NMSU has ties to Sandia and Los Alamos National Laboratories, and the White Sands Missile Range. 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 three letters of reference. Electronic submissions to <http://www.cs.nmsu.edu/~cssearch> are requested. For any questions, please contact the CS Faculty Search Chair, Dr. Son Cao Tran at cssearch@cs.nmsu.edu or calling 575-646-1930. Screening will begin November 15, 2010. Applications received after this date may still be considered.

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/Courant
Institute of Mathematical
Sciences
Department of Computer Science
Faculty

The department expects to have several regular faculty positions beginning in September 2011 and invites candidates at all levels. We will consider outstanding candidates in any area of computer science, with systems and formal methods/verification 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 32 regular faculty members and several clinical, research, adjunct, and visiting faculty members. The department's current research interests include algorithms, cryptography and theory; computational biology; distributed computing and networking; graphics, vision and multimedia; machine learning; natural language processing; 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, and Siemens.

Please apply at <https://cs.nyu.edu/webapps/facapp/register>

To guarantee full consideration, applications should be submitted no later than December 1, 2010; however, this is not a hard deadline, as all candidates will be considered to the full extent feasible, until all positions are filled. Visiting positions may also be available.

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

North Carolina State University
Department of Computer Science
Faculty Positions

The Department of Computer Science at NC State University (NCSU) seeks to fill multiple tenure track faculty positions starting August 16, 2011. Exceptional candidates in all areas of Computer Science will be considered, but of particular interest are candidates specializing in Computer and Network Security.

Successful candidates must have a strong commitment to academic and research excellence, and an outstanding research record commensurate with the expectations of a major research university. Required credentials include a doctorate in Computer Science or a related field.

While the department expects to hire faculty primarily at the Assistant Professor level, candidates with exceptional research records are encouraged to apply for senior positions. The Department is one of the largest and oldest in the country. It is part of NCSU's College of Engineering, which has recently received significant increases in private and public funding, faculty positions, and facilities that will assist the Department in achieving its goals. The department's research expenditures and recognition are growing steadily. For example, we have one of the largest concentrations in the country of prestigious NSF Early Career Award winners (total of 20).

NCSU is located in Raleigh, the capital of North Carolina, which forms one vertex of the world-famous Research Triangle Park (RTP). RTP is an innovative environment, both as a metropolitan area with one of the most diverse industrial bases in the world, and as a center of excellence promoting technology and science. The Research Triangle area is routinely recognized in nationwide surveys as one of the best places to live in the U.S. We enjoy outstanding public schools, affordable housing, and great weather, all in proximity to the mountains and the seashore.

Applications will be reviewed as they are received. The positions will remain open until suitable candidates are

identified. Applicants are encouraged to apply by December 15, 2010. Applicants should submit the following materials online at <http://jobs.ncsu.edu> (reference position number 1091) cover letter, curriculum vitae, research statement, teaching statement, and names and complete contact information of four references, including email addresses and phone numbers. Candidates can obtain information about the department and its research programs, as well as more detail about the positions advertised here at <http://www.csc.ncsu.edu/>. Inquiries may be sent via email to:

facultyhire@csc.ncsu.edu.

North Carolina State University is an equal opportunity and affirmative action employer. In addition, NC State University welcomes all persons without regard to sexual orientation. Individuals with disabilities desiring accommodations in the application process should contact the Department of Computer Science at (919) 515-2858.

Nova Southeastern University
Graduate School of Computer and
Information Sciences
Associate and Full Professor (multiple
positions)

The Graduate School of Computer and Information Sciences at Nova Southeastern University invites applications from faculty candidates with the ability to establish externally funded research programs in ICT fields. All areas of specialization will be considered but preference will be given to: information security and assurance, knowledge management, information architecture, healthcare information systems, and data mining/business intelligence.

Appointments will be made at the associate and full professor levels. For more information about the School, the university, the application process and details about the positions, please visit:

<http://www.scis.nova.edu/recruiting.html>

The deadline to apply is November 15, 2010. AA/EOE.

Oak Ridge National Laboratory
(ORNL)
Cyberspace Sciences and Information
Intelligence Research Group
Computer Vision Postdoctoral Research
Associate

Oak Ridge National Laboratory (ORNL) is seeking a candidate for a Director of National Intelligence Post Doctoral Research Fellow. This two-year postdoctoral research position will provide full funding for a researcher in machine learning, computer vision, or a related field to research methods for audio-visual processing with an emphasis on extracting features from stationary human subjects in audio-visual recordings. The resulting research products will have direct application to the Intelligence Community and will help enhance our national security.

Exceptional individuals may be offered further employment with ORNL following the postdoctoral appointment.

Qualifications:

Candidates must have a Ph.D. in Computer Science, Mathematics, or a related field, with a strong background in computer vision or machine learning. Interest in applied psychology is preferred.

Applicants must be U.S. citizens, and cannot have received their most recent degree more than five years prior to the date of application. All degree requirements must be completed before starting the appointment.

Technical Questions:

Questions regarding the position can be directed to Erik Ferragut at Ferragutem@ornl.gov.

Professional Opportunities

How to Apply:
For a complete job description and to apply online visit:
https://www2.ornl.gov/ORNL_POST/PostingDetailsView.aspx?ref=ORNL10-133-CSED

Oakland University
Computer Science and Engineering Department
Tenure-Track Assistant Professor Position

The Department of Computer Science and Engineering has an immediate need to fill a tenure-track assistant professor position beginning January 1, 2011. Applicants must have completed a Ph.D. in Computer Science, Information Technology, Computer Engineering or a closely related field by the appointment date. Candidates must show exceptional promise in both research and teaching. Desired areas of interest include information assurance and security, server technology and enterprise computing, and, parallel and multicore programming.

Applications should be submitted by November 15, 2010. Applicants should send a letter of intent, a statement of research and teaching interests, resume, and the names of three references to:

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

The teaching statement should include a list of undergraduate and graduate courses that the applicant will be willing to teach as well as outlines of two courses that the applicant would like to introduce. Information about the current courses offered by the department is available on departmental web.

For information about the department and Oakland University, please visit the respective homepages.

Oakland University is an equal opportunity employer.

The Ohio State University
Dept. of Computer Science and Engineering
Assistant Professor

The Department of Computer Science and Engineering (CSE), at The Ohio State University, anticipates significant growth in the next few years. This year, CSE invites applications for four tenure-track positions at the Assistant Professor level. Priority consideration will be given to candidates in database systems, graphics & animation, machine learning, and networking. Outstanding applicants in all CSE areas (including software engineering & programming languages, systems, and theory) will also be considered.

The department is committed to enhancing faculty diversity; women, minorities, and individuals with disabilities are especially encouraged to apply.

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

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

<http://www.cse.ohio-state.edu/departments/positions.shtml>

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

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

Oklahoma State University
Computer Science Department
Faculty Position

Applications are invited for two anticipated full-time, tenure-track Assistant Professor positions.

The term of initial appointment will begin in August 2011. The Oklahoma State University Computer Science Department is seeking applications from qualified candidates with teaching and research experience in any area of Computer Science. A Ph.D. or D.Sc. in Computer Science or a closely related area is required.

The positions being sought are for the Stillwater campus and duties may be assigned to either Stillwater or Tulsa campuses or both. Please send curriculum vitae, a statement of teaching and research experience, and names of three references to:

Chair, Faculty Search Committee
Computer Science Department
219 MSCS Building
Oklahoma State University
Stillwater, OK 74078-1053

Application via e-mail with pdf attachment(s) is preferred.

Send e-mail to faculty-search2010@cs.okstate.edu

For full consideration, applications should be received by December 20, 2010, but applications will be accepted until the positions are filled. These positions are contingent upon available funding. Oklahoma State University is an Affirmative Action/Equal Opportunity/E-Verify employer committed to diversity. OSU-Stillwater is a tobacco-free campus.

Oklahoma State University is a modern comprehensive land grant university that serves the state, national and international communities by providing its students with exceptional academic experiences, by conducting scholarly research and other creative activities that advance fundamental knowledge, and by disseminating knowledge to the people of Oklahoma and throughout the world.

The OSU System comprises OSU-Stillwater, OSU-Tulsa, OSU-Oklahoma City, OSU-Okmulgee, the OSU Center for Health Sciences in Tulsa, the OSU College of Veterinary Medicine, the Oklahoma Agricultural Experiment Station and the Oklahoma Cooperative Extension Service.

