



CRA

Computing Research
Association

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COMPUTING RESEARCH ASSOCIATION, UNITING INDUSTRY, ACADEMIA AND GOVERNMENT
TO ADVANCE COMPUTING RESEARCH AND CHANGE THE WORLD.

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UMass-Amherst Prof and CRA Board Member Kurose Selected to Run NSF CISE

By Peter Harsha, CRA Director of Government Affairs

National Science Foundation Director France Córdova recently announced the appointment of James F. Kurose, UMass Amherst Professor and member of CRA's Board of Directors, to serve as Assistant Director for the agency's Directorate for Computer and Information Science and Engineering (CISE). CISE is the "home" for computing research at the agency, which supports over 80 percent of all university-based fundamental computer science research in the U.S. Kurose will take over the position in January 2015.

Kurose is currently Distinguished Professor at UMass Amherst's School of Computer Science, a position he's held since 2004. He's been a member of Advisory Committee for CISE, a visiting scientist at a number of industrial research labs, and has served as a member of the CRA Board of Directors for the last seven years.

CRA's Chair, J Strother Moore, shared his perspective on the appointment with NSF:

"Jim Kurose is a fantastic choice for NSF CISE Assistant Director," said J. Strother Moore, chair of the Computing Research Association Board of Directors, Inman Professor of Computing in the Computer Science Department of the University of Texas at Austin and former co-chair of the CISE advisory committee. "He has served on the CRA Board for seven years. He is thus very familiar with many issues in computing research and with the potential and broad impact of that research. We at CRA will miss his perspective

and wisdom on the Board, but are thrilled that NSF has made such a superlative choice for CISE and the computing research community."

Kurose takes over the helm of CISE from Farnam Jahanian, who is now VP for Research at Carnegie Mellon University after a successful 3 year stint as CISE

AD. Jahanian did an excellent job positioning CISE at the center of many NSF-wide and government-wide research initiatives during his tenure. Kurose joins an agency led by a new director in Córdova and faces the challenge of making CISE as relevant to national research priorities for her as it was to previous NSF Director Subra Suresh.



But my own sense is that Kurose is more than up to the task. He's been a highly effective and respected member of the CRA Board during his tenure, demonstrating an ability to listen to others thoughtfully, process input objectively, and drive successful projects. Those skills will suit him well in Ballston (and Alexandria, after NSF moves) and on the Hill. We certainly will do what we can to help and wish him the best of luck in his new role!

Nominations Open for 2015 CRA Award for Outstanding Undergraduate Researchers

By CRA Education Committee



CRA-E
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Association
Education

AWARD STRUCTURE HAS CHANGED FOR 2015

The Computing Research Association is pleased to announce the annual CRA Award for Outstanding Undergraduate Researchers, which recognizes undergraduate students in North American colleges and universities who show outstanding research potential in an area of computing research. The award is a terrific way to recognize your best student researchers and your department.

Eligible nominees are enrolled as undergraduates in a North American college or university throughout the academic year September 2014 to May 2015. They must be nominated by two faculty members and recommended by the chair of their home department. **Departments that grant Ph.D.s in one of the computing fields may nominate up to two male and two female students per year. Departments that do not grant Ph.D.s in one of the computing fields may nominate up to one male and one female student per year.**

There will be up to one female and one male winner from Ph.D. granting departments and up to one female and one male winner from non-Ph.D.-granting departments.

A small number of other outstanding candidates will be recognized as Runners-Up and Finalists. All nominees whose work is considered to be exemplary are recognized with Honorable Mentions.

Everything you need to nominate a candidate – instructions and the nomination form – is available at: <http://www.cra.org/awards/undergrad/>.

Microsoft Research (MSR) and Mitsubishi Electric Research Labs (MERL) sponsor the Outstanding Undergraduate Researchers Award Program in alternate years. The 2015 award is being sponsored by MSR.

Please share this information with your faculty who may have promising students to nominate.

Nominees Sought for CRA Board

The Computing Research Association seeks your help in suggesting nominations for its Board of Directors. We seek individuals who have time, energy, initiative, and resources to work on CRA issues on behalf of the entire CRA community. Ours is a working board, and all members are expected to do a fair share of the work.

The 32 member Board provides the membership for various standing committees, including the Communications, Government Affairs, Snowbird Conference, Taulbee Survey, Finance, and Elections committees. In addition, issues affecting computing research arise unexpectedly and Board members must take the initiative and lead CRA's responses. Many CRA committees and initiatives involve year-round attention, regular conference calls, communications with lab directors and department chairs, proposal writing, and sometimes travel at the expense of the individual Board members.

The Board as a whole meets twice a year, with travel and hotel costs paid by the individual members. Board members serve staggered three-year terms. At the discretion of the Elections committee and based upon a member's proactive service record during the expiring term, members wishing to stand for re-election may be included on the draft ballot. There is a three term limit. Candidates need not be affiliated with CRA member organizations. Anyone can nominate a candidate but candidates must agree to be nominated.

Recent board activities include:

- ▶ Working with the computing research community to envision the future computing research.
- ▶ Increasing the participation of women and minorities in computing research.
- ▶ Thinking strategically about computing education and its impact on the research enterprise.
- ▶ Testifying before Congress and meeting with policymakers to explain the role of computing and computing research
- ▶ Developing workshops on critical policy issues



- ▶ Planning the biennial CRA Conference at Snowbird
- ▶ Conducting the annual CRA Taulbee Survey
- ▶ Monitoring the CRA's budget and expenses

Important dates and events:

- ▶ The deadline for receipt of nominations is December 5, 2014. The Elections Committee will carefully consider all nominations, with the aim of a final ballot containing about twice as many candidates as there are open slots. Important criteria considered by the committee will include distribution of candidates and current Board members among member institutions, distribution among types and sizes of institutions, evidence of leadership, and evidence of interest in and capacity for service beyond that expected of all faculty members and researchers.
- ▶ On January 16, 2015, the Elections Committee will announce the draft ballot. Additional names may be added by the CRA community as described below.
- ▶ On February 6, 2015, nominations by petition are due. Each such nomination must be signed by the heads of at least 10 Constituent Member Organizations that are current in dues payment. Current CRA members are listed at <http://cra.org/about/members-list/>.
- ▶ On February 13, 2015, final ballots will be distributed to all CRA department chairs and lab directors. Each will have one vote for each open slot on the board.

► On February 27, 2015, completed ballots must be returned to CRA.

Additional information on CRA and its activities is available on the Web at <http://www.cra.org>.

Nomination forms and additional information are available at <http://www.cra.org>.

Questions can be sent to elections [at]cra.org.



New CRA Board Members along with CRA Executive Director and Board Chair at the 2014 CRA Conference at Snowbird. From left to right: Andrew Bernat, Susanne Hambrusch, Andrew Sears, Nancy Amato, J Moore, Barbara Ryder, Dan Grossman, and Gregory Hager.

Nominations Open for CRA Service and Habermann Awards

The Computing Research Association invites nominations for the CRA Distinguished Service Award and the A. Nico Habermann Award for 2015.

Distinguished Service Award

CRA makes an award, usually annually, to a person who has made an outstanding service contribution to the computing research community. This award recognizes service in the areas of government affairs, professional societies, publications or conferences, and leadership that has a major impact on computing research.

See "Guidelines for Nominators"

A. Nico Habermann Award

CRA makes an award, usually annually, to a person who has made outstanding contributions aimed at increasing the numbers and/or successes of underrepresented groups in the computing research community. This award recognizes work in areas of government affairs, educational programs, professional societies, public awareness, and leadership that has a major impact on advancing these groups in the computing research community. Recognized contributions can be focused directly at the research level or at its immediate precursors, namely students at the undergraduate or graduate levels.

See "Guidelines for Nominators"

Click here for a [list of previous recipients](#) of these two awards.

Nomination Process

Send a nomination letter (no longer than two pages) that describes the contributions on which the nomination is based to awards [at] cra.org. Refer to the appropriate "Guidelines for Nominators" for the award. Include the candidate's current curriculum vitae. Questions or comments may be addressed to awards [at] cra.org.

Nominators are responsible for collating the nomination materials before e-mailing the complete package to: awards [at] cra.org. The deadline for receipt of nominations is December 12, 2014.

Current members of the [CRA Board of Directors](#) are not eligible for these awards.



CCC Aging in Place Workshop: Articulating a research vision for technologies that enhance the lives and independence of aging adults

From the CCC Blog



Computing Community
 Consortium
 Catalyst

On September 10-11, the CCC co-hosted a **visioning workshop** focused on technologies that will allow older adults and people with disabilities to “age in place,” remain in their homes longer, reduce health care costs and enhance quality of life. CCC partnered with the National Institutes of Health (NIH) to organize the “Trans- NIH/Interagency Workshop on the Use and Development of Assistive Technology for the Aging Population and People with Chronic Disabilities.” Held on the NIH campus in Bethesda, MD, the engaging workshop brought together a diverse set of experts – computer science researchers, medical practitioners, and government officials from numerous agencies (NIH, NSF, NIDRR, HUD, VA, FDA, CMS), to chart a course for the research agenda needed to advance technologies that will allow seniors to age in place.

The collaborative workshop was a combination of introductory remarks to set the context by representatives from NIH and the computing community, panel presentations, and open discussions around the current state of research and future research needs.

An overview of the panel discussions are listed below:

Insights and Realities of Designing for Older Adults and Their Caregivers

This panel discussed the challenge of designing technologies that are useful as older adults healthcare needs evolve and developing principles for “future proofing” technology. A key theme was planning for dynamic diversity when working in this space, as individuals’ needs are constantly changing.

Innovation Needed: Sensing, actuation and system integration technology

This session highlighted many of the possibilities of Aging in Place technologies, while acknowledging the many challenges: the “system” is very complex and ever changing, there is a lot of data, but working with that data can be difficult, and privacy concerns.

Health transition trajectories: data to action

This panel discussed technologies designed to support independence and physical health as people need help to do that which they are no longer able to do on their own. A key take-away from this conversation was the importance of care coordination for people.

How to integrate Aging in Place in a Learning Healthcare System

Leaders discussed effective integration of technology to support the aging population and their caregivers, showcasing models that work in varied settings and how we can take advantage of the Internet of Things.

Shaping the future of Aging in Place

The panelists discussed the current ecosystem and what would be needed in a research agenda to inform regulatory and funding agencies.

After the panels, an engaging summary session identified steps for moving forward. Participants discussed short and long term priorities. These priorities will be summarized in a published report, along with a research roadmap.

All of the presentations can be found with the workshop agenda [here](#).

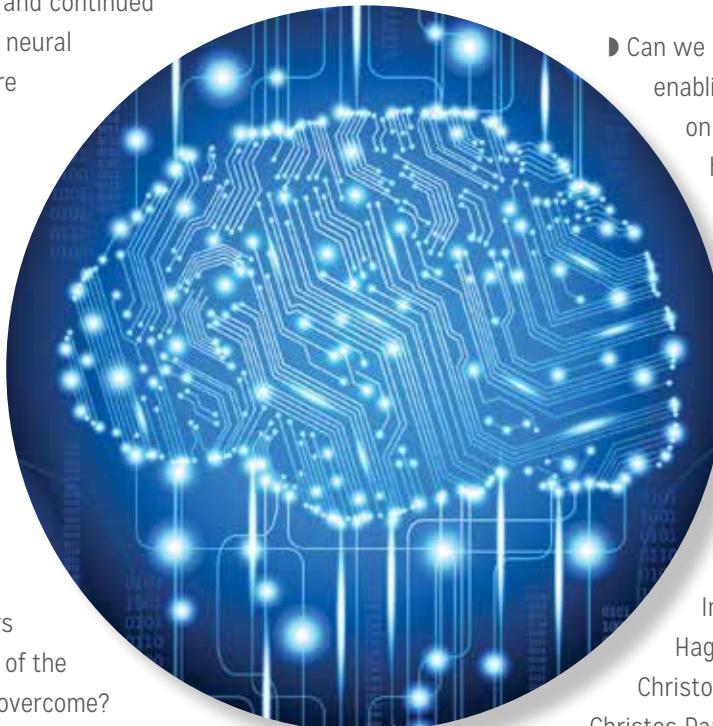
CCC to hold a workshop on the Research Interfaces between Brain Science and Computer Science



The Computing Community Consortium (CCC) will hold a BRAIN Workshop to bring together brain researchers and computer scientists for a scientific dialogue aimed at exposing new opportunities for joint research.

Today, understanding the structure and function of the human brain is one of the greatest scientific challenges of our generation. Decades of study and continued progress in our knowledge of neural function and brain architecture have led to important advances in brain science, but a comprehensive understanding of the brain still lies well beyond the horizon. How might computer science and brain science benefit from one another? The workshop will be aimed at questions such as the following:

- ▶ What advances are needed in hardware and software to enable true brain-computer interfaces? What is the right “neural language” for communicating with the brain?
- ▶ How would one be able to test equivalence between a computational model and the modeled brain subsystem?
- ▶ Suppose we could map the network of billions nodes and trillions connections that is the brain, how would we infer structure?
- ▶ Can we create open-science platforms enabling computational science on enormous amounts of heterogeneous brain data (as it has happened in genomics)?
- ▶ Is there a productive algorithmic theory of the brain, which can inform our search for answers to such questions?



The workshop organizing committee includes Polina Golland, Massachusetts Institute of Technology; Gregory Hager, Johns Hopkins University; Christof Koch, Allen Institute; Christos Papadimitriou (Chair), University of California at Berkeley; Hanspeter Pfister, Harvard University; Tal Rabin, IBM; Stefan Schaal, University of Southern California; Joshua Tenenbaum, Massachusetts Institute of Technology; Kenneth Whang, National Science Foundation; Ross Whitaker, University of Utah; and Ann Drobnić, CCC Director.

The workshop will be held December 3-5 in Washington, DC. Additional information about the workshop can be found on the [website](#). If you have any questions, please feel free to contact Ann Drobnić at adrobnis@cra.org.

Congress Won't Finish Appropriations or COMPETES Authorization this Year

Computing Researchers Come to DC to Make Case for Computing

By Brian Mosley, CRA Policy Analyst

Despite hopes at the beginning of the year of Congress returning to regular order with regard to appropriation bills, the body has slide back into its old form of passing stopgap Continuing Resolutions (CR) to fund governmental operations. The good news is both chambers learned

their lesson from last year and will not play chicken with a shutdown of the government – or at least, not before they stand before the voters in the November midterm elections.

The House passed the current CR on Wednesday September 17th and by the Senate the next day, followed quickly by the President's signature on September 19th. It will fund the government at Fiscal Year (FY) 2014 levels through December 11th, with the expectation that Congress will return before then and pass an omnibus bill containing funding language for all twelve individual appropriation bills. From a good governance standpoint, both Appropriations committees want to take care of FY15 this calendar year because the expectation is that there will be no time next year to handle two fiscal year appropriations. However a more important element in the calculus is who wins control of the Senate in the midterm elections.

Should the Senate be won by the Republican Party in November, there is a very good chance that Congress will punt approval of the FY15 appropriations bills to early 2016, when the party will control both chambers of Congress. If the Democrats retain control of the Senate, the likelihood of FY15 being settled in December, when Congress returns for its lame duck session, is much more likely, as it will be the same power dynamic in 2015 calendar year as it is now.



From the perspective of the science research community broadly, and computing research specifically, we are being caught up in larger political issues once again. It's unclear at this time how the science agencies, such as the National Science Foundation, would fare in an omnibus funding bill. While NSF did relatively well in the House (where appropriators approved a 3.3 percent increase), Senate appropriators would only fund the agency at the level of the President's request (1.2 percent increase). So where an omnibus bill would fall is an open question at this time; it could split the difference, or it could go to the higher or lower number.