Peking University
The School of EECS
Tenure-Track Positions

The School of EECS at Peking University invites applications for tenure-track positions in the areas of energy efficient computing (including but not limited to energy-efficient computing and communication architectures, compilation, and system software) and applications (such as smart grid, mobile computing, sensor networks, and hardware acceleration of computing-intensive applications). These positions are associated with the newly established Center for Energy-Efficient Computing and Applications, which offers a new level of startup and compensation packages. Applications from distinguished candidates at senior levels are also encouraged.

To apply, please email the resume, statements of research and teaching, and at least three names for references to Dr. Tao Wang wangtao@pku.edu.cn. Applications received by January 15, 2011 will be given full consideration.

Princeton University
Department of Computer Science
Postdoctoral Researcher

The Department of Computer Science at Princeton University, in

conjunction with the Department of Psychology, is looking for a postdoctoral researcher for an exciting project at the intersection of statistical machine learning and neuroscience. This is a one year (renewable) position. The position involves developing models and algorithms to help us explain human memory data. Specifically, we will be developing new hierarchical Bayesian models for simultaneously analyzing brain imaging data, corpus statistics, and behavioral data.

The ideal candidate will be comfortable with a subset of the following:

- hierarchical Bayesian modeling and posterior inference
- topic modeling
- brain imaging data
- massive data sets

- human memory research

PhD in Computer Science, Engineering, Neuroscience, Psychology, Cognitive Science, Statistics or other related field is required.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

You may apply online at <http://jobs.princeton.edu>

Requisition Number: 1000680

Rice University
Department of Computer Science
Post Doctoral Research Associate (#11060)

This research position is in the Machine Learning group of the PACE project. For a summary of the PACE project and its goals, including the goals and research efforts of the Machine Learning (ML) group, please visit <http://pace.rice.edu>.

The primary responsibility of this position involves a significant role to identify problems and opportunities in optimizing compilers where Machine Learning techniques could be used effectively. The candidate will then collaborate with Machine Learning experts to apply ML techniques to address these problems.

The secondary responsibility of this position involves technical writing, such as authoring scientific publications, documenting infrastructure design, experiment methodology, and research results. Responsibilities also include designing and delivering presentations to funding agencies, internal and external reviewers, and in technical conferences.

The initial appointment for this position is for one year. The position may be extended depending on the availability of funding.

In order to be considered for this position, applicants must complete the online application and attach a required resume and cover letter at the following link:

<https://jobs.rice.edu/applicants/>

Rice University
Department of Computer Science
Post Doctoral Research Associate (#11043)

The Machine Learning Group of the DARPA funded research project PACE (Platform Aware Compiler Environment, <http://pace.rice.edu/>) is looking for a Post Doctoral Fellow to work on developing machine learning solutions to compiler optimization problems.

The Post Doctoral Research Associate will perform scientific research in neural and other machine learning, conduct independent experimental studies, facilitate other ongoing research, and develop and validate new protocols.

She/he will work under the general direction of, and report directly to, Dr. Erzsebet Merenyi, Co-lead of the Machine Learning Group (<http://pace.rice.edu/Content.aspx?id=50>) of the PACE project.

The successful candidate will be an energetic individual, quick and enthusiastic learner, willing to adapt to the changing needs of research, and will welcome challenges in developing solutions to new problems.

The initial appointment for this position is for one year. The position may be extended depending on the availability of funding.

In order to be considered for this position, applicants must complete the online application and attach a required resume and cover letter at the following link: <https://jobs.rice.edu/applicants/Central?quickFind=52470>

If you have any questions please let us know at jobs@rice.edu. Rice University is an affirmative action/equal opportunity employer.

Rice University
Department of Computer Science
Tenure-Track Assistant Professor

The Department of Computer Science at Rice University seeks applications for a tenure-track assistant professor position to start in July 2011. We welcome outstanding candidates in all areas of computer science. We are particularly interested in candidates with research experience in one or more of the following areas: programming language theory, formal verification, or security. The Department and its associated research groups also have openings for lecturers and 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 must hold a Ph.D. degree or equivalent in computer science or a related discipline, or must complete the Ph.D. by November 1st of the year employment commences. A commitment to excellence in both research and teaching is required for a tenure-track appointment.

The department has access to superb computational research facilities. The university is located across the street from the Texas Medical Center, one of the premiere centers for medical research in the United States. 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 and 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, by November 15, 2010, a resume, a statement of research and teaching interests, and the names and addresses of at least three references through the Department's website, <http://csfacultyapplications.rice.edu>

If web resources are unavailable to you, please send your application materials to:

Computer Science Search Committee
Rice University, MS 132
6100 Main Street
Houston, TX 77005-1892

We will begin evaluating applications on November 15. While applications submitted after that date may be considered, we would prefer that you complete your application by November 15, 2010.

Please specify clearly in your cover letter whether you are applying for a tenure-track faculty position or a research position. More information can be found

Professional Opportunities



Assistant or Associate Professor (Tenure Track) or
Instructor (Non-Tenure Track)
CyberSecurity

Faculty Position: Develop and teach undergraduate/graduate courses and provide leadership with program development in CyberSecurity related to telecommunication networks, information systems security management, assessment and planning, network defense, internet security, computer forensics, and cyber terrorism. Start date is fall semester 2011. To ensure full consideration, applications must be received by December 15, 2010. To review full position announcement visit:
<http://www4.semo.edu/humanresources/faculty/positions/>

AN EQUAL OPPORTUNITY, AFFIRMATIVE ACTION EMPLOYER

on our web site, <http://www.cs.rice.edu> or by contacting Jennifer Harris at 713-348-5198.

Rice University is an Equal Opportunity/Affirmative Action Employer.

If you have any questions please let us know at jobs@rice.edu. Rice University is an affirmative action/equal opportunity employer.

Skidmore College
Department of Mathematics and
Computer Science
Tenure-Track Position

The Department of Mathematics and Computer Science at Skidmore College invites applications for a tenure-track position in Computer Science beginning September 2011. Qualifications include a Ph.D. in Computer Science. The appointment will be at the rank of Assistant Professor. Salary will be competitive and commensurate with experience. In addition, startup funds and pre-tenure sabbaticals are available.

A commitment to quality instruction of undergraduates and continuing scholarly achievement is essential. The department has expertise in the theory of computation, algorithms, artificial intelligence, computer vision and graphics; we hope to widen our areas of expertise with this appointment. In addition to strong disciplinary teaching and scholarship, including collaborative research with students, the College encourages interdisciplinary teaching and scholarship via participation in its First-Year Experience program and other interdisciplinary programs such as Neuroscience, Environmental Studies, and Gender Studies.

Located in the vibrant community of Saratoga Springs, New York, Skidmore College is a highly selective liberal arts college of 2400 students. The Department of Mathematics and Computer Science consists of eleven faculty members, offers both major and minor programs in Computer Science, and has its own Linux network supported by a dedicated system administrator within the department. For more detailed information, please go to: <http://cms.skidmore.edu/mcs/>.

Executive Director
Advanced Energy Research Center

Celebrating its 53rd year, Stony Brook, a member of the Association of American Universities (AAU), is one of four research-intensive campuses within the State University of New York system and one of the nation's fastest-growing centers of academic excellence. Stony Brook University currently enrolls over 25,000 students and offers approximately 260 degree programs at the baccalaureate, master's, doctoral, and professional certificate level. The 2008-2009 operating budget is \$1.9 billion; the University is Long Island's largest single-site employer, with approximately 13,000 full- and part-time employees, including 1,900 faculty members. Stony Brook operates Brookhaven National Laboratory through the SUNY Research Foundation in partnership with the Battelle Memorial Institute. Information about Stony Brook is available at www.stonybrook.edu

Stony Brook University seeks outstanding applicants for the executive director of the Advanced Energy Research and Technology Center. The Center is a partnership of academic and research institutions; energy providers and regulators; and industrial corporations. Its mission is the development of innovative energy research, policy, education, and technology-development programs with major activity in energy efficiency, conservation, renewable energy, and basic materials development for novel and improved energy sources and storage. The Center operates in close cooperation with Brookhaven National Laboratory, and its Advisory Board consists of leaders of major utilities, industry, and academic institutions. The Center is located on the North Shore of Long Island, New York, approximately 60 miles east of New York City. It will soon occupy a new 50,000 square foot energy-efficient research facility – Platinum Rated – located in a Research and Development Park adjacent to the University campus. Occupants will include basic and applied research laboratories and unique testing facilities, representatives of energy-related organizations, and incubating energy enterprises. For more information about AERTC, see www.AERTC.org

Applicants with a record of leadership and broad interests in energy research and technology development are encouraged to apply. The successful applicant should have a significant record of accomplishment in energy-related science and technology, particularly in relevant areas of engineering, nanotechnology, biotechnology, or computational science. Accomplishments should include demonstrated success in securing resources to support energy research and technology development from federal, state, industry, or private sources. Candidates should have experience in positions interacting with industry, public and political audiences, and the ability to provide leadership for interdisciplinary and multi-institutional research and development programs. Required: Master's degree. Preferred: Doctoral degree in scientific/engineering discipline strongly preferred, along with a strong relevant research record in academic or industrial settings or their equivalents. Applications will be accepted until the position is filled.