FIRST Act and COMPETES Act Reauthorization

As you will recall from our previous coverage, the House Science, Space and Technology Committee majority's attempt to reauthorize the America COMPETES Act of 2010 – which provided increases in authorizations for NSF, the National Institute of Standards and Technology and the Department of Energy's Office of Science, as well as bolstering a number of Federal STEM Education programs – met with disappointment from the science advocacy community. The bill suffered from lackluster funding authorizations, over-reaching open access provisions, and problematic language in the name of "enhancing NSF accountability." As a result, the bill was stridently opposed by the committee Democrats and looked to be headed for a somewhat bitterly-partisan approval. Fortunately, a desire to work together prevailed on the committee, and non-contentious sections of the FIRST Act were stripped out to form stand-alone bills in the hope of getting something passed this Congress.

Computer science was one of the first beneficiaries of this new approach: H.R. 5031, the "STEM Education Act of 2014." This bill is made of three parts (it is actually a very short bill: <http://cra.org/govaffairs/blog/wp-content/uploads/2014/07/HR-5031-STEM-Bill.pdf>). The first part, which is of most importance to the CS community, is the explicit inclusion of Computer Science in the definition of "STEM education." The inclusion of CS in STEM is aimed at ensuring that CS won't get left out of future STEM Ed initiatives at the Federal level (at least at NSF, NASA, NOAA, Energy, and NIST...the agencies under the jurisdiction of the Science Committee). The bill also authorizes STEM agencies to fund research that

advances the field of informal STEM education and expands the NSF Noyce Scholarship Program to include awardees with bachelor's degrees (currently only people with master degrees qualify) and provide funding authorization to support NSF Master Teacher Fellows for a year. All three of these provisions are largely bipartisan and funding neutral. HR 5031 was passed by the full House chamber in early July and is now awaiting action in Senate.

The other bills introduced are:

- * HR 5035 – A bill to reauthorize the National Institute of Standards and Technology, and for other purposes.
- * HR 5056 – A bill to improve the efficiency of Federal research and development, and for other purposes.
- * HR 5029 – A bill to provide for the establishment of a body to identify and coordinate international science and technology cooperation that can strengthen the domestic science and technology enterprise and support United States foreign policy goals.

All are non-controversial. HR 5056 sounds ominous, given "NSF accountability" language in FIRST, but it's just a bill calling on OSTP to put together a working group to study how to "harmonize, streamline, and eliminate duplicative Federal regulations and reporting requirements, and minimize the regulatory burden on US institutions of higher education performing federally funded research while maintaining accountability for Federal tax dollars." All of the above bills were passed by the full House chamber and are awaiting action in the Senate.

On the Senate side, at the end of July the Senate Commerce, Science, and Transportation Committee finally released the American COMPETES Reauthorization Act of 2014 (S. 2757). This is the long awaited Senate Democrat response to the FIRST Act. The hope was that this bill would be a true reauthorization of the original America COMPETES Act of 2007 and be bipartisan in nature.

The language of the bill is excellent: three years of appropriations, with healthy funding increases, for NSF, NIST, and DOE SC (FIRST Act only had two years, one being FY14, the then present fiscal year); strong support for peer review research and the way the science agencies are choosing what research is funded; and strong support

for STEM education. It can be said this bill was a clear sign of support for the science agencies and the scientific community.

Unfortunately, the bipartisan support did not materialize: we received word in early September that the Commerce Committee was shelving plans to bring the bill up for a vote because it would have passed on a party line vote, with no Republican support. To give some perspective, the original COMPETES Act, in 2007, and its first reauthorization in 2010, passed the Senate on voice votes with no opposition. This means that reauthorizing COMPETES in this Congress is dead, as there is no more time on the Congressional schedule for it to be considered.

It is likely COMPETES will return in the 114th Congress, though in what form is still an open question. However, the likelihood is that science will continue to be used as a political messaging weapon by both parties. In short, expect something more like the FIRST Acts and less like a COMPETES reauthorization in the next Congress.

The CRA Government Affairs Office will continue to monitor this situation for developments. Be sure to check the CRA Policy Blog for more updates: cra.org/govaffairs/blog

Computing Researchers Fly-in to DC to Make the Case for Computing

On September 17th, over two dozen computing researchers from across the country came to Washington to make the

case before Congress for federally supported computing research. The 27 volunteers, coming from as near as Maryland and New Jersey, and as far away as Utah and Kansas, participated in 60 House and Senate meetings on Wednesday September 17th. Their message to Congress was very simple: federally supported computing research is vital to the nation's future. Using their own research and individual stories as support, and armed with additional information from CRA, they made the "Federal case" for computing to Members of Congress and their staff. Just as important as the message they carried, they also made connections with those who represent them in DC. Those Members now know a little about the expertise and interesting (and important) work that goes on in their districts and states, and our participants have a sense of just who represents them in Congress – and they've hopefully created a lasting dialogue on both sides.

As a reminder, if you would like to participate in a future Congressional Visit Day, or if you are in Washington and would like to visit your representative's office, contact Brian Mosley (bmosley@cra.org) in the CRA Government Affairs Office. CRA can provide expert training, messaging, and materials, and we would be happy to accompany you on your meetings as well.

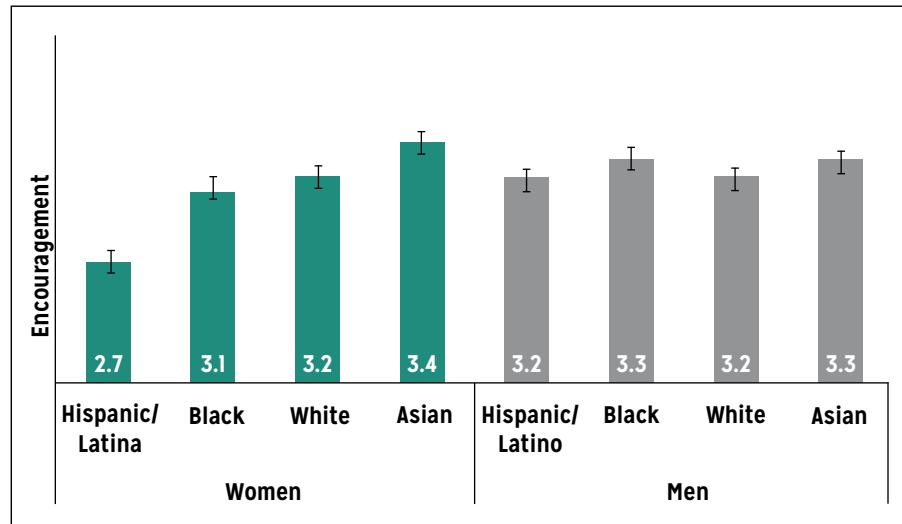


2014 Congressional Visit Day Participants

Race is associated with encouragement to pursue computing among women, but not men.

By Jane Stout, CERP Director

We asked undergraduate students to indicate the degree to which receiving encouragement from family, friends and teachers led them to pursue a major in computing. Among women, race mattered, $p < .05$: Hispanic women/Latinas were least likely to have reported their decision to major had been driven by encouragement from others; Asian women were most likely to report their interest in majoring had been driven by encouragement from others, and Black and White women's responses and Black and White women's responses fell in the middle. Men's level of encouragement did not differ by race, $p > .05$. Together, this finding highlights the differential experiences of students in computing as a function of gender as well as race.



Note: 366 women (40 Hispanic/Latina; 23 Black; 221 White; 82 Asian) and 1083 men (142 Hispanic/Latino; 54 Black; 716 White; 171 Asian) responded to the following: *I selected computing as my major because... Family member(s) encouraged me to pursue computing; A friend(s) encouraged me to pursue computing; A former teacher encouraged me to pursue computing*, using a scale of (1) Strongly disagree to (5) Strongly agree. Responses to the three types of encouragement questions were aggregated to form a single composite measure. Group means are presented in each bar; error bars indicate each group's standard error value. Importantly, this analysis statistically controlled for whether or not students were first generation college students, as well as students' age. Thus, the observed effects of gender and race on reported encouragement occurred above and beyond any effect of being a first generation college student, or one's age on being encouraged to pursue computing.



This analysis is brought to you by the CRA's Center for Evaluating the Research Pipeline (CERP). CERP provides social science research and comparative evaluation for the computing community. To learn more about CERP visit our website at <http://cra.org/cerp/>.

NSF and Intel collaborate, host their first joint Ideas Lab

By Julia Figliotti, KnowInnovation



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In mid-August, the [National Science Foundation](#) (NSF) and CRA once again hosted the [KnowInnovation](#) (KI) team to run an Ideas Lab, aimed at gathering research and funding proposals in the field of Cyber-Physical Systems security and privacy. But this year was different: for the first time in Ideas Lab history, the NSF partnered with [Intel](#) to bring together some of the country's brightest minds in the field. And after a rigorous application and selection process, the chosen participants gathered for their five-day intensive proposal workshop for the potential to be awarded a grant between \$500,000 and \$3 million.

Over the course of five days, the participants were challenged with individual, paired, and group activities aimed at getting their creative juices flowing. In the beginning, these guided activities served to loosen up the participants as well as introduce the mentors, participants, and funders to one another. But as the week progressed, participants began to buckle down and facilitators began to back off.

During an Ideas Lab, it is very common for participants to change groups a few times over. The KI team was happy to encourage this behavior – the point is to inspire a set of innovative and multi-disciplinary proposals, and that requires the

Day One dawned warm and rainy as funders, participants, and mentors filed into the Waterview Conference Center in Arlington, VA. After filling out nametags and more than a few grumbles about "homework during breakfast," the participants dove right in to answer the ice-breaking questions:

- 1. What big problem in CPS trustworthiness, security, and privacy are you hoping to solve?*
- 2. What big problem in CPS trustworthiness, security, and privacy are you hoping someone else will solve?*

participants to be passionate about their topic of choice. On Day One, participants have general ideas of the problems they hope to solve. By Day Two, they have thrown those ideas out the window and are often left feeling apprehensive – how will they ever come up with a legitimate proposal in the next three days? But Day Three usually wraps up with optimism and smiles from participants and mentors alike, and it's all uphill from there.

"I was impressed how well the group of participants worked together," said [Keith Marzullo](#), the Deputy Director of CISE at the NSF and one of the funders of this Ideas Lab. "KI advised the panel that selected the white papers about applicants' tendencies towards collaboration, and we had a group that were eager to work together."



"The participants' depth of specialized subject matter expertise was impressive," added [Ed Liebow](#), the Executive Director for the American Anthropological Association and one of several mentors at the event, "as was their willingness to sort themselves into productive teams and quickly hatch some promising kernels of novel and significant research projects."

Jesse Walker, Network and Security Architect at Intel and a co-founder of the Ideas Lab, described the atmosphere that is so often constructed during an

Ideas Lab. "The workshop process was quite invigorating and helped us to deal constructively with a large number of new personalities and points of view in short order," he said. "The intense non-stop atmosphere was amazingly stimulating."

One of the main attractions of an Ideas Lab is the diversity of the participants. The purpose of drawing from a multi-disciplinary group is to stimulate unusual approaches that can produce novel research proposals.

"Thinking about the social, economic, and legal implications of the technology is going to be an important dimension of the research," said Walker, reflecting on the inclusion of a more diverse group of participants, "because if we do not, then the technology has the potential to create very large new classes of political dissidents and permanently economically disadvantaged."

Walker is not alone on this front. Liebow said, "Any topic, but especially topics concerning appropriate technology development, requires substantive input from social and behavioral scientists."

Unlike some previous Ideas Labs, this workshop did not end with a grant announcement. Instead, the workshop was a way for participants to create draft proposals, and to receive feedback from the funding team. The joint [NSF/Intel solicitation](#) closes on October 28th, and is open to anyone, whether or not they attended the Ideas Lab.

Overall, the event produced several interesting, and unusual, ideas that the funders would like to see developed into full proposals.

To learn more about Ideas Labs please read the PLOS paper on [Assembling the Tree of Life](#), or explore some of the articles on the [Knowinnovation website](#).



Cybersecurity Awareness Month: Highlighting NSF Cybersecurity Efforts

by Keith Marzullo, Division Director, Division of Computer and Network Systems,
and Gera Jochum, Communications Specialist, Directorate for Computer & Information Science & Engineering,
National Science Foundation

In recognition of [National Cyber Security Awareness Month](#), we want to highlight some of NSF's recent activities in this area. The Internet and cyber-enabled systems have become a part of our everyday lives. We surf the web for the day's news; we use email and social applications like Facebook, Twitter, and LinkedIn to stay connected to our family, friends, and colleagues; we go online to access our bank accounts, make purchases, and transfer money; and we depend on cyber-connected physical systems to fly our planes, control the power grid, run medical devices, and so much more.

These dependencies leave us vulnerable to a wide range of threats that challenge the security, reliability, availability, and overall trustworthiness of information technology resources. Solutions require a holistic approach, grounded not only in technology but also extending to economics (e.g., understanding the economic incentives and models), social and behavioral sciences (e.g., what makes some people more vulnerable than others), and education (e.g., preparing both future cyber warriors and informed citizens).

Here are four recent cybersecurity efforts involving [NSF](#):

Input Requested for the National Privacy Research Strategy

The President's Council of Advisors for Science and Technology ([PCAST](#)) has [called for](#) increased federal investments for the science and technology underlying privacy. In response, and at the request of the White House Office of Science and Technology Policy ([OSTP](#)), a National Privacy Research Strategy is being developed by the Cyber Security and Information Assurance Research and Development Senior Steering Group ([CSIA R&D SSG](#)), which is part of the interagency Networking and Information Technology Research and Development ([NITRD](#)) program. The strategy will be used to guide federally-funded privacy research and provide a framework for coordinating research

and development in privacy-enhancing technologies. [Input is requested](#) by October 17, 2014 on the key privacy objectives that should be considered in formulating the strategy. In order to fully consider stakeholder feedback, the group plans to draft the strategy within a year and hold a workshop for community discussion before presenting a final draft to [OSTP](#).

Advancing Security and Privacy in Cyber-Physical Systems

NSF and Intel have formed a new [partnership](#) to advance the security and privacy of cyber-connected physical systems (e.g., embedded medical devices, autonomous vehicles, smart cities, and a myriad of other systems that are enabled by the emerging Internet of Things). This partnership combines [CISE](#)'s

experience in developing and managing successful large, diverse research portfolios with Intel's long history of building research communities in emerging technology areas through programs such as its Science and Technology Centers program. As part of this partnership, NSF and Intel sponsored an Ideas Lab on August 12-16, 2014, that brought together leading researchers from the cybersecurity, privacy, and cyber-physical systems communities in order to foster new multidisciplinary research collaborations. Much discussion focused on how the physical aspects of the systems could affect security and privacy. Later this month (October 28, 2014), full proposals to the program solicitation are due. Applicants need not have participated in the Ideas Lab to submit a full proposal.

Great Ideas from a NSF-funded Workshop to Enhance the Security of the Internet

A new workshop report, [Interdisciplinary Pathways towards a More Secure Internet](#) suggests 16 ideas for enhancing the security of the Internet ecosystem. The recommendations are clustered by themes (technology, policy, and leadership) and range from accelerating new foundational research areas to creating new organizations, comparable to the National Transportation Safety Board, charged with responding to cyber attacks. These recommendations are the result of a NSF-sponsored [Cybersecurity Ideas Lab](#) held on February 10-12, 2014, with a multidisciplinary group of participants drawn from academia, government, and industry. The report focuses on the most robust of the ideas discussed at the workshop, rather than presenting a comprehensive strategy.