For a full position description, application procedures, or to apply online, visit www.stonybrook.edu/jobs (Jobs Reference #: WC-S-6523-10-09-S) or send a letter of application, a current C.V., and contact information for three references to: Dr. Jane Yahil, AERTC Executive Director (6523) Search, Vice President for Economic Development Office, Engineering Building, Room 100, Stony Brook University, Stony Brook, NY 11794-2200



Stony Brook University/SUNY is an equal opportunity, affirmative action employer.

Review of applications will begin December 15, 2010 and will continue until the position is filled. Applications from members of underrepresented groups are especially encouraged.

To learn more about and apply for this position please visit Skidmore's

website at: jobs.skidmore.edu/applicants/Central?quickFind=52518

Skidmore College is committed to being an inclusive campus community and, as an Equal Opportunity Employer, does not discriminate in its hiring or employment practices on the basis

of gender, race or ethnicity, color, national origin, religion, age, disability, family, veteran or marital status, sexual orientation, gender identity or expression. CREATIVE THOUGHT MATTERS.

Stanford University
Department of Computer Science
Faculty Opening

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 higher priority to the overall originality and promise of the candidate's work than to the candidate's sub-area of specialization within Computer Science.

We are seeking applicants from all areas of Computer Science, spanning theoretical foundations, systems, software, and applications. We are also interested in applicants doing research at the frontiers of Computer Science with other disciplines, especially those with potential connections to Stanford's main multidisciplinary initiatives: Energy, Human Health, Environment and Sustainability, the Arts and Creativity, and the International Initiative.

Applicants must have completed (or be completing) a Ph.D., must have demonstrated the ability to pursue a program of research, and must have a strong commitment to graduate and undergraduate teaching. 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 vita, 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.

The review of applications will begin on December 1, 2010, and applicants are strongly encouraged to submit applications by that date; however, applications will continue to be accepted at least until March 1, 2011.

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.

Swarthmore College
Department of Computer Science
Visiting Assistant Professor

Swarthmore College invites applications for a three-year faculty position in Computer Science, at the rank of Visiting Assistant Professor, beginning September 2011. Specialization is open. Review of applications will begin January 1, 2011, and continue until the position is filled.

For information, see <http://www.cs.swarthmore.edu/job>.

Swarthmore College has a strong commitment to excellence through diversity in education and employment and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and world.

Professional Opportunities

Texas A&M University
Department of Computer Science and Engineering
Senior Faculty Position

In recognition of the increasing importance of computational sciences, the Department of Computer Science and Engineering at Texas A&M University (<http://www.cse.tamu.edu>) is recruiting for a senior faculty position in computational science as broadly defined. This position is one of three new senior lines dedicated to computational science that were created as part of an initiative led by the Institute for Applied Mathematics and Computational Science (<http://iamcs.tamu.edu>). There is considerable startup funding available.

Applications are invited for a senior faculty position in computational sciences, starting fall 2011, in the Department of Computer Science and Engineering of the Dwight Look College of Engineering at Texas A&M University.

The Department of Computer Science and Engineering has 39 tenured, tenure-track faculty and four senior lecturers. Texas A&M University CSE faculty members are well recognized for contributions to their fields. The department currently has one National Academy of Engineering member, seven IEEE Fellows, one ACM Fellow and over ten PYI/NYI/CAREER awardees. Additional information about the department can be found at <http://www.cse.tamu.edu>.

Texas A&M University CSE faculty applicants should apply online at http://www.cse.tamu.edu/dept_faculty. For questions concerning the position, contact: search@cse.tamu.edu.

Texas A&M University is an equal opportunity/affirmative action employer and actively seeks candidacy of women and minorities. Applications are welcome from dual career couples.

Texas State University-San Marcos
Department of Computer Science
Two Tenure-Track Faculty Positions

The Department of Computer Science invites applications for two tenure-track faculty positions either at the rank of Assistant Professor in software engineering or Assistant Professor, Associate Professor, or Professor in any computer science field. Job duties include conducting a research program that results in refereed publications and external funding, teaching effectively at the graduate and undergraduate levels, supervising student research and serving at the department, college, university, and professional levels.

Assistant Professor in software engineering: Applicants must have completed all requirements for a PhD with specialization in Software Engineering by September 1, 2011. A demonstrated record of excellence in research, potential for excellence in external funding, teaching and service, and effective oral and written communication are essential. Submit electronic application material to hiring2011@cs.txstate.edu.

Assistant Professor, Associate Professor, or Professor in any computer science field: Applicants must meet requirements as listed for the specific rank. Submit electronic application material to hiring11@cs.txstate.edu:
1. For the rank of Assistant Professor, the applicant must have completed all requirements for a PhD in Computer Science, Computer Engineering or closely related field by September 1, 2011. A demonstrated record of excellence in research; potential for excellence in external funding, teaching and

service; and effective oral and written communication are essential.
2. For the rank of Associate Professor, the applicant must hold an earned PhD in Computer Science, Computer Engineering, or closely related field. A sustained record of excellence in research, a record of successful external funding and supervision of student research, demonstrated excellence in teaching and service, and effective oral and written communication are essential.
3. For the rank of Professor, the applicant must hold an earned PhD in Computer Science, Computer Engineering or closely related field. A sustained record of excellence in research, external funding, teaching and service; a record of successful supervision of PhD students and student and faculty mentoring; and effective oral and written communication are essential.

Review of applications will begin on January 7, 2011 and continue until the positions are filled. Applications received by the review date will be given full consideration. To apply, send a cover letter indicating which position and the posting number, curriculum vitae, statements of teaching and research interests, a completed Texas State Faculty Employment Application, and a list of three references with telephone numbers and e-mail and postal addresses.

Electronic submission of all application materials is preferred. Submit electronically to hiring2011@cs.txstate.edu for the Assistant Professor in software engineering or submit to hiring11@cs.txstate.edu for the any rank, any computer science field. Send printed material only if you are not submitting electronic material to Chair, Recruitment Committee, Department of Computer Science, Texas State University-San Marcos, 601 University Drive, San Marcos, TX 78666. For position numbers and more information about the university and the department, visit our recruiting Web page at <http://www.cs.txstate.edu/recruitment/>.

Texas State University-San Marcos is a doctoral-granting university located in the burgeoning Austin-San Antonio corridor, the largest campus in The Texas State University System, and among the largest in the state. Over 30,800 students at Texas State choose from 97 bachelor's, and 89 master's and 9 doctoral programs offered by eight colleges (Applied Arts, The Emmett and Miriam McCoy College of Business Administration, Education, Fine Arts and Communication, Health Professions, Liberal Arts, Science, and the University College). With a diverse campus community including 33% of the student body from ethnic minorities, Texas State is one of the top 15 producers of Hispanic baccalaureate graduates in the nation. Texas State is also the lead institution of a multi-institution teaching center, the Round Rock Higher Education Center, offering several programs in the greater north Austin area. Additional information about Texas State and its nationally recognized academic programs is available at <http://www.txstate.edu>.

Faculty members are eligible for life, disability, health, and dental insurance programs. A variety of retirement plans are available depending on eligibility. Participation in a retirement plan is mandatory. The State contributes toward the health insurance programs and all retirement plans. <http://www.humanresources.txstate.edu/benefits.htm>

San Marcos, a city of about 50,000 residents, is situated in the beautiful Central Texas Hill Country, 30 miles south of Austin and 48 miles north of San Antonio. Metropolitan attractions

plus outdoor recreational opportunities makes the community an attractive place in which to live and work. Other major metropolitan areas, including Houston and Dallas-Ft. Worth, are within four hours. Round Rock, a city of 92,557 residents, is located 15 miles north of Austin in the Central Texas hill country.