Changes to the Secure and Trustworthy Cyberspace (SaTC) Solicitation

NSF's flagship cybersecurity program is the Secure and Trustworthy Cyberspace (SaTC) program. There are over 650 active awards through SaTC and its legacy programs, and, in this last fiscal year (FY 2014) alone, [we invested nearly \\$75M](#) to support more than 225 new projects.

The most recent SaTC program [solicitation](#) posted in August 2014 has a couple noteworthy changes. The partnership with the Semiconductor Research Corporation (SRC) for Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (STARSS) will continue as a perspective within the SaTC solicitation. Projects submitted to the STARSS perspective must focus on protecting hardware and may include industry collaboration through the Transition to Practice (TTP) option. During the [FY 2014 STARSS competition](#), 9 projects in 10 universities were supported.

There has also been a change to the project size classes in the SaTC program. In order to balance our research portfolio, Large projects are being offered in lieu of Frontier projects. Large projects should be multi-disciplinary, multi-organizational, and/or multi-institutional and may request \$1,200,001 to \$3,000,000 for durations of up to five years.

In closing, these recent activities continue NSF's legacy as the global leader in enabling security and privacy of the Internet and of cyber-enabled systems. Community engagement is a vital component of these efforts. We look forward to continuing to work with you to ensure our nation remains a world leader in innovating secure technologies and solutions.

In recognition of Cyber Security Awareness Month, [Stop.Think.Connect](#). Join a national public awareness campaign to increase the understanding of cyber threats and empower the American public to be safer and more secure online.



STOP | THINK | CONNECT

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Expanding the Pipeline
Patty Lopez, Intel

Professional Opportunities

American Association for the Advancement of Science

2015-16 AAAS Science & Technology Policy Fellowships

The American Association for the Advancement of Science is the world's largest general scientific society, dedicated to advancing science for the benefit of all people, and publisher of the Science family of journals. We are pleased to announce that applications are now being accepted for the 2015-16 AAAS S&T Policy Fellowships® year. Policy fellowships provide computer scientist with the unique professional development opportunity to apply their knowledge and skills to national and international issues in the federal policy realm. Fellows serve yearlong assignments in the executive, legislative and judicial branches of the federal government in Washington, DC.

S&T Policy fellows represent a broad array of science and engineering fields. Fellows share an interest and commitment to public service, a desire to learn about science and technology policy, and a willingness to apply their background in new arenas.

Computer scientists who have solid scientific and technical credentials, demonstrate a commitment to public service, strong communication skills, problem-solving ability, good judgment, flexibility, and leadership qualities, are encouraged to apply.

For over 40 years, scientists and engineers have applied their knowledge and technical expertise to policy-making while developing valuable career enhancing skills. Join a network of more than 2,800 current and alumni Fellows impacting policy and forging new careers.

QUALIFICATIONS:

- Doctoral-level degree (PhD, MD, DVM, DSc, etc.) in any scientific, social science or engineering discipline OR Master's in

engineering with 3 years of engineering related professional experience.

- US citizenship.

STIPEND & BENEFITS:

- \$75,000-\$100,000.
- Health insurance, travel/training and relocation allowances.

ONLINE APPLICATIONS DUE: November 1, 2014

FELLOWSHIP YEAR: September 1, 2015 – August 31, 2016

For more information and to apply visit:

aaas.org/policy-fellowships/orange

Questions? Email: fellowships@aaas.org or call 202-326-6700

Boston University

Department of Computer Science

Assistant Professorships (Tenure Track)

Applications are invited for two tenure-track assistant professorships beginning July 2015. Qualifications required of all applicants include a Ph.D. in Computer Science or related discipline, a strong research record, and a commitment to teaching at the undergraduate and graduate levels. All research areas of Computer Science will be considered. Particular attention will be given to candidates pursuing research in computer systems, data-centric computing, interactive computing, and algorithms.

The Department consists of 20 faculty members, and offers programs leading to B.A., M.S., and Ph.D. degrees. The Department has research strengths in data mining, databases, image and video computing, networking, operating systems, programming languages and formal methods, real-time systems, security and cryptography, and theory of computation and algorithms. In addition, members of the Department have close collaborative relationships with faculty in mathematics and statistics, computer engineering, and biology, among others. Additional information on the Department is available at <http://www.bu.edu/cs>.

Qualified applicants should apply at: <https://academicjobsonline.org/ajo/jobs/4436>

Review of applications with reference letters will begin December 15, 2014.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

The American University of Beirut

Department of Computer Science

Faculty Positions in Computer Science

The Department of Computer Science at the American University of Beirut invites applications for faculty positions in computer science to begin September 1, 2015. Strong candidates from all areas of computer science are encouraged to apply and will be considered. Areas of particular interest include: 1-High Performance Computing and/or Cloud Computing; 2-Digital Imaging and Video Processing; 3-Natural Language Processing (NLP) with expertise in machine learning and/or data mining; 4-Big Data Analytics. Candidates must have a PhD in computer science or a closely related field by the time of appointment. Positions are normally at the assistant professor level for four years, but appointments at higher ranks will also be considered.

Review of applications will begin on December 1, 2014 and will continue until the positions are filled. For more information please visit <http://www.aub.edu.lb/fas/pages/academic-employment.aspx>

The American University of Beirut is an Equal Opportunity Employer.

Professional Opportunities

Brooklyn College

Assistant Professor - Computer Science (Multimedia) -Job# 11204

The Department of Computer and Information Science (CIS) at Brooklyn College - CUNY invites applications for a tenure-track Assistant Professor position beginning Fall 2015. The successful candidate will be required to teach introductory and advanced undergraduate and/or graduate courses in computer science; conduct research in the field; and seek grant funding.

We are seeking candidates who are committed to undergraduate and graduate education at a public, urban institution that serves a highly diverse student body. The individual selected will also help develop multimedia courses and curricula for the department.

Review of applications begins October 30, 2014. For more information and to apply, visit www.brooklyn.cuny.edu/facultyjobs. AA/EOE.

California State Polytechnic University, Pomona

Computer Science Department -

<http://www.csupomona.edu/~cs/>

Tenure-Track Position

The Computer Science Department invites applications for a tenure-track position at the rank of Assistant Professor to begin Fall 2015. We are particularly interested in candidates with specialization in Software Engineering, Cloud Computing, Data Mining, or Computer Graphics and Animation. 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 1, 2015, a Ph.D. in Computer Science or closely related area. Demonstrate strong communication skills, 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 November 14, 2014. 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.

California Institute of Technology

Computing and Mathematical Sciences

Tenure-Track Faculty Position

The Computing and Mathematical Sciences (CMS) Department at Caltech invites applications for a tenure-track faculty position. Our department is a unique environment where innovative, interdisciplinary, and foundational research is conducted in a collegial atmosphere. We are looking for candidates who have demonstrated exceptional promise through novel research with strong potential connections to natural, information, and engineering sciences. Research areas of particular interest include applied mathematics, computational science, as well as computing. A commitment to high-quality teaching and mentoring is expected.

The initial appointment at the assistant professor level is for four years and is contingent upon the completion of a Ph.D. degree in Applied Mathematics, Computer

Science, or related field. Exceptionally well-qualified applicants may also be considered at the full professor level.

To ensure the fullest consideration, applicants are encouraged to have all their application materials on file by December 28, 2014. For a list of documents required and full instructions on how to apply on-line, please visit <http://www.cms.caltech.edu/search>. Questions about the application process may be directed to: search@cms.caltech.edu. Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

Carleton College

Department of Computer Science

Tenure-Track Position in Computer Science

Carleton College invites applications for a tenure-track position in computer science, in any area of specialization, to begin September 1, 2015. More details on this position can be found at: <https://jobs.carleton.edu/postings/2061>.

Carleton is a highly selective liberal arts college with outstanding, enthusiastic students. We seek an equally enthusiastic computer scientist committed to excellence in teaching, curriculum design, ongoing research, and undergraduate research advising. We are particularly interested in candidates committed to teaching a diverse student body.

To apply, please visit jobs.carleton.edu and complete the online application, including a cover letter, CV, brief statements describing teaching philosophy and research agenda, a graduate transcript, and contact information for writers of three letters of reference (at least one of which should address your teaching). Applications completed by December 15, 2014, including reference letters, will receive full consideration.

Professional Opportunities

Carleton College is an affirmative action/equal opportunity employer. We are committed to developing our faculty to better reflect the diversity of our student body and American society. Women and members of minority groups are strongly encouraged to apply.

Case Western Reserve University

Engineering Strategic Hiring Initiative

Case Western Reserve University's Engineering Strategic Hiring Initiative continues in 2014 and beyond with a focus on recruiting extraordinary faculty in the broad areas of advanced materials, energy and human health. Research clusters identified as strategic priorities and opportunities for the Case School of Engineering include Biomolecular Engineering, Fire and Materials Flammability, Informatics, and Translational Biomaterials.

Informatics is seeking candidates in the area of informatics, including engineering epidemiology, materials genome, and biomedical/health informatics. Candidates should be grounded in computer and information science or related areas, with an aptitude for interdisciplinary and translational teamwork. Areas of specific interest include big data management, convergence, mining, and analytics, with the creation of unique tools, methodology, and novel data resources (e.g. time-series, imaging, electronic medical records, sequence, and material properties).

The strategic hiring initiative has attracted outstanding junior and senior candidates interested in being part of a community determined to drive discoveries that improve people's lives. The Case School of Engineering values interdisciplinary thinking, creative collaboration and entrepreneurial ideas. It also believes strongly in the vital importance of diversity within the professorial ranks, both in terms of women and underrepresented minorities.

Successful candidates will hold primary appointments in the Case School of Engineering, although in many instances they will be eligible for additional appointments within the School of Medicine or College of Arts and Sciences, among others.

Candidates seeking positions at the Assistant Professor level and higher should hold an earned doctorate in a field of engineering or related science and demonstrate promise for research and teaching excellence. Those seeking these positions should provide the names and contact information of three references in addition to a cover letter, research and teaching statements and CV. Candidates seeking positions at the Associate Professor level should have established a significant research reputation nationally and possess a record of extramural funding. Candidates seeking positions at the level of full Professor should be recognized internationally for research excellence, leadership and scholarship in their discipline.

We welcome all nominations and applications. For additional information, please visit <http://engineering.case.edu/strategichiring/> or contact Dean Jeffrey Duerk at cseinterest@case.edu.

In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply.

Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants desiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Inclusion, Diversity and Equal Opportunity at 216-368-8877. Determinations regarding granting accommodations will be made on a case-by-case basis.

Colby College

Tenure-Track Position in Computer Science

Colby College invites applications for a tenure-track Assistant Professor position in computer science, beginning on September 1, 2015. Applicants must hold, or be close to completing, a Ph.D. in computer science, computer engineering, or a related area with a preference for applicants with a background in systems (e.g. architecture, operating systems, networks, or databases).

For more information and required materials, see cs.colby.edu. Review of applications will begin November 1, 2014, and continue until the position is filled.

Colby is a private, coeducational liberal arts college that admits students and makes personnel decisions on the basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. Colby College does not discriminate on the basis of race, color, gender, sexual orientation, gender identity or expression, disability, religion, ancestry or national origin, age, marital status, genetic information, or veterans status in employment or in our educational programs. Colby is an affirmative action/equal opportunity employer and operates in accordance with federal and state laws regarding non-discrimination. For more information about the College, please visit our website: www.colby.edu.

The College of Idaho

Tenure-Track Position

The College of Idaho invites applications for a tenure-track Assistant Professor of Computer Science, starting Fall 2015. The successful candidate will teach all levels of undergraduate computer science as well as specialized courses in mathematics or physics. Excellent teaching and mentoring are the College's highest priorities.

Professional Opportunities

Ph.D. is preferred, although applicants with extensive experience who hold an M.S. may apply.

Review of applications begins September 30, 2014, and will continue until the position is filled. Visit <http://www.collegeofidaho.edu/hr> for more information.

The College is proud to be an equal opportunity employer.

Columbia University

Associate Research Scientist

The Computer Science Dept is looking for an Associate Research Scientist with strong operating system research and development skills to participate in a new research project. The goal of the project is to create a new operating system that automatically evolves its resource management policies for better performance. Current operating systems such as Linux use hundreds of parameters. The values of these parameters are typically fixed at the time of release. Although Linux produces acceptable performance for some cases, in many other cases, its performance is quite poor, and users must tune the parameters to improve performance. This presents challenges for users who do not understand Linux internals. Our project try to solve this problem. Our proposal is to tune performance critical parameters automatically. To speed up the parameter tuning, we will develop a policy cache to store the optimal parameter settings experience before. In this way, we can speed up the searching. This job will try various kinds of searching algorithms and caching policies. To verify the effectiveness of the proposal, we will develop a system within the Linux kernel and apply it to several kernel subsystems

Minimum Qualifications: Candidate must have a PhD in relevant research field.

Expert Level knowledge of Linux kernel programming, Linux kernel performance tuning, search algorithms.

Preferred Qualifications: PhDs in computer architecture and security are preferred. Ability to conduct research as required with proven analytical and problem-solving abilities. Excellent project management skills and experience. Excellent written and oral communication skills. Excellent technical writing and technical documentation ability. Excellent interpersonal, communication and organizational skills with the ability to interact effectively with graduate students and faculty

Applications accepted online only:
academicjobs.columbia.edu/applicants/Central?quickFind=59689

Cornell NYC Tech

Multiple Senior Faculty Positions - #4470

Multiple senior faculty positions in computer science are available at Cornell's new Cornell NYC Tech campus in New York City. Faculty hired in these positions will be in the Department of Computer Science, which will span the Ithaca and New York City campuses, but their teaching and research will be based in New York City. We will consider only candidates at the Associate and Full Professor level, but will consider candidates from all areas of computer science and related fields. Candidates whose work fits into one of the three initial hubs at CornellNYC, Connective Media, Healthier Life, and Built Environment, are particularly encouraged.

Candidates must hold a Ph.D., must have demonstrated an ability to conduct outstanding research, and must also have a strong interest in the technology commercialization and entrepreneurship mission of the campus. In addition, interest in international programs and/or pre-college (K-12) education is advantageous.

This search may include Cornell faculty positions that are part of the Technion-Cornell Innovation Institute. To ensure full

consideration, applications should be received by December 1, 2014, but will be accepted until all positions are filled. Candidates should submit a curriculum vita, brief statements of research and teaching interests on-line at <https://academicjobsonline.org/ajo/jobs/4470>. Inquiries about your application may be directed to frecruit@cs.cornell.edu.

Cornell University is an equal opportunity, affirmative action educator and employer; qualified women and minority candidates are particularly encouraged to apply.

Diversity and Inclusion are a part of Cornell University's heritage. We are an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

Cornell University

Multiple Faculty Positions - #4463

The Department of Computer Science of Cornell University, based in Ithaca, New York, has multiple faculty positions open. Applications are welcome in all areas of computer science and related fields and at all levels, including tenured, tenure-track, and lecturer. Tenured and tenure track faculty must hold the equivalent of a Ph.D. Lecturers must hold the equivalent of a Masters degree, with a Ph.D. preferred. Applicants must have demonstrated an ability to conduct outstanding research. Successful candidates are expected to pursue an active research program, to teach graduate and undergraduate courses, and to supervise graduate students. The department is ranked among the top computer science departments in the country, with 35 tenured and tenure-track faculty members across all areas of computer science.

Cornell University is located in Ithaca, New York, a city of about 30,000 people in the heart of the Finger Lakes region. Both Cornell and Ithaca offer a wide range of cultural activities, sports, and outdoor activities with

Professional Opportunities

the pleasures of both city and country close at hand. Ithaca is Gorges!

To ensure full consideration, applications should be received by December 1, 2014, but will be accepted until all positions are filled. Applicants should submit a curriculum vita and brief statements of research and teaching interests, identify one or two publications to which they have made significant contributions, and arrange to have at least three reference letters submitted at: <https://academicjobsonline.org/ajo/jobs/4463>. Inquiries about your application may be direct to frecruit@cs.cornell.edu.

Diversity and Inclusion are a part of Cornell University's heritage. We are an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

Delaware State University

Department of Computer and Information Sciences

Assistant Professor (Tenure-Track)

College of Mathematics, Natural Sciences and Technology

Apply online at www.desu.edu

Applications will be accepted until the position is filled

As part of a major University initiative to expand research activities, the Computer and Information Sciences Department at Delaware State University (DSU) is accepting applications for a full-time tenure-track position at the Assistant Professor level. We seek an outstanding scientist whose research interests complement and augment existing strengths in the

Department and across the University, and who is committed to quality teaching.

The applicant must have a Ph.D. in computer science or a closely related field, experience in cybersecurity research, and appropriate experience in, or proven potential for, teaching. The successful candidate will be expected to develop an externally-funded research program, engage in a State of Delaware initiative to train students in Cybersecurity, and to teach graduate and undergraduate courses in cybersecurity, operating systems and networking, as well as CS/IT introductory courses. A long-term commitment to the development of a research program, including research training, is expected of the successful candidate.



THOMAS E. KURTZ CHAIR IN COMPUTATIONAL SCIENCE

Applications are invited for a tenured, full-professor faculty position and the inaugural holder of the Thomas E. Kurtz Chair in Computational Science at Dartmouth College. This is the first of several hires within Dartmouth's newly established William H. Neukom Academic Cluster, which will add three new faculty members in diverse fields, each of whom uses computational techniques in their teaching and research.

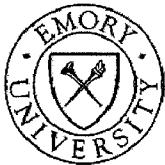
For the Kurtz Chair, the successful candidate will be an established leader in the field of **Computational**

and Engineering Principles of Intelligence, broadly defined as that area of computation associated with the development and application of computational approaches to solve the most difficult computational problems that, by their nature, are either not amenable to modeling from first principles or that have complex, poorly understood interacting components. The holder of the chair will have a primary appointment in one of several possible departments or professional schools, including Biology, Cognitive Science, Computer Science, Mathematics, Neuroscience (housed within Psychological and Brain Sciences), the Thayer School of Engineering, or the Geisel Medical School, with a strong potential for joint or adjunct appointments with other departments or schools. The Kurtz Chair holder will work with other schools, centers and institutes across campus, including the Neukom Institute for Computational Science, in developing Dartmouth's vision of becoming the institution in the dissemination and application of computational methods across teaching and research. The holder of the Kurtz Chair will be involved in the process of identifying disciplines for two additional future junior faculty lines, and will serve as part of the search process for those hires.

Dartmouth College is an equal opportunity/ affirmative action employer with a strong commitment to diversity. In that spirit, we encourage applications from a broad spectrum of people, including women, persons of color, persons with disabilities, veterans or any other legally protected group.

Review of applications will begin in December 2014 with an appointment start date of July 1, 2015 expected. A complete CV, research and teaching statements, and contact information for four references should be sent to: Search Committee Chair, Thomas E. Kurtz Chair in Computational Science, Office of the Provost, 6004 Parkhurst Hall, Room 102. Hanover, NH 03755-3529. Applications may also be submitted in PDF format via email to Kurtz.Chair.Search@dartmouth.edu.

Professional Opportunities



Faculty Positions in Data Science

EMORY UNIVERSITY
Atlanta, Georgia

Emory University Math & Computer Science is leading an initiative in **Data Science** to pioneer research and educational advances in this emerging multidisciplinary domain. This initiative builds upon current strengths in data-oriented topics within Computer Science, centered around six or more faculty positions and connects to new areas of emphasis across Emory.

Applications for Tenure-Track Positions at the Assistant Professor level are invited from exceptional candidates with outstanding research and teaching records (or promise) in fields related to Data Science. Truly eminent candidates may be considered for appointment at higher ranks, subject to administrative approval. Specific priority areas for this year's searches are:

Data Mining and Database Systems – Applicants must have a PhD in Computer Science or a closely related area, with specialization in data mining, databases, data and information management, data analysis, storage systems or related topics. The successful candidate will join a growing niche-excellent program in Computer Science within the Mathematics & Computer Science department (<http://www.mathcs.emory.edu>) and contribute to core scholarship and teaching at the undergraduate and graduate levels.

Machine Learning with Applications to Life Science Informatics – In partnership with Emory's strategic initiative in Computational Life Sciences, we seek an exceptional Machine Learning scholar, interested in applications to life sciences and medical informatics. Candidates must have a PhD in Computer Science, Informatics or Statistics. Primary appointment will be in Mathematics & Computer Science (<http://www.mathcs.emory.edu>); with possible secondary or courtesy appointments in Biomedical Informatics (<http://www.bmi.emory.edu>) or in Biostatistics and Bioinformatics (http://www.sph.emory.edu/departments_centers/bios/index.html).

Applications specifying one or more of the above areas and comprising a CV, research and teaching statements, and three to five letters of recommendation directly from recommenders, should be sent via email to cssearch2015@mathcs.emory.edu. Informal inquiries are also invited by email. Screening starts December 5, 2014 and will continue until positions are filled. Applications received upto 30 days after review begins will be given full consideration.

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

Interested candidates should submit, preferably via email, (1) cover letter outlining academic qualifications and experience for this position, (2) curriculum vitae, (3) a summary of research plans, (4) a list of publications, (5) a statement of teaching interests/philosophy, including student training in Cybersecurity, and (6) at least three letters of recommendation.

Please send applications to:

Ms. Sherron Stevens

Department of Computer and Information Sciences

Delaware State University

1200 North DuPont Hwy

Dover, DE 19901

sstevens@desu.edu

Review of applications will begin on September 30, 2014.

DSU is an equal opportunity, affirmative action employer. Applications from Minorities and Women are encouraged.

Drexel University

College of Computing & Informatics

Teaching Faculty Positions

Drexel University's College of Computing & Informatics (www.cci.drexel.edu) invites applications for multiple full-time teaching faculty positions. The department of Computing offers BS, BA, MS, and PhD degrees in computer science, as well as BS and MS degrees in software engineering.

Areas of relevant teaching expertise include computer security, computer game programming and design; C++, Java, Python programming; data structures; Unix scripting and program development; CS mathematical foundations; web and mobile app development; systems programming and architecture; software engineering fundamentals; and software specification, design and architecture.

Drexel is a private university committed to research with real-world applications. The



Lecturer in Computer Science

Emory University

Department of Mathematics and Computer Science

Emory University Math & Computer Science (<http://www.mathcs.emory.edu>) invites applications for a Lecturer, to begin Fall 2015. Initial appointment is for three years, with potential for renewal and promotion; see <http://college.emory.edu/home/administration/policy/lecturer.html>

Responsibilities include teaching five semester courses per year, student advising, and assisting with all aspects of undergraduate programs. Candidates should have a PhD in Computer Science or related field. Inquiries and applications comprising a CV, teaching statement, evidence/promise of teaching excellence and three letters of recommendation should be sent to cslect2015@mathcs.emory.edu. Review begins December 5, 2014 and will continue until the position is filled. Applications received up to 30 days after review begins will be given full consideration.

Emory University is an Equal Opportunity/Affirmative Action/Disability/Veteran employer. Women, minorities, persons with disabilities, and veterans are encouraged to apply.

Professional Opportunities

university has over 25,000 students in 14 colleges and schools and offers about 200 degree programs. The College of Computing and Informatics has approximately 75 faculty and 2,300 students. Drexel has one of the largest and best-known cooperative education programs, with over 1,200 co-op employers. Drexel is located on Philadelphia's "Avenue of Technology" in the University City District and at the hub of the academic, cultural, and historical resources of the nation's sixth largest metropolitan region.

Review of applications begins immediately. Possession of a doctoral degree in computer science or related disciplines is preferred. To be considered, apply at www.drexeljobs.com/applicants/Central?quickFind=78885.

Your application should consist of a cover letter, CV, a brief statement describing your teaching interests, and a list of references. Letters of reference will be requested from the candidates who are invited for a campus interview. Electronic submissions in PDF format are required.

Drexel University is an Equal Opportunity/Affirmative Action Employer. The College of Computing & Informatics is especially interested in qualified candidates who can contribute to the diversity and excellence of the academic community. Background investigations are required for all new hires as a condition of employment, after the job offer is made. Employment will be contingent upon the University's acceptance of the results of the background investigation.

Fordham University

Department of Computer and Information Science

Department Chair

Fordham University invites applications for the position of Department Chair, at the rank of full professor, in the Department



Faculty Positions in Computer Science at Ecole polytechnique fédérale de Lausanne (EPFL)

To apply, please follow the application procedure at

<https://academicjobsonline.org/ajo/jobs/4591>

The following documents are requested in PDF format: curriculum vitae including publication list, brief statements of research and teaching interests, names and addresses (including e-mail) of 3 references for junior positions and 6 for senior positions.

Screening will start on December 1, 2014.

Further questions can be addressed to:

Prof. Willy Zwaenepoel
 Chairman of the recruiting committee
recruiting.ic@epfl.ch

For additional information on EPFL, please consult:
<http://www.epfl.ch> or <http://ic.epfl.ch>

EPFL is an equal opportunity employer.

of Computer and Information Science. The department is currently in a process of growth with administrative support for curricular revision and expansion of undergraduate and graduate programs, including new tenure track faculty lines. We are seeking a dynamic and innovative leader who will guide the department to greater prominence within the University and nationally. Candidates must have a Ph.D. in computer science, information science, or a related area. The chair position requires distinguished ongoing research, significant administrative experience, and strengths in program development, collaborative academic leadership, and teaching. Outstanding candidates in all areas of computer and information science are strongly encouraged to apply. The department is situated on Fordham's campuses in the center of Manhattan, the Bronx, and Westchester County where faculty and students take advantage of New York City's vast resources for research, education, and service. For complete position descriptions, see <http://www.cis.fordham.edu/openings.html>.

Applications can be submitted electronically to Interfolio Scholar Services: [apply.interfolio.com/25960](#). Include a cover letter; brief statements of administrative philosophy, teaching pedagogy, and research agenda; c.v.; samples of scholarship; and names with contact information of three references who may be contacted for letters of recommendation. Application review begins on November 15 and will continue until the position is filled. For information, contact Dr. David Wei (dsl.wei01@gmail.com; wei@cis.fordham.edu).

Fordham, an independent, Catholic University in the Jesuit tradition, is committed to excellence through diversity and welcomes candidates of all backgrounds. Fordham is an Equal Opportunity Employer.

Galois

Researcher/Principal Investigator

Galois seeks a Principal Investigator to join their team.

The successful candidate will develop an externally funded research program; collaborate with other Galois principal

Professional Opportunities

investigators to create research efforts of unique value; and foster interactions with academia, government and industry.

Full job description and position requirements: <http://galois.com/careers/principal-investigator/>

Galois has retained 180one to assist in the recruitment for this position. Please direct all inquiries to Christine Kennedy, 503.387.3181, christine@180one.com.

Georgia Institute of Technology

School of Computer Science

Faculty Positions

Applications will be considered until open positions are filled. However, to receive full consideration, applications should be submitted by December 8, 2014. Application materials should include a full academic CV, teaching and research statements, and a list of at least three references. Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their

research interests. All applications must be submitted online.

More information about the School of Computer and application instructions are available at <http://www.scs.gatech.edu/about/facultypositions>.

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



Assistant Professorships (Tenure Track) in Computer Science

The Department of Computer Science (www.inf.ethz.ch) at ETH Zurich invites applications for Assistant Professorships (tenure track) with focus on the following areas:

- Software Engineering and Programming Languages
- Information Systems (with emphasis on Big Data)
- Theory

For candidates with exceptional research accomplishments also applications for a tenured full professorship will be considered.

Applicants should have internationally recognized expertise in their field and pursue research at the forefront of Computer Science. Successful candidates should establish and lead a strong research program. They will be expected to supervise PhD students and teach both undergraduate level courses (in German or English) and graduate level courses (in English). Collaboration in research and teaching is expected both within the department and with other groups of ETH Zurich and related institutions.

Assistant professorships have been established to promote the careers of younger scientists. The initial appointment is for four years with the possibility of renewal and promotion to a permanent position.

Please apply online at www.facultyaffairs.ethz.ch

Your application should include your curriculum vitae, a list of publications, a statement of research and teaching interests and the names of at least three referees. The letter of application should be addressed to the **President of ETH Zurich, Prof. Dr. Ralph Eichler**. The closing date for applications is **15 December 2014**. ETH Zurich is an equal opportunity and family friendly employer and responsive to the need of dual career couples. We specifically encourage women to apply.

Professional Opportunities

Grinnell College

Computer Science, Tenure-track starting Fall 2015

Asst Prof (PhD) preferred; Instructor (ABD) or Assoc Prof possible. Area open.

Full details and application instructions: <https://jobs.grinnell.edu>. Candidates will upload letter of application, CV, transcripts (copies), teaching statement, description of scholarly activities, email addresses for three references.

Questions: Prof Samuel A. Rebelsky,
CSSearch@grinnell.edu, 641-269-3169.
 Deadline: November 8, 2014. AA/EOE

openings at Assistant Professor level for the 2015-2016 academic year. We are looking for candidates with system research expertise and experience in one or more of the following three areas:

- cyber-security, system security and data privacy
- data analytics
- new system architecture (e.g. multicore, cloud computing)

Strong candidates in core computer science and engineering research areas will also be considered. Applicants should have an earned PhD degree and demonstrated potential in teaching and research.

The department has 40 faculty members, recruited from major universities and research institutions around the world, and about 800 students (including about 200 postgraduate students). The medium of instruction is English. We were ranked 11th among all computer science and engineering departments worldwide according to QS World University Ranking in 2014, and 24th according to Academic Ranking of World Universities in 2013.

The University is committed to increasing the diversity of its faculty, and has a range of family-friendly policies in place.

Salary is highly competitive and will be commensurate with qualifications and experience. Fringe benefits include medical/dental benefits and annual leave. Housing will also be provided where applicable. For appointment at Assistant Professor level, initial appointment will normally be on a three-year contract. A gratuity will be payable upon completion of contract.

Application Procedure

Applications including a cover letter, curriculum vitae (including the names and contact information of at least three referees), a research statement and a teaching statement (all in PDF format) should be sent through e-mail to csrecruit@cse.ust.hk. Priority will be given to applications



Indiana University School of Informatics and Computing Chair of Computer Science Faculty Positions in Computer Science and Informatics

The School of Informatics and Computing (SoIC) at Indiana University Bloomington invites applications for **chair of computer science**, a full professor with a 3-year initial term as chair, and for two asst/assoc/full professors, in **complex networks and systems (CX)** and in **interactive and intelligent systems (IIS)**.

Chair applicants should have a world-class research record, a strategic vision for excellence in Computer Science research and education, and the academic and research leadership skills to advance that vision. IU Computer Science is strong and rapidly growing with 39 tenure-line faculty, many hired in the last 5 years.

CX applications are especially encouraged from established leaders, who will have opportunities for leadership roles in the Center for Complex Networks and Systems and in a new and ambitious university-wide network science initiative to be announced.