Some positions may require teaching on the main campus and at the Round Rock Higher Education Center.

Texas State University-San Marcos will not discriminate against any person (or exclude any person from participating in or receiving the benefits of any of its activities or programs) on any basis prohibited by law, including race, color, age, national origin, religion, sex or disability, or on the basis of sexual orientation.

Texas State University-San Marcos is a member of The Texas State University System.

Toyota Technological Institute at Chicago (TTIC)
Computer Science
Faculty Positions at All Levels

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

- Theoretical computer science
- Speech processing
- Machine learning
- Computational linguistics
- Computer vision
- Computational biology

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

U.S. Naval Academy
Computer Science Department
Assistant Professor

The U.S. Naval Academy's Computer Science Department invites applications for one or more tenure track positions at the rank of Assistant Professor. These positions are anticipated to begin in the Autumn of 2011. A Ph.D. in Computer Science or closely related field is required.

The Computer Science Department offers ABET accredited majors in Computer Science and Information Technology. All faculty teach courses in both majors. We currently have 80 CS majors, 90 IT majors and a faculty of 15. In the summer of 2004, the department moved into a newly renovated building overlooking the scenic Severn River. Our space provides outstanding office, laboratory, and research facilities for both students and faculty, including specialized labs for robotics, networking, and information assurance in addition to three micro-computing labs and two high performance computing labs.

Applicants must have a dedication to teaching, broad teaching interests, and a strong research program. Applications will be considered from all areas of Computer Science.

The Naval Academy is an undergraduate institution located in historic downtown Annapolis, MD on

the Chesapeake Bay. Roughly half of its faculty are tenured or tenure track civilian professors with Ph.D.s who balance teaching excellence with internationally recognized research programs. The remaining faculty are active duty military officers with Masters or Doctoral degrees. Each year the academy graduates roughly 1000 undergraduate students with majors in the sciences, engineering, and humanities. More information about the department and the Academy can be found at <http://www.usna.edu/cs/> and <http://www.usna.edu/>.

Applicants should send a cover letter, teaching and research statements, a curriculum vitae, and three letters of recommendation that address both teaching and research abilities to cssearch@usna.edu.

Review of applications will begin November 1, continuing until the position is filled.

The United States Naval Academy is an Affirmative Action/Equal Opportunity Employer. This agency provides reasonable accommodations to applicants with disabilities. This position is subject to the availability of funds.

U.S. Naval Postgraduate School
Two Tenure-Track Positions

It's hard to beat the location and atmosphere of the U.S. Naval Postgraduate School. Located in Monterey, California, a scenic, uncongested Pacific coast city one hour's drive south of Silicon Valley, NPS is an all graduate (exclusively M.S. and Ph.D) program with excellent U.S. and international military students, with rich research opportunities in both the defense and civilian sectors. The Computer Science Department currently has two tenure-track openings at the Assistant Professor level, one in information security and one in computer forensics. Faculty teach graduate classes, supervise M.S. and Ph.D. theses, and conduct cutting-edge scientific research.

The typical work load is 50% teaching and 50% research. The School has a strong commitment to research excellence, hosting about \$100M externally-funded research annually.

Candidates must hold a Ph.D. in Computer Science or a closely related field, and must be U.S. citizens or permanent residents; non-U.S. residents will not be considered. Electronically send a cover letter, curriculum vitae (including a Web link to all supporting documents), research statement, and a statement of teaching philosophy to the CS Search Committee at CSSRCH@nps.edu. Specific questions about the application process may be directed to: Associate Professor Bert Lundy, blundy@nps.edu.

The Naval Postgraduate School is an Equal Opportunity Employer.

United Technologies Research Centre Ireland, Ltd. (UTRCI)
Positions Available

United Technologies Research Centre Ireland, Ltd. (UTRCI) is UTRC's newly-opened European research hub, created to further leverage a global network of innovation. UTRCI will work with universities, research institutes, and industry throughout Europe and beyond to further its research and development mission in the areas of energy and security.

UTRCI invites qualified individuals to apply for the positions currently available in the areas of low energy sustainable buildings and next generation security systems at <http://www.utrcareers.com/joblist.asp>. These positions are located at UTRC-Ireland's new office opening in Cork.

Qualified candidates for a security systems position will have expertise in the

Professional Opportunities



One of the oldest institutions of higher education in this country, the University of Delaware today combines tradition and innovation, offering students a rich heritage along with the latest in instructional and research technology. The University of Delaware is a Land-Grant, Sea-Grant and Space-Grant institution with its main campus in Newark, DE, located halfway between Washington, DC and New York City. Please visit our website at www.udel.edu.



Faculty Positions in National Security Technologies

The College of Engineering at the University of Delaware invites nominations and applications for all levels with mid- and senior-level tenure-track faculty positions particularly encouraged to lead a growing program in National Security Technology (www.engr.udel.edu/forms/facultysearch/); exceptional junior-level applications will also be considered. Candidates with backgrounds in all engineering fields, with research interests in technologies related to the protection and preservation of the US national interest both within and outside our borders are particularly encouraged to apply.

Appointments may be in a primary engineering discipline or as an interdisciplinary appointment across departments. Candidates will be expected to teach undergraduate and graduate classes within their discipline and to conduct innovative and internationally recognized research. If appropriate, candidates applying in areas requiring a high-level security clearance should either possess or be capable of attaining one within the Department of Defense or equivalent Federal Agency.

Applicants should submit a curriculum vitae, a statement of research and teaching interests and achievements, and the names, addresses, phone numbers, and e-mail addresses of four references at www.engr.udel.edu/forms/facultysearch/. Review of applications will begin as early as October 15, 2010, although nominations and applications will be accepted until the position is filled.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

areas of: a) formal methods for security policy design and verification, b) wireless sensor networks for indoor applications (localization, tracking, etc.) and c) multi-factor authentication systems.

Qualified candidates for low energy sustainable buildings will have expertise in a) building demand-side energy management (HVAC, lighting, etc), b) building supply-side (microgrid) energy management, c) building energy diagnostics, d) wireless sensing for low energy buildings and e) microgrid power electronics and power control.

University of Alberta
Department of Computing Science
Assistant or Associate Professor - Software Engineering

The Department of Computing Science at the University of Alberta is seeking a qualified individual to fill a tenure-track position at the level of Assistant or Associate Professor. The research focus will be in software engineering, with a strong preference for someone with an interest in service-oriented computing, ubiquitous software, and/or interactive and collaborative technologies.

Candidates are required to have a PhD in Computer Science or a related discipline. The successful candidate will be expected to establish their own research program, supervise graduate students and teach at both the graduate and undergraduate levels. The Department values curiosity-driven research and interdisciplinary collaboration very highly.

The Department of Computing Science is known for its collegial atmosphere, dynamic and well-funded research environment, and superb research and teaching infrastructure. Faculty members are internationally recognized in many areas of computing science and enjoy collaborative research partnerships with local, national, and international institutions and companies. The University of Alberta, located in the province’s capital of Edmonton, is one of Canada’s largest and finest teaching and research institutions. We have a strong commitment to research excellence, undergraduate teaching and community involvement. As a population center of over one million people, Edmonton offers a high-quality, affordable lifestyle that includes a wide range of cultural events and activities in a natural setting close to the Canadian Rockies. Alberta’s innovative funding initiatives for supporting and sustaining leading edge IT research have attracted world-class researchers and outstanding graduate students to our Department and to the

campus. Further information about the Department and University can be found online at: www.cs.ualberta.ca.

Salary will be commensurate with experience. The University of Alberta offers competitive salaries and an extensive benefits package.

Candidates should submit a curriculum vitae, a one-page summary of research plans, a statement of teaching interests, reprints of their three most significant publications, and the names of references (with contact information). iris.everitt@ualberta.ca

For more information visit: www.careers.ualberta.ca

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

University at Buffalo, The State University of New York
Computer Science and Engineering
Faculty Position

The CSE Department invites excellent candidates in all core areas of Computer science and Engineering, especially Database Systems, Data Mining, Information Retrieval, Machine Learning and Robotics areas, to apply for an opening at the assistant professor level.

The department is affiliated with successful centers devoted to biometrics, bioinformatics, biomedical computing, cognitive science, document analysis and recognition, high performance computing, and information assurance.

Candidates are expected to have a Ph.D. in Computer Science/Engineering or related field by August 2011, with an excellent publication record and potential for developing a strong funded research program.