IIS applications are welcome from a range of related areas such as computer vision, smart imaging, pervasive computing, social robotics, and internet of things.

Applicants should have an established record (senior level) or demonstrable potential for excellence (junior) in research and teaching, and a Ph.D. in a relevant area, or (junior) expected by 8/15.

The SoIC is the first of its kind and among the largest in the country, with unsurpassed breadth. Its mission is to excel and lead in education, research, and outreach spanning and integrating the full breadth of computing and information technology. It includes Computer Science, Informatics, and Library and Information Science, with over 85 tenure-line faculty, 900 graduate students, and 1100 undergraduate majors. It offers Ph.D.s in Computer Science, Informatics, and Information Science.

Bloomington is a culturally thriving college town with moderate cost of living and amenities for an active lifestyle. IU is renowned for its top-ranked music school, HPC and networking facilities, and performing and fine arts.

Applicants should submit a CV, a statement of research and teaching, and names of 6 references (3 for junior level) using links below (preferred) or to Faculty Search, SoIC, 919 E 10th St, Bloomington, IN 47408. Chair candidates should also submit a statement of leadership philosophy and vision for IU CS. Questions may be sent to hiring@soic.indiana.edu. For full consideration applications are due by 12/1/14.

<http://indiana.peopleadmin.com/postings/968> (Chair, CS)
<http://indiana.peopleadmin.com/postings/969> (CX)
<http://indiana.peopleadmin.com/postings/970> (IIS)

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation or identity, national origin, disability status or protected veteran status.

Professional Opportunities

received by 15 December 2014. Applicants will be promptly acknowledged through e-mail upon receiving the electronic application material.

(Information provided by applicants will be used for recruitment and other employment-related purposes.)

Indiana University, Bloomington

Department of Statistics

Faculty Positions: Assistant/Tenured Full

The Department of Statistics in the College of Arts and Sciences at Indiana University invites applications for faculty positions in the area of data science. One position is at the rank of tenured full professor; a second position is at the rank of tenure-track assistant professor.

Applicants should have an active research program that complements the department's existing strengths in machine learning, spatial statistics, and Bayesian inference, as well as a commitment to teaching excellence. Applicants for appointment as a full professor should be renowned scholars with a demonstrated commitment to department service.

A Ph.D. in statistics, computer science, or a related field is required.

Created in 2006, IU's Department of Statistics currently offers both graduate and undergraduate degree programs and maintains the Indiana Statistical Consulting Center. The usual teaching load for core faculty members is 3 courses per year. More information about the department can be found at its website: <http://www.stat.indiana.edu>.

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity,

color, race, religion, sex, sexual orientation or identity, national origin, disability status or protected veteran status. IU is responsive to the needs of dual-career couples.

The search will continue until the positions are filled. Receipt of application by November 14, 2014, will ensure consideration for the 2015-2016 academic year.

Please apply electronically at PeopleAdmin: <http://indiana.peopleadmin.com/postings/990> (Assistant Professor Position) or <http://indiana.peopleadmin.com/postings/992> (Full Professor position).

Please address postal correspondence or questions to: Kelly Hanna, Department of Statistics, Indiana University, Statistics House, 309 North Park Avenue, Bloomington, IN 47408, USA; 812-855-7828, khanna@indiana.edu.

Institute of Science and Technology Austria (IST Austria)

Call for Assistant Professors and Professors

IST Austria invites applications for TENURE-TRACK ASSISTANT PROFESSOR and TENURED PROFESSOR positions to lead independent research groups in all areas of COMPUTER SCIENCE

IST Austria is a recently founded public institution dedicated to basic research and graduate education near Vienna. Currently active fields of research include biology, neuroscience, physics, mathematics, and computer science. IST Austria is committed to become a world-class research center with 1000 scientists and doctoral students by 2026. The institute has an interdisciplinary campus, an international faculty and student body, as well as state-of-the-art-facilities. The working language is English.

Successful candidates will be offered highly competitive salaries, and research budgets. Faculty members are expected to apply for external research funds and

participate in graduate teaching.

Candidates for senior positions must be internationally accomplished scientists in their respective fields.

Deadlines:

Open call for Professor applications.

For full consideration, Assistant Professor applications should arrive on or before November 15, 2014.

Application material must be submitted online: www.ist.ac.at/professor-applications

IST Austria values diversity and is committed to equal opportunity. Female researchers are especially encouraged to apply.

Kansas State University

*Department of Computing and
Information Sciences*

Faculty Position

The department of Computing and Information Sciences (CIS) at Kansas State University invites applications for multiple tenure-track positions beginning in Fall 2015 at all levels (Assistant, Associate, or Full Professor). Applicants should have a background in cybersecurity or high-assurance software. In addition, applicants whose research interfaces with one or more of the following areas are highly encouraged to apply: bio-security, cyber-physical systems, mobile computing, cloud-based systems, big data, or human-computer interfaces. Successful applicants will demonstrate commitment to both teaching and research. A doctorate degree in computer science or related disciplines is required; salary will be commensurate with qualifications.

Kansas State University is committed to the growth and excellence of the department of Computing and Information Sciences. CIS department offers a stimulating environment for research and teaching, and has several ongoing collaborative projects involving researchers in different

Professional Opportunities

areas of computer science as well as physics, psychology, anthropology, and other engineering and science departments.

The department offers BS, MS, and Ph.D. degrees, has a faculty of 19, and over 100 graduate and 400 undergraduate students. The department offers modern research and teaching facilities, including Beocat, a Beowulf cluster with over 2500 cores. The department has modern media-enabled classrooms and several laboratories for cybersecurity, high-assurance systems, software analysis, embedded systems, adaptive systems, computational engineering and science, and data-mining.

In Fall 2015, CIS will move to a new state-of-the-art facility in the College of Engineering complex (<http://www.engg.ksu.edu/phaseiv/>).

Kansas State is also home to the Biosecurity Research Institute and is the site of the new National Bio and Agro-Defense Facility. Details of the CIS Department can be found at the URL <http://www.cis.ksu.edu/>.

Please send applications to Scott DeLoach, Recruitment Chair, Department of Computing and Information Sciences, 234 Nichols Hall, Kansas State University, Manhattan, KS 66506 (email: recruiting@cis.ksu.edu). Applicants should submit a letter of interest, curriculum vitae, research and teaching statements, copies of representative publications and contact information of at least three references. Review of applications will commence December 01, 2014 and continue until the positions are filled.

Kansas State University actively seeks diversity among its employees. Kansas State University is an EOE of individuals with disabilities and protected veterans. Background check required.

Lehigh University

Department of Computer Science and Engineering

Teaching Faculty Position

Applications are invited for a full-time, non-tenure track, Teaching Faculty position (Professor of Practice) in the Computer Science and Engineering Department of Lehigh University (<http://www.cse.lehigh.edu>), to start in January or August 2015.

The successful applicant should hold a graduate degree in Computer Science, Computer Engineering, or a closely related field. The candidate must demonstrate a strong commitment to quality and innovation in undergraduate education.

Lehigh University is a private, highly selective institution that is consistently ranked among the top 40 national research universities by U.S. News & World Report. The faculty of the Computer Science and Engineering department includes ACM and IEEE fellows and six NSF CAREER award winners. The department offers a variety of undergraduate and graduate degree programs in Computer Science and Computer Engineering.

Located in Bethlehem, Pennsylvania, Lehigh is 80 miles west of New York City and 50 miles north of Philadelphia, providing an accessible and convenient location that offers an appealing mix of urban and rural lifestyles.

Applications can be submitted online at <https://academicjobsonline.org/ajo/jobs/4559>, and should include a cover letter, curriculum vita, teaching statements, and contact information for at least three references. Review of applications will begin November 1, 2014 and will continue until the position is filled.

Lehigh University is an affirmative action/equal opportunity employer and provides comprehensive benefits including domestic partner benefits (see also <http://www.lehigh.edu/worklifebalance/>). Lehigh University

is a 2010 recipient of an NSF ADVANCE Institutional Transformation Grant.

Read more at <http://www.lehigh.edu/luadvance/>. Lehigh Valley Inter-regional Networking & Connecting (LINC) is a newly created regional network of diverse organizations designed to assist new hires with dual career, community and cultural transition needs. Please contact infdcap@lehigh.edu for more information. Questions concerning this search may be sent to pop-search@cse.lehigh.edu.

Lehigh University

Department of Computer Science and Engineering

Two Tenure-Track Positions

Applications are invited for two tenure-track positions at the Assistant or Associate Professor level in the Computer Science and Engineering Department (<http://www.cse.lehigh.edu>) of Lehigh University to start in August 2015. Outstanding candidates in all areas of computer science will be considered.

Lehigh University is a private, highly selective institution that is consistently ranked among the top 40 national research universities by U.S. News & World Report. The faculty of the Computer Science and Engineering department includes ACM and IEEE fellows and NSF CAREER award winners. We offer a variety of undergraduate and graduate degree programs in Computer Science and Computer Engineering. Located in Bethlehem, Pennsylvania, Lehigh is 80 miles west of New York City and 50 miles north of Philadelphia, providing an accessible and convenient location that offers an appealing mix of urban and rural lifestyles.

Applications can be submitted online at <https://academicjobsonline.org/ajo/jobs/4239> and should include a cover letter, vita, both teaching and research statements, and contact information for at least three references. Review of applications will begin

Professional Opportunities

December 1, 2014 and will continue until the positions are filled.

Lehigh University is an affirmative action/equal opportunity employer and provides comprehensive benefits including domestic partner benefits (see also <http://www.lehigh.edu/worklifebalance/>). Lehigh University is a 2010 recipient of an NSF ADVANCE Institutional Transformation Grant. Read more at <http://www.lehigh.edu/luadvance/>. Lehigh Valley Inter-regional Networking & Connecting (LINC) is a newly created regional network of diverse organizations designed to assist new hires with dual career, community and cultural transition needs. Please contact infdcap@lehigh.edu for more information. Questions concerning this search may be sent to faculty-search@cse.lehigh.edu.

Louisiana Tech University

Programs of Computer Science and Cyber Engineering

Tenure-Track Faculty Positions

Applications are invited for multiple faculty positions, at all ranks, in the Computer Science and Cyber Engineering programs within the College of Engineering and Science (COES) at Louisiana Tech University for highly qualified research faculty and educators.

The candidate must have earned a Ph.D. degree in the Computer Science or a closely related field. Proven research track record, outstanding teaching skills, excellent written and oral communication skills, and a demonstrated commitment to high quality student success are expected. Successful candidate will be expected to perform exceptional research, procure extramural funding to support research, advise graduate and undergraduate students, collaborate with other faculty, and teach effectively both at undergraduate and graduate levels. Areas of interest include cyber defense and resilience, active authentication, mobile and cloud security, critical infrastructure

and systems security, cyber-physical and trustworthy systems, digital forensics, and agile software development. Other areas can also be considered.

Louisiana Tech is designated as a Tier 1 national university by the 2014 U.S. News & World Report college rankings, and is the only Tier 1 national university in the nine-member University of Louisiana System. COES currently enrolls over 2,000 students, including 200+ masters and 150+ doctoral students. Annual research expenditures of the College have averaged \$16M over the past three years. The College is concluding a building campaign to build a new Integrated Engineering and Science Education Building that will provide 100,000 square feet of space to expand its focus on project-driven curricula. COES launched the nation's first BS in Cyber Engineering degree in 2012, and has recently embarked on a bold partnership to significantly grow capacity and graduates in computer science, cyber engineering and related areas to support targeted economic development efforts in the region. More details about the College and the programs of Computer Science and Cyber Engineering are available at: <http://coes.latech.edu>. Both undergraduate and graduate degrees are offered in the disciplines.

To apply, send (1) a cover letter, (2) a detailed curriculum vitae, (3) a vision statement of research, (4) a teaching statement, and (5) full contact information for at least four references, in a single PDF file electronically to cscfacultysearch@latech.edu with the subject line "CS/CYEN Faculty Application: <Applicant's Last Name, Applicant's First Name>". Outstanding candidates can also be nominated with a corresponding letter of qualification. Review of applications and nominations will begin on September 1, 2014, and will continue until suitable candidates are identified. Inquiries can be submitted to Dr. Sumeet Dua, Director of Computer Science and Cyber Engineering at sdua@latech.edu.

Louisiana Tech University is an Affirmative Action/Equal Opportunity Employer. Women and underrepresented minorities are strongly encouraged to apply.

Marquette University

Assistant Professor in Information Assurance/Security

The Department of Mathematics, Statistics and Computer Science at Marquette University invites applications for a tenure-track Assistant Professor position to begin August, 2015. Preference will be shown to those with a research program in information assurance, cybersecurity or cryptography.

The ideal candidate would have a Ph.D. in computer science or a related field; contribute to our undergraduate and graduate programs; seek external funding to support collaborative, interdisciplinary research; play a role in creating a possible degree specialization in Information Assurance and Cyber Defense; and participate in regional chapters of professional security organizations. The Department is comprised of 27 full-time faculty and places emphasis on basic, applied and collaborative research, teaching, and interdisciplinary programs. For more information about the Department and its programs see <http://www.mu.edu/mscs>.

Marquette University, an EOE that values diversity, is a Jesuit, Catholic University with a wide range of undergraduate and graduate programs. We seek candidates who will contribute to its mission, a statement of which can be found at <http://www.mu.edu/about/mission.shtml>. Candidates from underrepresented groups are especially encouraged to apply.

All applications must be received through the University's online recruitment system, <http://employment.marquette.edu/postings/3153>. Review of applicants will begin November 14, 2014, and will continue until the position is filled.

Professional Opportunities

Massachusetts Institute of Technology

Faculty Positions

The Department of Electrical Engineering and Computer Science (EECS) seeks candidates for faculty positions starting in September 2015. Appointment will 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 undergraduate and graduate levels, research, and supervision of student research. Candidates should hold a Ph.D. in electrical engineering and computer science or a related field by the start of employment. We will consider candidates with research and teaching interests in any area of electrical engineering and computer science.

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. Letter writers should submit their letters directly to MIT, preferably on the website or by mailing to the address below. Please submit a complete application by December 1, 2014.

Send all materials not submitted on the website to:

Professor Anantha Chandrakasan
 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.

and undergraduate levels is required. The department has six core research areas: Artificial Intelligence, Computational Science, Graphics and Visualization, Human-Centered Computing, Software Engineering, and Systems. The primary areas of interest for these positions are software engineering and computer security, however exceptional candidates in all areas will be considered.

Mississippi State University is the largest university in the State of Mississippi with approximately 1300 faculty and 20,000 students. The Department of Computer Science and Engineering has 16 tenure-track faculty positions and offers academic programs leading to the bachelor's, master's and doctoral degrees in computer science and bachelor's degrees in software engineering and computer engineering.

Faculty members and graduate students work with a number of on campus research centers. Department research expenditures totaled approximately \$10M in FY12.

Candidates for this position are expected to hold a PhD in computer science or closely related field (ABDs may be considered). Level of appointment is commensurate with qualifications and experience.

Mississippi State University

Faculty Positions in Computer Science and Engineering

The Department of Computer Science and Engineering (<http://www.cse.msstate.edu>) is seeking to fill two open positions for tenure-track faculty members at the Assistant/Associate Professor levels. Evidence of strong potential for excellence in research (including the ability to attract external funding) and teaching at the graduate

Assistant Professor, Computer Science/Software Engineering

Monmouth is a private, moderate-sized, coeducational, comprehensive University founded in 1933. It serves residential and commuter students in eight schools: the Wayne D. McMurray School of Humanities and Social Sciences; the School of Education; the Leon Hess Business School; the School of Science; the Marjorie K. Unterberg School of Nursing and Health Studies; the Graduate School; School of Social Work; and the Honors School. Monmouth's campus is a five-minute drive from the Atlantic Ocean in West Long Branch, New Jersey, and is convenient to New York City and Philadelphia, as well as plentiful local attractions. The 156-acre campus features 54 buildings, including historic landmarks and state-of-the-art facilities.

Best of all, Monmouth offers an exceptional value. At Monmouth, students benefit from quality academic programs, small classes, professors who meet the highest standards for teaching and academic excellence, a magnificent campus, and state-of-the-art facilities. Plus, Monmouth is just the right size to provide the variety and choice of a comprehensive university combined with the individual attention typical of a small liberal arts college. Monmouth's convenient location, in the heart of a high-tech business region, provides cooperative and post-graduate employment opportunities for many Monmouth students.

Monmouth University is deeply committed to the principles of equity, diversity, and inclusiveness and seeks to create a pluralistic community for all staff, faculty, and students. Monmouth University is an Affirmative Action, Equal Opportunity Employer. Minorities, women, and individuals with disabilities are encouraged to apply.

Department: Computer Science/Software Engineering

Position Summary: The Department of Computer Science at Monmouth University is seeking applications for an Assistant Professor. This anticipated opening begins January 1, 2015 and is a tenure-track appointment.

The candidate would be expected to: teach 9 credits per semester of undergraduate and graduate courses in computer science or software engineering (12 credits with a 3 credit course load reduction); serve on various committees at the Department, School and University levels; maintain an active research program; mentor and advise students.

For additional information about the department, please go to: <http://www.monmouth.edu/school-of-science/department-of-computer-science-and-software-engineering.aspx>

Required Degree, License or Certifications: Doctoral degree

MONMOUTH
UNIVERSITY
WHERE LEADERS LOOK forward

Required Skills or Software: Excellent interpersonal, organizational and communication skills

Other Requirements: Ph.D. in Computer Science, Software Engineering, or other related discipline.

Preferred Qualifications: Research expertise in cyber security, cloud computing, or mobile computing. Teaching and/or industrial experience.

Special Instructions to Applicants: Transcripts and three letters of recommendation can be directed to: Daniela Rosca, Search Chair, Computer Science-Software Engineering, Monmouth University, West Long Branch, NJ 07764.

Log in to <http://apptrkr.com/512592> to apply and see the job duties for this position no later than the deadline date.

Posting Date: 8/28/2014

Closing Date: 10/15/2014

AA/EOE

Professional Opportunities

Applicants must apply on-line <http://www.jobs.msstate.edu/> and complete a Personal Data Information Form (Administrators/Faculty). A letter of application, curriculum vita, teaching statement, research statement, and names and contact information of at least three references must also be submitted. Review of applications will begin as early as November 2014 and continue until the position is filled.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status or any other characteristic protected by law. Women and minorities are encouraged to apply.

Montana State University

Department of Computer Science

Assistant or Associate Professor

The Montana State University Computer Science Department invites applications for one or more tenure-track faculty positions at the level of either Assistant Professor or Associate Professor.

Because increasing the diversity of the computer science profession is one of our strategic priorities, women and underrepresented minorities in computing are particularly encouraged to apply. MSU recognizes the importance of work-life integration and strives to be responsive to the needs of dual career couples.

The faculty position(s) to be filled is a full-time tenure track appointment with primary responsibilities in teaching, research and service/outreach. The successful candidate will become an integral part of the CS program. Duties will include teaching courses consistent with the candidate's background, working on curriculum development, developing a nationally recognized, externally funded research

program, and participating in professional/service activities.

The website <https://jobs.montana.edu/postings/628> has information on position requirements and application procedures.

ADA/EO/AA/Veterans Preference.

National University of Singapore

Multiple Tenure-Track Faculty Positions

The Department of Computer Science, National University of Singapore (NUS), has openings for several tenure-track faculty positions. Our main focus is on candidates at the Assistant Professor level with research interests in the following areas:

- Cyber-physical systems
- Big data analytics
- Security
- Sensor data modelling and learning

These areas are to be viewed in a broad sense, and we are particularly interested in candidates whose research interests cut across these and related areas. We seek candidates demonstrating excellent research potential and a strong commitment to teaching. We will also seriously consider exceptional candidates in other areas of computer science. Further, we will consider candidates at senior ranks (Associate and Full Professor) who have an outstanding record of research accomplishments.

We are an internationally top-ranked department with low teaching loads, excellent facilities, and intensive external collaborations. Significant funding opportunities abound for strong candidates. The research of the faculty covers all the major areas of computer science and is well represented at prestigious international conferences and journals. The department has a thriving PhD programme and it actively strives to attract the best students from the region and beyond. More information can be found at <http://www.comp.nus.edu.sg/>.

NUS offers highly competitive salaries and generous benefits, while Singapore provides a vibrant international environment with world-class health care, excellent infrastructure, a warm climate and very low taxes.

Interested candidates are invited to send, via electronic submission, the following materials to the Chair of the CS Search Committee, Prof. P.S. Thiagarajan, at csrec@comp.nus.edu.sg

- Cover letter
- Curriculum Vitae
- A teaching statement
- A research statement
- Contact information for at least three references

Applications will be reviewed as they are received and will continue until the positions are filled. However, to ensure maximal consideration applicant should submit their materials by December 15, 2014.

Neukom Fellows at Dartmouth College

Call for Applications

The Neukom Institute for Computational Science at Dartmouth College is pleased to announce the Neukom Fellows competition for positions starting September 1, 2015.

Neukom Fellows are interdisciplinary positions for recent Ph.D.s, DMA.s, or MFA.s whose research interests or practice cuts across traditional disciplinary boundaries, but has some computational component, whether it be a framing concept for intellectual exploration or an explicit component of the work that is pursued. The successful candidate should have a history of collaborative work across disciplines, but still show good evidence of independence and initiative. The Fellowships are two- to three-year appointments, with the third year extension considered upon request after a review early in the second year. Neukom

Professional Opportunities

Fellows will be mentored by faculty in two departments at Dartmouth College, take up residence in one department, and will teach one seminar course each year on a subject of their interest. Beyond that there are no additional duties. Neukom Fellow stipends are \$60,000 for 2015-2016. Additional funds are available for equipment, travel, and research materials.

Full description and Applications must be submitted here: <https://academicjobsonline.org/ajo/jobs/4286>

For more information on The Neukom Institute: <http://neukom.dartmouth.edu/>

New Mexico State University

Tenure-Track Position

The Computer Science Department at New Mexico State University invites applications for a tenure-track position at the *Assistant Professor* level, with appointment starting in the Fall 2015 semester. We are seeking strong candidates with research expertise that can effectively complement the research foci of the department; we are particularly interested in expertise in the areas of data management and analysis. Applications from women, members of traditionally under-represented groups, and other individuals interested in contributing to the diversity and excellence of the academic community are strongly encouraged.

For the full position announcement, please visit: <http://jobs.nmsu.edu/postings/19212>

New Mexico State University

Tenure-Track Position

The Computer Science Department at New Mexico State University invites applications for a tenure-track position at the *Assistant Professor* level, with appointment starting in the Fall 2015 semester. We are seeking strong candidates with research expertise that

can effectively complement the research foci of the department; we are particularly interested in expertise in the areas of Software Engineering, Programming Languages, Compilers, and Operating Systems. Applications from women, members of traditionally under-represented groups, and other individuals interested in contributing to the diversity and excellence of the academic community are strongly encouraged.

For the full position announcement, please visit: <http://jobs.nmsu.edu/postings/19305>

New York University

Courant Institute of Mathematical Sciences Arts and Science

Clinical Assistant/Associate Professor Position in Computer Science

The Computer Science Department at New York University has an opening for a Clinical Assistant or Associate Professor position to start January 15, or September 1, 2015, subject to budgetary and administrative approval. This is a full-time non-tenured, non-tenure-track three-year contract faculty position which is potentially renewable. The main duty is to teach three courses during each of the fall and spring semesters in the department's undergraduate or graduate program and additionally to participate in curricular development, program administration, and other educational activities. Applicants should have an M.S. or Ph.D. in Computer Science or a related field. A Ph.D. is preferred.

To apply, please arrange for a CV and for three letters of recommendation to be sent by email to jobs@cs.nyu.edu. To guarantee full consideration, complete applications should be received by October 15, 2014.

However, all candidates will be considered to the extent feasible until the position is filled. NYU is an Equal Opportunity/Affirmative Action Employer.

Northeastern University - Boston Campus

College of Computer and Information Science

Lecturer - Non Tenure Track - Full Time

The College of Computer and Information Science invites applications for the position of Lecturer(s). Primary responsibilities will be teaching undergraduate and graduate courses in the Computer Science and/or Information science fields. Positions will begin in September 2014 and the salary is competitive.

Candidates must have a PhD in Computer and/or Information Science, teaching experience preferred.

If you have questions, please e-mail dhodgkin@ccs.neu.edu

Apply: <http://neu.peopleadmin.com/postings/19033>

Northeastern University - Boston Campus

College of Computer and Information Science

Professor & Associate Dean - Undergraduate Programs

The College of Computer and Information Science at Northeastern University seeks applicants for the position of Professor and Associate Dean for Undergraduate Programs, starting January 1, 2015, if possible, or July 1, 2015, otherwise. This is a full-time position within the College. The Associate Dean will play an important role in the growth and development of the College, as our undergraduate enrollments continue to increase and as our interdisciplinary efforts widen.

The general duties of the Associate Dean include but are not limited to: enhancement of the numerous undergraduate degree programs offered by the College and design of new programs as needed;

Professional Opportunities

general supervision of the course content of individual courses and creation of new courses as appropriate in cooperation with faculty experts; collaboration with the Dean to implement academic programs and assessment measures; collaboration with the Dean and the other Associate Deans to hire teaching faculty; managing the teaching faculty and oversight of teaching in collaboration with the other Associate Deans; scheduling of the sections for all undergraduate and graduate CS and IS courses in collaboration with the Associate Dean for Graduate Programs; tracking and recording tenure/tenure-track faculty teaching loads and related non-instructional activity; implementing academic policies for undergraduate students and deciding when exceptions may be granted for appropriate reasons; assisting the academic advisors with student issues and registrar questions and occasionally doing direct student advising.

The Associate Dean also serves on several permanent University committees including the committee of all undergraduate associate deans and the committee that reviews undergraduate curriculum changes. The Associate Dean may also be asked to serve on ad hoc committees from time to time.

The position of Associate Dean for Undergraduate Programs offers opportunities for professional growth and development, and for frequent interaction with a committed faculty and a supportive Dean. The Associate Dean is a member of the Dean's senior leadership team and assists with strategic planning for the College. The Associate Dean may also be asked to undertake special projects as assigned by the Dean or as requested by the Office of the Provost or the Office of the President.

The successful candidate for Associate Dean will have well-developed interpersonal communication skills, written and oral. The position requires a doctoral degree in

Computer Science and/or relevant field; an academic rank of Full Professor or Associate Professor; at least three years experience in upper level academic administration; and demonstrated proficiency in management.

The Associate Dean is expected to maintain some level of research activity to maintain disciplinary skills and may choose to teach one academic course per year to keep in direct contact with students.

To Apply: <http://neu.peopleadmin.com/postings/31376>

Northeastern University - Seattle Campus

College of Computer and Information Science

Lecturer - Full-time (Non Tenure Track)

The College of Computer and Information Science invites applications for the position of Lecturer(s) at the Seattle campus. Primary responsibilities will be teaching graduate courses in the Computer Science field. Positions will begin in January 2015 and the salary is competitive.

Candidates must have a PhD in Computer and/or related field, teaching experience preferred.

If you have any questions, please e-mail d.hodgkin@neu.edu

Northeastern University - Seattle Campus

College of Computer and Information Science

Professor of the Practice & Dir CS Programs-Seattle

The Director of CS Programs-Seattle will provide the leadership for overseeing the growth of computer science programs offered in Seattle, specifically ALIGN and the MSCS. The Seattle Regional Campus is part of the NU Global Network and presents an

opportunity to enroll a substantial number of high quality students and build deep relationships with major corporations located in Seattle such as Amazon, Google and Microsoft. It also represents an unprecedented opportunity to recruit full- and part-time faculty from the local community who can enrich our courses in Seattle, and ultimately throughout the Global Network, with the deep industrial experience they have acquired.

The Director will have a PhD in CS or equivalent and have a distinguished career in the computing field that would qualify for the title of Professor of the Practice in Computer Science. The Director will also be expected to teach two courses per year.

To Apply: <http://neu.peopleadmin.com/postings/31769>

Northeastern University

College of Computer and Information Science

Assistant/Associate/Full Professor

The College of Computer and Information Science invites applications for at least five tenure-track faculty positions, beginning in Fall 2014. Applicants at all ranks will be considered. A PhD in Computer Science, Information Science or a related field is required.

Candidates will be considered from all areas in Computer and Information Science. We particularly welcome candidates with research interests in data-intensive computing (e.g., machine learning, databases, information retrieval and data mining), cloud computing and security. Candidates are expected to have or to develop an independently funded research program of international caliber and to participate in undergraduate and graduate teaching.

Qualifications: A PhD in Computer Science, Information Science or a related field is required.

Professional Opportunities

The College has a strong research program with significant funding from major federal research agencies and private industry and was instrumental in Northeastern being recognized by NSA/DHS as a center of excellence for research and education in Information Assurance.

The College has a diverse full-time faculty of 47, and offers a broad array of educational opportunities to students. Since 2010, the College has hired 27 outstanding faculty members, and plans to continue this strategic growth in the coming years. In addition to Bachelor's, Master's, and PhD programs in the computing discipline, the College offers several innovative undergraduate and graduate degree programs that combine computing with an important application domain. Fourteen faculty members have joint appointments with other academic departments, including Electrical and Computer Engineering, Art and Design, Health Sciences, Physics, and Political Science. The College has 822 undergraduates, 976 Masters, and 106 Ph.D. students. A particular focus in the next three years is to grow the faculty, research and PhD program.

Northeastern University is home to 20,000 students and to the nation's premier cooperative education program. The past decade has witnessed a dramatic increase in Northeastern's international reputation for research and innovative educational programs. A heightened focus on interdisciplinary research and scholarship is driving a faculty hiring initiative at Northeastern, advancing its position amongst the nation's top research universities. The College has been a major participant in this initiative and will continue the efforts this year, with additional interdisciplinary searches ongoing in related areas. For more information about the College, please visit <http://www.ccs.neu.edu>.

Northeastern University is located on the Avenue of the Arts in Boston's historic Back Bay. The College occupies a state of the art building opposite Boston's Museum of Fine Arts.

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

Screening of applications begins immediately. For full consideration, application materials should be received by December 1, 2014. However, applications will be accepted until the search is completed.

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

Please apply for these positions [here](#).

Old Dominion University

Department of Modeling, Simulation & Visualization Engineering

Modeling and Simulation Tenure-Track Faculty Position

The Department of Modeling, Simulation and Visualization Engineering at Old Dominion University's Batten College of Engineering and Technology invites applications for a tenure-track faculty position beginning January 1, 2015. The successful applicant will have expertise for teaching in core modeling and simulation (M&S) areas, especially experiment design and statistical analyses, and a commitment to quality instruction in the department's bachelor's, master's, and doctoral programs. Duties include the development of a strong, externally-funded research program. This is an opportunity to join and help shape the first M&S department in the nation. Preference will be given to applicants having experience in performing interdisciplinary research in M&S for *transportation systems and transportation system operation and planning*. Of particular interest are

candidates whose research spans one or more of the following areas: large-scale network modeling, multimodal logistics, supply chain management, urban planning, dynamic traffic assignment, flow optimization, real-time control of transportation systems, and modeling and visual simulation of multimodal transportation as a cognitive system. ODU is critically situated in a multimodal transportation hub with close proximity to the simulation centers of DoD agencies, shipbuilding industry, VMASC, and NASA Langley. Applicants must have a Ph.D. in an engineering or science discipline closely related to Modeling & Simulation.