Applications should be submitted by December 31, 2010 electronically via <http://www.ubjobs.buffalo.edu/>

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

University of California, Los Angeles
Computer Science Department
Tenure-Track Positions

The Computer Science Department of the Henry Samueli School of Engineering and Applied Science at the University of California, Los Angeles, invites applications for tenure-track positions in all areas of Computer Science and Computer Engineering.

Applications are also encouraged from distinguished candidates at senior levels. Quality is our key criterion for applicant selection. Applicants should have a strong commitment both to research and teaching and an outstanding record of research for their level of seniority. Salary is commensurate with education and experience.

UCLA is an Equal Opportunity/Affirmative Action Employer. The department is committed to building a more diverse faculty, staff and student body as it responds to the changing population and educational needs of California and the nation. To apply, please visit <http://www.cs.ucla.edu/> recruit. Faculty applications received by January 15 will be given full consideration.

University of Delaware
Department of Computer and Information Sciences
Network/Systems Security Faculty Position

Applications are invited for a tenure-track faculty position at all ranks in Network/Systems Security to begin Fall 2011. Applicants should hold a Ph.D. or its equivalent, and be committed to excellence in research and teaching.

The Department has 24 tenure-track, 8 research, and 2 teaching faculty members, 110 graduate students and about 250 undergraduate students. We have significant external funding, including NSF CAREER Awards, and Air Force and DoE Young Investigator Awards.

The University of Delaware is centrally located between Philadelphia and Baltimore, with major government and industrial labs nearby. The Army’s Communications-Electronics Research, Development, and Engineering Center (CERDEC) is in the process of relocating to Aberdeen, Maryland which is about 30 miles from the campus. The Center for Information and Communications Sciences in the College of Engineering conducts basic and applied research for sponsors in the National Security sector, facilitating research interactions between associated faculty, industry, and federal and state government agencies. A major UDel biotechnology initiative (<http://www.dbi.udel.edu>) offers opportunities for collaborative research in bioinformatics. Considerable information about the Department and the University is available at:

<http://www.cis.udel.edu> and <http://www.udel.edu/aboutus/>, respectively.

More information is available at <https://www.engr.udel.edu/faculty-search>.

University of Maryland College Park
Department of Computer Science
Faculty Positions

The Department of Computer Science at the University of Maryland, College Park, MD, USA has two openings for faculty positions effective July 1, 2011 or earlier. Applicants will be considered for joint appointments between the Department and the Institute for Advanced Computer Studies (UMIACS). We invite applications from candidates to fill two positions at the junior or senior levels (tenure-track Assistant Professor or tenured Associate or Full Professor) in Cyber Security or a related area.

Applications from women and minority candidates are especially welcome.

Please apply online at <https://jobs.umd.edu> and hiring.cs.umd.edu. Candidates must apply to both websites to receive consideration. Applications should be completed by January 3, 2011 for best consideration. The review of applicants will be on-going, so we encourage your early application.

Additional information about the Department of Computer Science and the Institute for Advanced Computer Studies is available at

<http://www.cs.umd.edu> and at <http://www.umiacs.umd.edu>

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

University of Maryland College Park
College of Information Studies (iSchool)
Assistant, Associate, or Full Professor – Multiple Positions

The iSchool at the University of Maryland College Park invites highly qualified individuals to apply for multiple tenure-track assistant, associate, or full professor levels. Ideal candidates hold a PhD or equivalent degree in a relevant area and have a demonstrated record of or potential for research accomplishments as appropriate to rank, and a demonstrated record of or potential for attracting outside funding.

The iSchool is known internationally for its vibrant program of interdisciplinary research in information access, retrieval, and use; digital libraries; information policy; information and diverse populations; information seeking and use in electronic environments; interface design; cloud computing; health information/health information technology; and social media technologies. Areas of particular interest include: Academic, Public, School, or Special Libraries; Archives, Records Management, Digital Curation, & Preservation; Information Organization; Knowledge Management; and Digital Libraries.

For more information regarding application submission, go to ischool.umd.edu.

The University of Maryland is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.

University of Massachusetts Amherst
Department of Computer Science
Assistant Professor; Tenure-Track Computational Biology or Bioinformatics

We invite applications from Ph.D.-level computer scientists for a Five College joint faculty position based at UMass-Amherst with research, teaching and service shared with Mount Holyoke College, providing the successful candidate with the unique opportunities of both a premier research university and an elite liberal arts college. For details on the Five College Consortium: www.fivecolleges.edu. Focus areas could include proteomics, metabolomics, genomics, systems biology, statistical genetics, evolutionary biology, medical informatics, or other areas at the intersection of computer science, biology, and biotechnology. The successful candidates will enjoy exciting opportunities for collaboration in research areas such as protein folding, genome sequence annotation, imaging, machine learning, and cellular biophysics. Teaching and post-doctoral experience preferred. UMass!Amherst and Mount Holyoke College are strongly committed to having a diverse faculty and student body. For more information: www.cs.umass.edu/bioinfosearch.

Send curriculum vitae, a description of research interests and teaching experience, and three letters of recommendation to:

Chair, Bioinformatics Search Committee
Computer Science Department
140 Governors Drive
University of Massachusetts Amherst
Amherst, MA 01003-9264

Professional Opportunities

Electronic submissions encouraged:
bioinfosearch@cs.umass.edu

Review of applications will begin November 15, 2010, and continue until the position is filled.

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

University of Massachusetts Lowell

Computer Science Department
Tenure-Track and Tenured Faculty Positions

The University of Massachusetts Lowell is a comprehensive university with a national reputation in science, engineering and technology, committed to educating students for lifelong success in a diverse world and conducting research and outreach activities that sustain the economic, environmental and social health of the region. In February 2009, a campus-wide strategic planning initiative was launched to reposition UMass Lowell as a world-class institution over the next decade. A major component of that initiative is to ensure that diversity and inclusion are in every aspect of our strategic plan. We seek a diverse talented candidate pool to be part of our mission and achievements.

UMass Lowell is located about 25 miles northwest of Boston in the high-tech corridor of Massachusetts. The Computer Science Department has 15 tenured and tenure-track faculty, serving about 220 BS students, 110 MS students, and 55 PhD students. It also offers bioinformatics options at all levels, and a PhD in computational mathematics.

The Computer Science faculty received approximately \$6M in the last two years in external research funding from the NSF, DOD, DOH, and corporations. The department has four NSF CAREER Award Recipients. See <http://www.cs.uml.edu> for more information.

The Computer Science Department at the University of Massachusetts Lowell invites applications for one or two Assistant Professor positions, and one or two positions at the rank of Associate or Full Professor. Positions will start in September 2011. Initial review of applications will begin immediately. The application deadline is December 1, 2010. Women and underrepresented minorities are strongly encouraged to apply.

Assistant Professor. Applicants must hold a PhD in computer science or a closely related discipline, have two or more years of teaching and research experience as assistant professors or postdoctoral researchers, have participated in significant federal grant writing, and be committed to developing and sustaining an externally funded research program. We are especially seeking candidates with strong ongoing research who are PIs of funded projects from major US funding agencies. These are tenure-track positions.

Associate or Full Professor. Applicants must hold a PhD in computer science or a closely related discipline, have substantial teaching and research experience, have made significant contributions to their fields on strong ongoing research projects, be current PIs of substantial grants from major US funding agencies, and be committed to sustaining and strengthening an externally funded research program. These are tenured or tenure-track positions depending on qualifications.

All ranks: Outstanding candidates in any major computer science research area will be considered. In addition to developing/expanding a research

program, the successful applicant will be encouraged to contribute to the collaborative research of the existing departmental groups. The successful candidate will be expected to teach undergraduate and graduate courses, including department core and specialty areas based on the candidate's expertise, and must have prior effective teaching experience.

How to apply:

1. Submit a cover letter, a current CV, research statement, teaching statement, and selected relevant research publications through our web site at <http://jobs.uml.edu> under "Faculty Positions". You must apply using the online system. Make sure to apply to the correct rank.

2. Arrange for at least three letters of recommendation to be included in your application.

3. Optional documents: If available, please include summaries of teaching evaluations.

The University of Massachusetts Lowell is committed to increasing diversity in its faculty, staff, and student populations, as well as curriculum and support programs, while promoting an inclusive environment. We seek candidates who can contribute to that goal and encourage you to apply and to identify your strengths in this area.

University of Memphis

Computer Science Department
Postdoctoral Research Fellow

The Networking Research Lab at the University of Memphis invites applications for a full-time 2-year postdoctoral research fellow position in Future Internet Design starting immediately.

See <http://www.cs.memphis.edu/index.php?p=news&id=224> for more information.

The University of Michigan

Department of Electrical Engineering and Computer Science
Computer Science and Engineering Division
Faculty Position

The University of Michigan is conducting a search for an interdisciplinary "cluster" of five new faculty over the next two or three years in the broad area of Computational Media and Interactive Systems. We are looking for individuals whose work focuses on the interplay between computational technologies and the creative disciplines, on the use of social media and computation in arts and performance and craftsmanship, as well as on the development of new computational techniques for understanding, shaping, and building with digital media. These new positions are collectively supported by the College of Engineering (2 positions in Computer Science and Engineering), the School of Music, Theatre & Dance (1 position in Performing Arts Technology), the School of Art & Design (1 position), and Taubman College of Architecture and Urban Planning (1 position). Independently based in different disciplines and academic units, these new faculty—creative practitioners and computational engineers and scientists—will collaboratively engage innovative research and pedagogical development to explore new dimensions of creativity made possible by a shared digital ecology.

As part of the interdisciplinary cluster hiring, applications are solicited for a faculty position in the Computer Science and Engineering (CSE) Division in all areas related to analyzing, understanding, representing, and creating computational media, including but not limited to audio, music, image, and video information retrieval, video

understanding and mashups, time-based, distributed, collaborative and interactive media, and automatic classification, clustering, and activity recognition in heterogeneous media.

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

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 Satinder Singh Baveja,
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.

The University of Michigan, Ann Arbor

Department of Electrical Engineering and Computer Science
Computer Science and Engineering Division
Faculty Position

Applications and nominations are solicited for a faculty position in the Computer Science and Engineering (CSE) Division as part of an interdisciplinary cluster hire funded by the University President to strengthen expertise in the area of petascale computing. We are looking for individuals broadly interested in parallel systems that scale to petascale and beyond. Relevant areas include run-time systems, compilers, algorithms, programming languages, tools, and networking.

Candidates with a focus in this area are encouraged to apply. However, all computer science and engineering applications will be considered. Applications must be received by January 10, 2011.

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

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 Satinder Singh Baveja,
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 North Carolina at Chapel Hill

Department of Computer Science
Bioinformatics Assistant Professor

The Department of Computer Science at the University of North Carolina at Chapel Hill, in conjunction with the Lineberger Comprehensive Cancer Center and the Carolina Center for Genome Sciences, seeks a colleague who applies computational methods to study molecular, cellular or developmental systems relevant to cancer.

The successful candidate must have a Ph.D. in computer science, computational biology, or a relevant field by the effective date. Qualified candidates should have a strong research record in computational biology and experience in interdisciplinary collaboration, and a commitment to teaching excellence.

Additional details concerning this position as well as complete application instructions can be found at: <http://cs.unc.edu/Admin/Faculty/Recruiting/hiring10.html>

University of North Carolina at Charlotte

College of Computing and Informatics
Multiple Faculty Positions

CCI is one of the few college-level organizations in computing and informatics among major research universities in the US, with close to 60 faculty, 30 staff, and 1200 students, including 130 Ph.D. students. The college has a vibrant and cutting edge research enterprise, most notably: Charlotte Visualization Center is one of the leading centers in the nation sponsored by the Department of Homeland Security in visual analytics; Cyber DNA Center is a National Center of Excellence in Information Assurance Research and Education designated by the National Security Agency; the Bioinformatics Research Center leads the University in structural bioinformatics, molecular biophysics, plant genomics, and metagenomics research. For fiscal year 2009-2010 the College received over \$15 million in external research funding.

UNC Charlotte is a rapidly growing urban research university with 900 faculty, over 25,000 students, including 5,400 graduate students, with a projected enrollment of 35,000 by 2020. It is ranked among the top 10 of up-and-coming national universities by the US News and World Report. Charlotte is a dynamic and diverse region of 1.8 million people and is one of the most livable major urban areas in the nation, with outstanding cultural and recreational amenities. It is the second largest banking center in the country, and a leading center for energy, healthcare, retail, and logistics industries.

The College of Computing and Informatics is embarking on an exciting venture to develop a new class of leading computing and informatics programs for the 21st Century talent and innovation needs. Our strategy emphasizes the interplay between developing critical mass in analytics, security, and informatics, and building strong connections with banking, healthcare, energy, life science, and biotechnology. We invite outstanding entrepreneurial, thought leaders to join our faculty in the following positions:

Department of Computer Science: tenure-track full professor. The successful candidate should have demonstrated skills in working across college and departmental boundaries and is experienced in building and managing large-scale, interdisciplinary research and educational efforts. The candidate's research can lie in serious games, data

Professional Opportunities

warehousing, data analytics, or knowledge systems and discovery.

Department of Software and Information Systems: two tenure-track faculty positions at all levels, with strong preference given to full and associate professor ranks. A successful candidate must have an excellent research record that can attract substantial research funding. The Department is particularly interested in faculty with research expertise in health informatics, information and network security, modeling, and simulation of complex systems.

Department of Bioinformatics and Genomics invites applications for the Carol Grotnes Belk Distinguished Professorship of Bioinformatics and Genomics with tenure.

Salaries for the above positions will be highly competitive. All candidates must have a Ph.D. degree in relevant areas. For application details, please visit (<https://jobs.uncc.edu>) and click on faculty. Review of applications will start in September 2010 and continue until positions are filled. The University of North Carolina at Charlotte is an EOE/AA employer and an NSF ADVANCE Institution.

University of North Florida
Dean of the College of Computing,
Engineering and Construction

The University of North Florida, one of eleven public universities in the State of Florida, invites applications and nominations for the position of Dean of the College of Computing, Engineering and Construction.

Review of applications begins October 22, 2010 and the position is open until filled. The anticipated start date is July, 2011.

To apply for this position (319770), a candidate must complete a one-page online application in the UNF Human Resource system (OASys) at https://www.unfjobs.org/applicants/jsp/shared/Welcome_css.jsp, and upload a letter of interest addressing the qualifications mentioned above, a curriculum vitae and a list of five references including the names, titles, phone numbers, and addresses (both regular mail and email).

Florida’s “Sunshine Law” requires that all search committee business be open to public review. For more information about the University of North Florida, visit our website at www.unf.edu.

UNF is an equal opportunity/equal access/affirmative action institution.

The University of North Florida
School of Computing
Director

University of North Florida invites applications for position of Director of School of Computing.

For more information, see <http://www.unfjobs.org> (Position no.: 315250).

University of Notre Dame
Department of Computer Science and Engineering
The Duda Family Chair in 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 eighty students in the PhD program and over one hundred majors in the undergraduate programs. Currently there are eighteen tenure-track and eight 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, networks / systems and software engineering. 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.

Outstanding applicants and nominees in all areas of Computer Science and Engineering will be considered. Screening of applications will continue until the position is filled. Applicants should send a statement of interest, CV, and list of references in PDF format to DudaChairSearch@cse.nd.edu.

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

University of Notre Dame
Department of Computer Science and Engineering
Assistant or Associate Professor Positions

The Department of Computer Science and Engineering at the University of Notre Dame invites applications for positions at the rank of Assistant or Associate Professor. Exceptional candidates in all areas of specialization will be considered, and the area of bioinformatics is one high priority for us this year.

The Department offers a PhD degree as well as accredited undergraduate Computer Science and Computer Engineering degrees. There are approximately eighty 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 National Institutes of Health recently awarded a \$12 million contract to CSE and Biology 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, with \$25 million in new funding.

The University of Notre Dame is a private, Catholic university with a doctoral research 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 is on-going. Applicants should send (pdf format preferred) a CV, statement of teaching and research interests, and contact information for three professional references to:

facultysearch AT cse.nd.edu<<http://www.cse.nd.edu/>

University of Pennsylvania
Department of Computer and Information Science,
Faculty Position

The University of Pennsylvania invites applicants for tenure-track appointments in computer graphics and animation to start July 1, 2011. Tenured appointments will also be considered.

Faculty duties include teaching undergraduate and graduate students and conducting high-quality research. Teaching duties will be aligned with two programs: the Bachelor of Science and Engineering in Digital Media Design, and the Master of Science and Engineering in Computer Graphics and Game Technology (see <http://cg.cis.upenn.edu>). Research and teaching will be enhanced by the recently renovated SIG Center for Computer Graphics, which houses the largest motion capture facility in the region, and is also the home of the Center for Human Modeling and Simulation. 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, Fine Arts, Medicine, the Wharton School, the Annenberg School of Communication, Nursing, and Law. 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, 2011 to be assured full consideration. Applications will be accepted until the position is filled. Questions can be addressed to faculty-search@cis.upenn.edu. The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds.