Applications should include a cover letter, current resume, statement of teaching and research interests, and three letters of reference. All application materials must be submitted via email as a single pdf document to Dr. Rick McKenzie, Chair, MSVE Department, at the following email address: rmayo@odu.edu. Review of applications will begin October 1, 2014 and continue until the position is filled.

Old Dominion University is an equal opportunity, affirmative action institution and requires compliance with the Immigration Reform and Control Act of 1986.

Rhodes College

Department of Mathematics and Computer Science

Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at Rhodes College invites applications for a tenure-track position as an assistant professor of computer science beginning in August 2015. We welcome candidates from all areas of scholarly specialization within computer science. Duties of the position include teaching systems-oriented courses like operating systems, computer architecture, networks,

Professional Opportunities

and security, as well as other courses at all levels of the undergraduate computer science curriculum. The teaching load is 3/2.

Rhodes College values an inclusive and welcoming environment. We are an equal opportunity employer committed to diversity (<http://www.rhodes.edu/collegehandbook/I0309.asp>) in the workforce.

For more information about the position and to apply online, go to jobs.rhodes.edu.

San Francisco State University

Computer Science Department

Assistant or Associate Professor

Tenure Track Positions

The Department of Computer Science at San Francisco State University invites applications for two tenure-track positions at the Assistant or Associate Professor level. We are primarily interested in the database, networking and security areas, but also in areas related to social networking and collaboration, mobile computing, cloud computing, and human/computer interaction. We are looking for candidates who can teach a range of courses, can direct Masters' student theses and projects, and can collaborate across department and discipline boundaries to produce high-quality research and attract external funding. The positions begin Fall 2015.

San Francisco State University, a member of the California State University system, serves a diverse student body of 30,000 undergraduate and graduate students. The University seeks to promote appreciation of scholarship, freedom, and human diversity through excellence in instruction and intellectual accomplishment. SFSU faculty are expected to be effective teachers and demonstrate professional achievement and growth through research, scholarship, and/or creative work.

The Department of Computer Science (www.cs.sfsu.edu) serves about 650 majors (plus

approximately 100 at the graduate level) and has 10 full time faculty and several long-term lecturers. We offer a BS in Computer Science, and an MS in Computer Science. The MS degree, in addition to a General Program, offers concentrations in Software Engineering, Computing for Life Sciences, and Computing and Business. The department is engaged in outstanding research programs as evidenced by our excellent faculty publication record, numerous NSF and NIH grants (2 NSF CAREER Awards, several NIH and NSF collaborative grants with major universities such as UCSF, Stanford, Florida Atlantic University, Fulda University [Germany]), as well as significant funding from local industry affiliates (IBM Research, Microsoft Research, Genentech, Amazon, Emulex etc). MS students are required to complete a thesis project; this offers students and faculty opportunities for basic and applied research. Associated with our Department is SFSU's Center for Computing for Life Sciences (<http://www.cs.sfsu.edu/ccls/index.html>). Our department has up-to-date lab facilities, including a Dell 80 node cluster, a GPU server with NVIDIA Tesla and Titan GPUs, and access to Amazon and IBM's Cloud Computing services, for our high performance computing needs.

The successful candidate must have a Ph.D. in Computer Science or equivalent, and will be expected to teach courses at the graduate and undergraduate levels, to mentor students in their masters' projects, to publish research results in refereed journals and conferences, to obtain external funding, and to provide service to the campus and the community. Industrial and practical experience, a track record in applied research, as well as post-doc experience, are plusses.

Interested candidates should send via e-mail to csggrad@sfsu.edu the following:

- curriculum vitae
- statement of research
- statement of teaching interests
- representative publications

Please put your "name" and "CS Position" in the subject line. For file attachments please use PDF.

Candidates should also arrange to have at least three letters of recommendation sent to the same e-mail address (in PDF format) or mailed to:

San Francisco State University
 Department of Computer Science
 1600 Holloway Ave., TH 906
 San Francisco, CA 94132
 Attention: M. Jorgensen

For full consideration, applicants should ensure that all documents, including letters of recommendation are received by 12/01/14.

SFSU is an Affirmative Action/ Equal Opportunity Employer; women and minorities are strongly encouraged to apply.

Simon Fraser University

School of Computing Science

Ph.D. and M.Sc. positions in Computational Biology and Computer Science

The international graduate training program **Computational Methods for the Analysis of the Diversity and Dynamics of Genomes (MADD-Gen)**, under the leadership of Dr. Sahinalp, with the participation of Drs. Collins, Cherkasov and Wang, is accepting applications for Ph.D. and M.Sc. students to study at Simon Fraser University and the Vancouver Prostate Centre, commencing in 2015. This international graduate program is a close cooperation with Bielefeld University, Germany, graduate program: DiDy (www.didy.uni-bielefeld.de) and Simon Fraser University, Vancouver, Canada, graduate program: MADD-Gen (www.bigdatagenomics.ca).

Research will focus on the development of methods of high importance for the practical comparative analysis of genomes, in particular in view of both the variation between individuals (diversity) and the change in populations over time (dynamics).

Professional Opportunities

Our program aims at training specialists in handling big data related to genomics and molecular biology. Candidates must demonstrate a broad background in the interdisciplinary field of bioinformatics in general, and deep knowledge in the area they apply for.

Our program is targeted at students with a strong background in Computational Biology, Bioinformatics, Computing Science, Mathematics or a related field. Students must be able to communicate their work to the research group, and to quickly integrate into both the Bielefeld and Vancouver environment. Good communication skills are demanded. Ph.D. students will receive funding of CAD \$25,000, CAD \$21,000 for M.Sc. students, per year throughout their studies. Funding sources include scholarships by the CREATE Training Program of the Natural Sciences and Engineering Research Council of Canada (NSERC), and internal SFU scholarships.

For more information email: madd-gen-admin@sfsu.ca

Stanford University

Department of Computer Science

Faculty Openings

The Department of Computer Science at Stanford University invites applications for tenure track faculty positions 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, including but certainly not limited to those

in the engineering, mathematical, medical, physical, and social sciences. 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>.



Multiple Positions in all Areas of Computer Science

Stony Brook University's Department of Computer Science invites applicants for multiple tenure-track faculty positions for Spring or Fall 2015. Exceptionally qualified junior and senior candidates in all areas of Computer Science are invited to apply. Candidates in the following areas are particularly encouraged to apply: Cyber-security, Digital Media, HCI and Intelligent Interfaces, NLP, Machine Learning, Computational Science/Supercomputing, and Biomedical Informatics.

Applicants should hold a PhD in Computer Science or a closely related discipline and must demonstrate superior research potential.

The Department currently has over 50 faculty members and is expected to recruit additional members in the next several years. Detailed information on the research activities of the Department can be found on the Department home page: <http://www.cs.stonybrook.edu>. The Department is in a stage of significant expansion, in terms of new faculty lines, a new Computer Science building, a recent Center of Excellence in Wireless and Information Technology (CEWIT) building, a recent Center of Excellence in Advanced Energy (AERTC), along with new programs in SUNY Korea.

Stony Brook University, home to many highly ranked graduate research programs, is located 60 miles from New York City on Long Island's scenic North Shore. Stony Brook University is a member of the prestigious Association of American Universities and co-manager of nearby Brookhaven National Laboratory (BNL), a multidisciplinary research laboratory supporting world class scientific programs.

Applicants should apply online at: <https://hiring.cs.stonybrook.edu/>. Review of applications will begin immediately and will continue until the positions are filled.

Alternatively, Mail-In Applications to:

**Search Chair
Assistant/Associate/Full Professor (9149) Search
Department of Computer Science
Computer Science Building, Room 2434
Stony Brook, NY 11794-4400**

For a full position description, application procedures, or to apply online, visit www.stonybrook.edu/jobs (Ref. #F-9149-14-08.)

Stony Brook University is an Affirmative Action/Equal Opportunity employer. We encourage protected veterans, individuals with disabilities, women and minorities to apply.

Professional Opportunities

Applications should include a curriculum vita, brief statements of research and teaching interests, and the names and contact information of at least four references.

Please apply online at <http://soe-apps.stanford.edu/FacultyApplyCS>. Questions should be directed to, Search Committee Chair, c/o Laura Kenny-Carlson, via electronic mail to search@cs.stanford.edu.

The review of applications will begin on November 17, 2014, and applicants are strongly encouraged to submit complete applications by that date for full consideration; however, applications will continue to be accepted until February 13, 2015.

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, members of minority groups, protected veterans and individuals with disabilities, as well as from others who would bring additional dimensions to the university's research, teaching and clinical missions.

State University of New York at Buffalo

Multiple Tenured and Tenure-Track Faculty Positions

The State University of New York at Buffalo Department of Computer Science and Engineering invites candidates to apply for **multiple tenured and tenure-track faculty positions** beginning in the 2015-2016 academic year. We invite candidates from all areas of computer science and engineering, especially software engineering and programming languages, cyber-security, and computer vision and pattern recognition. Applicants should have a Ph.D. in computer science or a related area and demonstrate potential for excellence in research, teaching, and mentoring.

Computer Science and Engineering Department

The Department of Computer Science and Engineering has 34 tenured and tenure-track faculty and four teaching faculty. We have hired fifteen faculty members in the last five years and continuing to expand rapidly. Eight members of our faculty are NSF CAREER award recipients. Our faculty members are actively involved in successful interdisciplinary programs and centers devoted to biometrics; bioinformatics; biomedical computing; cognitive science; document analysis and recognition; high performance computing; information assurance and cyber security; and computational and data science and engineering.

The State University of New York at Buffalo (UB)

UB 2020 (<http://www.buffalo.edu/UB2020>) is a strategic development plan initiated by University President Satish Tripathi for enhancing educational opportunities for our students, advancing research discoveries that improve life for people throughout the world, and increasing our university's economic impact on our region and New York State. To achieve these ambitious goals, the University at Buffalo will hire over 250 faculty during the next five years. UB 2020 is part of NYSUNY 2020 plan initiated by Governor Andrew Cuomo.

Buffalo

Buffalo is the second largest city in New York state, and was rated the 10th best place to raise a family in America by Forbes magazine in 2010 due to its short commutes and affordability. Located in scenic Western New York, Buffalo is located near world-famous Niagara Falls, the Finger Lakes, and the Niagara Wine Trail. The city is renowned for its architecture and features excellent museums, dining, cultural attractions, and several professional sports teams.

Applications should be submitted **by December 31, 2014**, electronically via <http://www.ubjobs.buffalo.edu/>. Please use posting number 1400598 to apply. The University at Buffalo is an Equal Opportunity Employer.

Swarthmore College

Assistant Professor

Swarthmore College invites applications for a tenure-track position in the area of Computer/Electrical Engineering at the Assistant Professor level, to start during the Fall semester of 2015. A doctorate in Computer or Electrical Engineering is required. The appointee will pursue a research program that encourages involvement by undergraduate students. Strong interests in undergraduate teaching, supervising senior design projects, and student mentoring are also required. Teaching responsibilities include courses in computer hardware such as computer architecture and digital logic, and electives in the appointee's area of specialization.

Located in the suburbs of Philadelphia, Swarthmore College is a highly selective undergraduate liberal arts institution with 1500 students whose mission combines academic excellence and social responsibility. Eight full-time faculty members in the Department of Engineering offer a rigorous, ABET-accredited program for the Bachelor of Science in Engineering to approximately 120 students. Sabbatical leave with support is available every fourth year. The department has an endowed equipment budget, and there is support for faculty/student collaborative research. For program details, see <http://engin.swarthmore.edu/>.

Before January 1, 2015, upload your CV, brief statements describing teaching philosophy and research interests, along with three letters of reference to: <https://academicjobsonline.org/ajo/jobs/4467>

Professional Opportunities

Swarthmore has a strong institutional commitment to excellence through diversity in its educational program and employment practices and actively seeks and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and world.

Tufts University

Department of Computer Science

Faculty Position in Machine Learning or Data Mining

The Department of Computer Science in the School of Engineering at Tufts University invites applications for two tenure-stream faculty appointments to begin in September 2015. We are seeking candidates at the rank of Associate Professor or full Professor, although exceptional candidates at the rank of Assistant Professor will also be considered.

We welcome outstanding applicants with a strong vision and research programs in the areas of machine learning and data mining broadly interpreted to include related fields where data and its analysis are central. These include, for example, adaptive systems in robotics, computational linguistics, computational sustainability, and visual analytics.

Application materials should be submitted online through Academic Jobs Online (AJO) at <https://academicjobsonline.org/ajo/jobs/4533>

For more information please visit

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

Inquiries should be emailed to cssearch@cs.tufts.edu.

Review of applications will begin December 8, 2014.

Tufts University is an Affirmative Action/Equal Opportunity employer. We are committed to increasing the diversity of our faculty. Members of underrepresented groups are strongly encouraged to apply.

University of Alabama

Tenured/Tenure-Track Faculty Positions, Computer Science Software Engineering Focus: CyberSecurity and Big Data

The Department of Computer Science at the University of Alabama invites applications for two faculty positions at the Assistant/Associate level, to begin August 2015. The focus is software engineering, specifically applied to cybersecurity and big data. However, outstanding candidates in all areas will be considered. At the time of appointment, candidates must have earned a Ph.D. in Computer Science or a related field.

Located in Tuscaloosa, AL, near Birmingham, the University of Alabama is the largest institution in the state with roughly 35,000 students. The University was ranked in 2014 by US News and World Report as 36th among US public universities. The Computer Science Department has approximately 450 undergraduate and 50 graduate students. The department also offers an undergraduate Software Engineering Concentration. The SE faculty are PIs on 12 active research grants totaling over \$3.6M. For more information, please visit <http://se.cs.ua.edu>.

For additional details, visit <http://cs.ua.edu> or contact Dr. Jeffrey Carver (faculty.search@cs.ua.edu). To apply, visit: <https://facultyjobs.ua.edu/postings/35920>. Review of applications will begin immediately.

The University of Alabama is an equal opportunity/affirmative action employer. Women and minority applicants are particularly encouraged to apply.

The University of Alabama at Birmingham (UAB)

College of Arts and Sciences

Chair, Department of Computer and Information Sciences

The UAB College of Arts and Sciences (CAS) invites applications for the position of Chair of the Department of Computer

and Information Sciences. For additional information on the department, please visit <https://cis.uab.edu/>.

Computer and Information Sciences at UAB offers BS, MS, and PhD degrees. The Department has a strong research focus, excellence in teaching, and a strong commitment to outreach, innovation, and industrial partnerships. Research grants are growing significantly, and the Department has a leading role in an Interdisciplinary Research Center in Information Assurance and Computer Forensics. Departmental strengths include research programs in diverse areas of Computer Science including programming languages and software engineering, information assurance, natural language processing, machine learning, data mining, computer graphics, visualization, 3D printing, computer forensics, and high performance computing. Collaborations with UAB's school of engineering and the medical enterprise are strong and growing, with opportunities for faculty to participate in interdisciplinary R&D.