UNIVERSITY of WASHINGTON | BOTHELL

COMPUTING & SOFTWARE SYSTEMS

Lecturer or Senior Lecturer

The University of Washington Bothell Computing and Software Systems (CSS) Program invites applications for a Lecturer or Senior Lecturer position on a full-time, nine month, 1–3 year renewable appointment beginning fall 2011. Faculty duties include teaching and mentoring undergraduate and graduate students, including supervision of undergraduate capstone internships. Thus, relevant experience with local industry is desirable. We are looking for someone who can contribute broad academic and industry expertise to the CSS curriculum in areas that include, but are not limited to: security, networking (including wireless, ubiquitous computing and *ad-hoc* mobile), operating systems, architecture, databases, multimedia software development, computer engineering, and parallel and distributed computing.

The Bothell campus of the University of Washington was founded in 1990 as an innovative, interdisciplinary campus within the University of Washington system — one of the premier institutions of higher education in the US. Faculty members have full access to the resources of a major research university, with the culture and close relationships with students of a small liberal arts college.

Required qualifications include a master’s degree or earned doctorate (preferred) in computer science or another relevant technical field, a body of work that warrants appointment at the rank of Lecturer or Senior Lecturer (determination between which, and length of the appointment, will be made commensurate with the individual’s qualifications), demonstrated experience in and commitment to excellence in undergraduate and graduate education, and a commitment to enhancing learning for diverse student populations.

Please send: **(1)** a cover letter describing your interest in the position and your relevant academic experience, **(2)** a curriculum vitae, **(3)** a list of a minimum of three professional references including contact information, **(4)** a statement of teaching philosophy including experience with and commitment to working with students from diverse backgrounds, and **(5)** an example syllabus. Review of applications will begin on **November 15, 2010**; the position will remain open until filled. Please address application materials to the CSS Lecturer Search Committee and submit to css-search@uwb.edu.

For additional information, please see www.uwb.edu/css/faculty-positions.
The University of Washington, Bothell is an affirmative action, equal opportunity employer.

Professional Opportunities

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 opportunities in the Philadelphia region.

University of Puerto Rico, San Juan, PR, USA
Institute for Functional Nanomaterials
Postdoctoral Position in Scientific Computing

A postdoctoral position is available at the University of Puerto Rico in scientific computing. The successful candidates will work with consortium of researchers in the Physics and Chemistry towards developing methods for computational cyberinfrastructure. Required qualifications: Computer Science or related field; experience in scientific computing and high performance computing; excellent computer programming skills. Review of applications will begin immediately and will continue until the positions are filled. Applicants should email CV, research interests, and list of references.

For details see: ccom.uprrp.edu/~pmusial/CIpostdoc.pdf

Contacts: Peter Musial (peter.musial@uprrp.edu)

University of Rochester
Computer Science Department
Assistant to Full Professor of Computer Science

The UR Department of Computer Science seeks researchers in computer vision and/or machine learning for a tenure-track faculty position beginning in Fall 2011. Outstanding applicants in other areas may be considered. Candidates must have a PhD in computer science or related discipline. Senior candidates should have an extraordinary record of scholarship, leadership, and funding.

The Department of Computer Science is a select research-oriented department, with an unusually collaborative culture and strong ties to cognitive science, linguistics, and electrical and computer engineering. Over the past decade, a third of its PhD graduates have won tenure-track faculty positions, and its alumni include leaders at major research laboratories such as Google, Microsoft, and IBM.

The University of Rochester is a private, Tier I research institution located in western New York State. The University of Rochester consistently ranks among the top 30 institutions, both public and private, in federal funding for research and development. Half of its undergraduates go on to post-graduate or professional education. The university includes the Eastman School of Music, a premiere music conservatory, and the University of Rochester Medical Center, a major medical school, research center, and hospital system. The Rochester area features a wealth of cultural and recreational opportunities, excellent public and private schools, and a low cost of living.

Candidates should apply online at <http://www.cs.rochester.edu/recruit> after November 1, 2010. Review of applications will begin on December 1, and continue until all interview openings are filled. The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented

in higher education. The University is an Equal Opportunity Employer.

University of Southern California
Information Sciences Institute
Post-Doctoral Research Associate Position

We are seeking a Postdoctoral Research Associate for a one-year fixed term position, with a possible reappointment for the second year. The project focuses on developing physics-based approaches for studying social dynamics in networked environments. The successful candidate is expected to work on theoretical, computational, and empirical aspects of the problem. Required qualifications include a strong background in statistical physics or complex dynamical systems. A PhD in computer science, physics, or mathematics is required.

For full position announcement and to apply please visit:

<https://jobs.usc.edu> and search for Requisition ID: 005877

Further inquiries may be directed to Kristina Lerman (lerman@isi.edu)

University of Utah
School of Computing
Tenure-Track or Tenured Faculty

The School of Computing at the University of Utah invites outstanding candidates for multiple tenure-track faculty appointments at the assistant professor level. Where indicated, more senior positions will be considered. From its earliest origins, the School has demonstrated research leadership in computer science and in multidisciplinary computing. We are particularly interested in candidates with achievement in one or more of the following areas: algorithms, concurrent software, data bases, data mining, formal verification, large data analysis, machine learning, performance verification, parallel systems, robotics, and theory.

These interest areas reflect growth in established or planned centers, namely,

(i) Center for Parallel Computing at Utah (www.parallel.utah.edu): research areas include formal verification algorithms and tools; parallel and concurrent software/systems; performance verification.

(ii) Utah Robotics Center (robotics. eng.utah.edu): a multidisciplinary focus activity with Mechanical Engineering including robotics and machine learning.

(iii) Extreme-scale data (www.cs.utah.edu/research/areas/esd): crosscutting research including theory, algorithms, large data analysis, data mining, and data bases.

Applicants should have earned a Ph.D. in Computer Science or a closely related field. The University of Utah is located in Salt Lake City, the hub of a major metropolitan area with excellent cultural facilities and unsurpassed opportunities for outdoor recreation within only a few minutes drive. Additional information about the school and our current faculty can be found at www.cs.utah.edu. Applicants should prepare a set of the following PDF documents: a cover letter identifying the areas that fit your research profile, a curriculum vitae, a research goals statement, a teaching goals statement, and the names and addresses of at least four references. This set of PDF documents should be emailed to coleman@cs.utah.edu.

Applications will be evaluated as received until the positions are filled. Applicants are encouraged to apply at their earliest convenience.

The University of Utah is fully committed to affirmative action and to its policies of nondiscrimination and equal opportunity in all programs, activities,

and employment. Employment decisions are made without regard to race, color, national origin, sex, age, status as a person with a disability, religion, sexual orientation, gender identity or expression, and status as a protected veteran. The University seeks to provide equal access for people with disabilities. Reasonable prior notice is needed to arrange accommodations. Evidence of practices not consistent with these policies should be reported to: Director, Office of Equal Opportunity and Affirmative Action, (801) 581-8365 (V/TDD).

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 Utah
School of Computing
Tenure-Track or Tenured Faculty Position-Jay Lepreau Professorship of Computer Science

The University of Utah’s School of Computing is seeking to hire an outstanding tenure-track or tenured senior faculty member in systems, with a particular emphasis on operating systems, testbeds, or networks. This professorship is named in honor of Jay Lepreau, a professor of Computer Science at Utah. Candidates for this position should have an established record of leadership and an interest in large-scale systems research. To assist in discharging research and leadership obligations, successful applicants for this position will have a reduced teaching load and an endowment providing funding into perpetuity.

This professorship provides an opportunity to work closely with the Flux Research Group, which Jay founded and led. This well-established group of research staff and students is more than a dozen years old and draws on decades-long history of strong systems research at Utah. Its past and ongoing projects span a range of systems topics including operating systems, networking, security, programming languages, compilers, software engineering, and testbeds. The group has been a part of research initiatives sponsored by NSF, DARPA and several major companies. One of the group’s ongoing and best-known projects is Emulab, a network testbed with global impact. The Emulab software runs testbeds at dozens of sites, and the installation at Utah, in operation for eight years, is used by thousands of researchers at hundreds of institutions worldwide.

Applicants should have earned a Ph.D. in Computer Science or a closely related field. The University of Utah is located in Salt Lake City, the hub of a large metropolitan area with excellent cultural facilities and unsurpassed opportunities for outdoor recreation only a few minutes’ drive away. Additional information about the school can be found at www.cs.utah.edu. Please send curriculum vitae, a research goals statement, a teaching goals statement, and names and addresses of at least four references to:

Faculty Recruiting Committee
c/o Mr. Chris Coleman
coleman@cs.utah.edu
Via email in PDF format

Applications will be evaluated as received until the position is filled. Applicants are encouraged to apply at their earliest convenience.

The University of Utah is fully committed to affirmative action and to its policies of nondiscrimination and equal opportunity in all programs,

activities, and employment. Employment decisions are made without regard to race, color, national origin, sex, age, status as a person with a disability, religion, sexual orientation, gender identity or expression, and status as a protected veteran. The University seeks to provide equal access for people with disabilities. Reasonable prior notice is needed to arrange accommodations. Evidence of practices not consistent with these policies should be reported to: Director, Office of Equal Opportunity and Affirmative Action, (801) 581-8365 (V/TDD).

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
Lecturer Position

The David R. Cheriton School of Computer Science at the University of Waterloo is seeking a Lecturer to assume a mix of teaching and advising duties. The ideal candidate will have excellent teaching abilities, strong interpersonal skills, the ability to relate well to students seeking advice, an ability to work collaboratively with other team members, and an ability to assimilate, analyze, and manage the details associated with our various undergraduate degree programs. A masters degree in computer science or a related discipline is required, and a doctorate is preferred; candidates are also expected to have some teaching experience. Successful candidates may be eligible for reappointment to additional terms, and those demonstrating outstanding performance in teaching and service may be considered for an ongoing appointment as a Continuing Lecturer.

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 web site for more information: <http://www.cs.uwaterloo.ca>.

To submit an application, please register at the submission site: <http://www.cs.uwaterloo.ca/faculty-recruiting>. Once registered, instructions will be provided regarding how to submit your application. Although applications will be considered as soon as possible after they are complete and as long as a position is available, full consideration is assured for those received by November 30. Salary will be competitive and commensurate with experience.

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.

Professional Opportunities

University of Waterloo

David R. Cheriton School of Computer Science
Tenured and Tenure-Track Faculty

Applications are invited for several positions in computer science: (a) Up to two senior, tenured David R. Cheriton Chairs in Software Systems are open for candidates with outstanding research records in software systems (very broadly defined). Successful applicants will be acknowledged leaders in their fields or have demonstrated the potential to become such leaders. These positions include substantial research support and teaching reduction. (b) One tenured or tenure-track position is open in the area of Health Informatics, including, but not limited to, healthcare IT, medical informatics, and biomedical systems. The successful applicant will help develop a new graduate degree program in health informatics. (c) One other tenured or tenure-track position is available for excellent candidates in any computing area, but highest priority will be given to candidates specializing in systems software (operating systems, distributed systems, networks, etc.) and information systems (e-commerce systems, enterprise resource planning systems, business intelligence, etc.).

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 2011 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 web site for more information: <http://www.cs.uwaterloo.ca>.

To submit an application, please register at the submission site: <http://www.cs.uwaterloo.ca/faculty-recruiting>. Once registered, instructions will be provided regarding how to submit your application. Although applications will be considered as soon as possible after they are complete and as long as positions are available, full consideration is assured for those received by November 30.

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.

Utah State University
Department of Computer Science
Assistant Professor

Applications are invited for a faculty position at the Assistant Professor level, for employment beginning Fall 2011. Applicants must have completed a PhD in computer science by the time of appointment. The position requires demonstrated research success,

a significant potential for attracting external research funding, excellence in teaching both undergraduate and graduate courses, the ability to supervise student research, and excellent communication skills. The department is interested in strengthening its focus in the following areas: Software Security, Game Development, and Database Systems.

USU offers competitive salaries and outstanding medical, retirement, and professional benefits (see <http://www.usu.edu/hr/> for details). The department currently has approximately 280 undergraduate majors, 80 MS students and 27 PhD students. There are 17 full time faculty. The BS degree is ABET accredited. Utah State University is a Carnegie Research Doctoral extensive University of over 23,000 students, nestled in a mountain valley 80 miles north of Salt Lake City, Utah. Opportunities for a wide range of outdoor activities are plentiful. Housing costs are at or below national averages, and the area provides a supportive environment for families and a balanced personal and professional life. Women, minority, veteran and candidates with disabilities are encouraged to apply. USU is sensitive to the needs of dual-career couples. Utah State University is an affirmative action/equal opportunity employer, with a National Science Foundation ADVANCE Gender Equity program, committed to increasing diversity among students, faculty, and all participants in university life.

Applications must be submitted using USU’s online job-opportunity system. To access this job opportunity directly and begin the application process, visit <https://jobs.usu.edu/applicants/>

Vanderbilt University
Electrical Engineering and Computer Science
Faculty Position in Computer Science (all Ranks)

The Department of Electrical Engineering and Computer Science at Vanderbilt University is seeking candidates for a faculty appointment in Computer Science. Appointments at all ranks will be considered, with a preference for appointment at the assistant professor level. We are interested in candidates at the cutting edge of computer science, but will place priority on candidates who strengthen the program’s existing research areas: artificial intelligence, computer animation and virtual environments, cyber-physical systems, distributed and embedded systems, human-systems integration, imaging, network security and privacy, and robotics. Applicants with expertise that would strengthen existing ties with the Vanderbilt University Medical Center are welcomed. The successful candidate will teach at both the undergraduate and graduate levels, and develop a vigorous externally funded research program. Applications should be received by December 1, 2010, but will be accepted until all positions are filled.

The EECS Department has 33 full-time faculty members, 225 undergraduate students, and 160 graduate students. Research awards to the Department average ~\$600k per tenure/tenure-track faculty member. Founded in 1873, Vanderbilt is a private, coeducational university with approximately 6,000 undergraduates and 5,000 graduate and professional students.

Vanderbilt University is an equal-opportunity, affirmative-action employer. Applications should be submitted at: <https://academicjobsonline.org/ajo/jobs/468>

Washington State University
Vancouver

Computer Science Department
Tenure-Track Position

Washington State University Vancouver invites applications for a tenure-track position at the assistant professor level beginning 8/16/2011. Candidates are sought with expertise in computer networks, wireless networks or sensor networks. Position duties include teaching, research and service.

Required qualifications: Ph.D. in Computer Science or Computer Engineering at the time of employment and demonstrated ability to (1) develop funded research program, (2) establish strong industrial collaborations, and (3) teach undergraduate/graduate courses. Preferred qualifications: knowledge of the ABET accreditation process, relevant industrial background and commitment to working with diverse student and community populations. WSU Vancouver is committed to building a culturally diverse educational environment.

WSU Vancouver serves about 3000 graduate and undergraduate students and is fifteen miles north of Portland, Oregon. The rapidly growing School of Engineering and Computer Science (ENCS) equally values both research and teaching. WSU is Washington’s land grant university with faculty and programs on four campuses.

For more information: <http://encs.vancouver.wsu.edu/>.

Applications must include: (1) cover letter with a clear description of experience relevant to the position; (2) vitae including a list of references; and (3) maximum three-page total summary statement of research and teaching experience. This statement must describe how the candidate’s research activity will expand or complement the current research in ENCS. It must also list the existing ENCS courses and proposed new courses the candidate can develop/

teach. Application deadline is December 15, 2010. Submit application materials online at <http://www.wsujobs.com>.

WSU is committed to excellence through diversity, has faculty friendly policies including a partner accommodation program, and a NSF ADVANCE Institutional Transformation grant (see <http://www.excelinse.wsu.edu/>). WSU employs only US citizens and lawfully authorized non-citizens. WSU is an EO/AA educator and employer.

Worcester Polytechnic Institute
Computer Science Department

Tenure-Track Faculty

The Computer Science Department anticipates hiring a tenure-track faculty member at the Assistant Professor level for the Fall of 2011. We are particularly interested in candidates working broadly at the intersection of security and systems/networking. 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.

Questions about the hiring process should be sent to recruit@cs.wpi.edu. Applications should be submitted per instructions at:

<http://apptkr.com/161054>

You will need to include detailed research and teaching statements, vitae and contact information for at least three references.

For full consideration, applications should be received by 12/15/2010.

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

~A member of the Colleges of Worcester Consortium~

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