The successful candidate will combine excellence in research and management with a fundamental understanding of the operation and advancement of a research-focused Computer Science department at a Carnegie Research Extensive University (RU-VH). The chair is responsible for overall departmental administration and reports to the Dean of the College of Arts and Sciences. The successful candidate will be expected to provide strategic direction, vision, and leadership to the department and to participate actively in development across the UAB campus and in the city of Birmingham. The University is now embarking on the development of a 5 and 10 year plan to develop research computing. There is an opportunity for significant growth of the department over the next five years and the new Chair is expected to play an active role in the development of research computing infrastructure at UAB.

Professional Opportunities

The Chair is the chief academic, financial, and strategic officer for the Department. He or she will work to recruit and retain outstanding faculty and students at all levels, contribute to the intellectual life of the department as an active member of the faculty, and promote the department within the University and, as importantly, outside the University to secure support. A PhD in Computer Science or a closely related field is required. Candidates must possess a distinguished record of scholarship, grant funding, teaching, and professional service consistent with appointment at the rank of Full Professor with tenure. Candidates must exhibit excellent interpersonal, verbal, and written communication skills, and interest in commercialization and entrepreneurship is welcome.

Applicants should submit (1) a cover letter summarizing qualifications and explaining interest in the position, (2) a complete curriculum vitae, (3) a statement of vision and management style, and (4) contact information for at least five references. References will not be contacted without prior permission of the candidate.

Screening will begin on 10/01/2014, and will continue until the position is filled. Please go to the following web-site to apply and upload application materials.

<http://www.uab.edu/cas/application>

For more information or to make inquiries about this position, contact
Yogesh K. Vohra, PhD
Professor/Associate Dean
Chair, CIS Chair Search Committee
E-mail: ykvohra@uab.edu
Tel: (205) 934-6662

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of race, national origin, age, genetic or family medical history, gender, faith, gender identity and

expression as well as sexual orientation. UAB also encourages applications from individuals with disabilities and veterans.

A pre-employment background investigation is performed on candidates selected for employment.

University Of California, Davis

Department Of Statistics

Faculty Positions: Assistant/Associate/Full

The Department of Statistics at UC Davis invites applications for multiple tenure-track Assistant Professor, tenured Associate and Full Professor positions from qualified individuals with a Ph.D. in Statistics or a related field. Applicants are expected to have active research interests in statistical methods that are related to large and complex or massive data sets. Special consideration will be given to candidates with demonstrated interests in machine learning, geometrical and nonlinear methods in statistics, including the analysis of spatio-temporal, functional-longitudinal, shapes, networks and other

object data, deep/innovative scientific applications in various fields such as biological sciences and imaging, and big data-computing intensive methods. Candidates must possess a strong commitment to providing service to the department, university and statistics community. An outstanding record of research, professional activity and teaching are required for appointment with tenure, and demonstrated interest and the potential to achieve such a record are required for a tenure-track appointment. The position will begin 07/01/2015.

Application review begins 11/01/2014 until positions are filled. See <http://www.stat.ucdavis.edu/employment/academic/> for more information. To apply, go to <https://recruit.ucdavis.edu/apply/JPF00329>

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



UC SANTA CRUZ

Assistant Professor in Experimental Computer Systems

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science at the University of California, Santa Cruz invites applications for a tenure track (Assistant Professor) faculty position. We seek outstanding applicants in the area of experimental computer systems. Preferred applicants will have demonstrated research and teaching expertise in at least one area in experimental computer systems, broadly conceived, such as distributed systems, operating systems, storage systems, and computer security.

BASIC QUALIFICATIONS: A Ph.D. or equivalent foreign degree in Computer Science or other relevant field, expected to be conferred by June 30, 2016; demonstrated record of research and teaching.

POSITION AVAILABLE: July 1, 2015, with academic year beginning September 2015. Position contingent upon final budgetary approval. Ph.D. must be conferred by June 30, 2016 for employment beyond this date.

Apply at <http://apptrkr.com/519929>

CLOSING DATE: Review of applications will begin on January 2, 2015.

EOE

Professional Opportunities

University of California, Santa Barbara

Computer Science Department

Tenure-Track Position

The University of California, Santa Barbara invites applicants for a tenure-track appointment in the Department of Computer Science, effective July 1, 2015. Applicants must have a Ph.D. in computer science or a closely related field. While exceptional individuals in all areas will be considered, we are especially interested in the broad area of Big Data, with emphasis on machine learning, statistical methods, data mining, and scalable algorithms. Qualified candidates will be considered for appointment to the Eugene Aas Endowed Chair.

The department seeks individuals with promise and a proven track record of research excellence, a deep commitment to educating undergraduate and graduate students, and professional leadership abilities. We are particularly interested in candidates who value cross-disciplinary and collaborative research.

UC Santa Barbara is a premier public research university. The Department of Computer Science is part of the College of Engineering, in which all five departments are ranked among the top ten by the National Research Council (NRC). With 34 full-time faculty and more than 120 doctoral students currently, the Department of Computer Science has witnessed a rapid rise over the past ten years, both in size and stature. We are looking for candidates who will add to the department's dynamic culture and stimulating intellectual environment.

Additional information about the department and our academic programs can be found at <http://www.cs.ucsb.edu>.

Primary consideration will be given to applications received by December 15, 2014, however the position will remain open until filled. Applications should be submitted

electronically as PDF documents to: <https://recruit.ap.ucsb.edu/apply/JPF00348>

Applications must include a detailed resume, research and teaching statements, and 3 reference letters.

The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected veterans and individuals with disabilities.

University of Chicago

Assistant Professor Positions in AI

The Department of Computer Science at the University of Chicago invites applications from exceptionally qualified candidates for faculty positions at the rank of Assistant Professor in the area of Artificial Intelligence (AI). Outstanding researchers working in Artificial Intelligence, which include both the theory of machine learning and applications to areas such as natural language processing, computer vision, and computer systems are encouraged to apply.

The University of Chicago has the highest standards for scholarship and faculty quality, and encourages collaboration across disciplines. We encourage strong connections with researchers across campus in areas such as the biological and physical sciences.

The Department of Computer Science (cs.uchicago.edu) is the hub of a large, diverse computing community of two hundred researchers focused on advancing foundations of computing and driving its most advanced applications. Long distinguished in theoretical computer science

and artificial intelligence, the Department is now building strong systems and machine learning groups. The larger community in these areas at the University of Chicago includes the Computation Institute, the Toyota Technological Institute at Chicago (TTIC), the Department of Statistics, and the Mathematics and Computer Science Division of Argonne National Laboratory.

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

Applicants must have completed all requirements for the PhD at time of appointment. The PhD should be in Computer Science or a related field such as Mathematics or Statistics.

All applicants must apply through the University's Academic Jobs website at <http://tinyurl.com/muzweou>.

To be considered as an applicant, the following materials are required:

- cover letter,
- curriculum vitae including a list of publications,
- statement describing past and current research accomplishments and outlining future research plans, and
- description of teaching philosophy, and
- three reference letters, one of which must address the candidate's teaching ability.

Reference letter submission information will be provided during the application process.

Review of application materials will begin on January 15, 2015 and continue until all available positions are filled.

Professional Opportunities

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, protected veteran status or status as an individual with disability.

The University of Chicago is an [Affirmative Action / Equal Opportunity](#) / Disabled / Veterans Employer.

University of Chicago

Associate Professor in AI

The Department of Computer Science at the University of Chicago invites applications from exceptionally qualified candidates for faculty positions at the rank of Associate Professor in the area of Artificial Intelligence (AI). Outstanding researchers working in Artificial Intelligence, which include both the theory of machine learning and applications

to areas such as natural language processing, computer vision, and computer systems are encouraged to apply.

The University of Chicago has the highest standards for scholarship and faculty quality, is dedicated to fundamental research, and encourages collaboration across disciplines. We encourage strong connections with researchers across campus in areas such as the biological and physical sciences.

The Department of Computer Science (cs.uchicago.edu) is the hub of a large, diverse computing community of two hundred researchers focused on advancing foundations of computing and driving its most advanced applications. Long distinguished in theoretical computer science and artificial intelligence, the Department is now building strong systems and machine learning groups. The larger community in

these areas at the University of Chicago includes the Department of Statistics, the Computation Institute, the Toyota Technological Institute at Chicago (TTIC), and the Mathematics and Computer Science Division at Argonne National Laboratory.

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

Applicants must have a doctoral degree in Computer Science or a related field such as Mathematics or Statistics and be several years beyond the Ph.D. Applicants are expected to have established an outstanding research program and will be expected to contribute to the department's undergraduate and graduate teaching programs.

All applicants must apply through the University's Academic Jobs website at <http://tinyurl.com/pfatjhn>.

To be considered as an applicant, the following materials are required:

- cover letter,
- curriculum vitae including a list of publications,
- statement describing past and current research accomplishments and outlining future research plans, and
- description of teaching philosophy, and
- a reference contact list consisting of three people

Review of complete applications will begin January 15, 2015 and will continue until all available positions are filled.

All qualified applicants will receive consideration for employment without regard

University of Idaho

College of Engineering

Assistant Professor – Computer Science

Open for Recruitment: August 15, 2014 open until filled; screening to begin September 15, 2014

Announcement #: F000062P

Location: Moscow, ID

The Department of Computer Science, College of Engineering at the University of Idaho invite applications for a full-time, 9-month/academic year, tenure-track faculty position at the assistant professor level, with specialization in big data analytics and data interoperability. This is a permanent tenure track position initially funded in part by the EPSCoR Managing Idaho's Landscapes for Ecosystem Services (MILES) (www.idahoecosystems.org). Areas of expertise of interest include data analytics for scientific applications in ecology, biology, and social sciences, exploiting data from disparate sources and heterogeneous formats. Responsibilities include undergraduate and graduate teaching, scholarship and research, and professional and university service.

Minimum Qualifications:

- An earned doctorate in computer science or a closely related field.
- Evidence of ability to teach college-level courses in Computer Science.
- Demonstrated success in research publications and presentations with emphasis in the management, analysis and/or use of large-scale or distributed databases.
- Demonstrated ability to work in a team to achieve project goals.
- Commitment to working collaboratively with a network of institutions.

To learn more and/or apply, please visit: <https://uidaho.peopleadmin.com/postings/5466>
EOE

Professional Opportunities

to race, color, religion, sex, national origin, age, protected veteran status or status as an individual with disability.

The University of Chicago is an [Affirmative Action / Equal Opportunity](#) / Disabled / Veterans Employer.

University of Colorado BioFrontiers Institute

Tenure-Track Assistant Professor in Computational Biology

BioFrontiers integrates faculty from nine departments to address significant problems in biology and medicine at the interface of the biological sciences with the physical sciences, mathematics, computer science, and/or engineering (see <http://BioFrontiers.colorado.edu/about>). While a successful candidate could be rostered in any of our participating departments, this search will focus on candidates seeking to develop an internationally recognized research program in computational biology, with additional emphases on genomics, the microbiome, and/or network science. Successful candidates must demonstrate a strong focus on innovative computation in their research plan.

The tenure-track position is at the Assistant Professor level, although more senior candidates will also be considered. Candidates must have a Ph.D. and a demonstrated commitment to teaching at undergraduate and graduate levels. The successful candidate will hold the Marvin H. Caruthers Endowed Chair for Early Career Faculty for a period of four years, after which the Chair will be recycled to another early career faculty member.

Application materials are accepted electronically at <http://www.jobsatcu.com/postings/86204>. Review of applications will begin on November 11, 2014 and will continue until the position is filled. The University of Colorado Boulder conducts background checks for all final applicants.

As an Equal Opportunity/Affirmative Action employer, the University of Colorado is committed to diversity and equality in education and employment and sensitive to the needs of dual-career couples.

University of Illinois at Urbana-Champaign

Positions in Computing

The Department of Electrical and Computer Engineering (ECE) at the University of Illinois at Urbana-Champaign invites applications for faculty positions at all areas and levels in computing, broadly defined, with particular emphasis on big data and its applications, including complex data analysis and decision science, scalable hardware and software systems; parallel, high-performance, and energy-efficient computing; reliable and secure computing; wired/wireless/social networking & distributed computing; mobile, wearable sensing & applications; and bioinformatics & systems biology, among other areas. From the transistor and the first computer implementation based on von Neumann's architecture to the Blue Waters petascale computer – the fastest computer on any university campus, ECE Illinois faculty have always been at the forefront of computing research and innovation.

Applications are encouraged from candidates whose research programs specialize in core as well as interdisciplinary areas of electrical and computer engineering. The department is engaged in exciting new and expanding programs for research, education, and professional development, with strong ties to industry. This year the ECE Department has moved into its new 235,000 sq. ft. net-zero energy design building, which is a major campus addition with maximum space and minimal carbon footprint.

Qualified senior candidates may also be considered for tenured full Professor positions as part of the Grainger

Engineering Breakthroughs Initiative (<http://graingerinitiative.engineering.illinois.edu>), which is backed by a \$100-million gift from the Grainger Foundation to support research in big data and bioengineering, broadly defined. In addition, the University of Illinois is home to Blue Waters – one of the most powerful supercomputers in the world, supported by the National Science Foundation and developed and operated by the University of Illinois' National Center for Supercomputing Applications. Qualified candidates may be hired as Blue Waters Professors who will be provided substantial allocations on and expedited access to the supercomputer. To be considered as a Blue Waters Professor, candidates need to mention Blue Waters as one of their preferred research areas in their online application, and include a reference to Blue Waters in their cover letter.

Please visit <http://jobs.illinois.edu> to view the complete position announcement and application instructions. Full consideration will be given to applications received by November 15, 2014, but applications will continue to be accepted until all positions are filled.

Illinois is an EEO Employer/Vet/Disabled
www.inclusiveillinois.illinois.edu.

University of Kansas

Department of Electrical Engineering and Computer Science

Electrical Engineering/Computer Engineering /Computer Science Faculty

The University of Kansas (KU) Department of Electrical Engineering and Computer Science (EECS) seeks outstanding individuals for five tenure track positions in the disciplines of electrical engineering, computer engineering, or computer science. Successful candidates are expected to contribute to the development of academic and research programs and to contribute to the research community. Applicants are expected to have

Professional Opportunities

an earned doctorate, ABD, or equivalent in electrical engineering, computer science, computer engineering, or related fields at the time of appointment. The successful candidate must be eligible to work in the U.S. by the time of appointment.

The following positions are open at the assistant professor (tenure-track) level, with the possibility of higher rank for the exceptional applicant, with experience in:

Data Science/Health Informatics -- Data science and applications; large-scale data analytics; smart health; decision supporting systems in health; text mining; information retrieval; data mining; machine learning.
[\(<http://employment.ku.edu/academic/1781BR>\)](http://employment.ku.edu/academic/1781BR)

Computer Architecture and Reconfigurable Computing – Multiple-core architectures; Systems-on-Chip (SoC), and Networks-on-Chip (NOC); embedded systems; programmable and adaptive architectures; digital system design and synthesis; high-assurance, secure, resilient, and cyber-physical computer architectures; exascale computing architecture and systems; special purpose computing and memory architectures for data analytics and retrieval. (<http://employment.ku.edu/academic/1779BR>)

Bioinformatics – New computationally intensive technologies and software tools for efficiently storing biological data, retrieving biological data, organizing biological data,

analyzing biological data. Other areas of computer science focused on computational life sciences maybe considered for exceptional applicants. (<http://employment.ku.edu/academic/1780BR>)

Wireless Devices, Communications and Applications -- Wireless and sensing devices integrated into distributed systems to enable new mobile applications; sensors, e.g., radar or biomedical, with integrated wireless communications; wireless devices, sensors and systems applied to challenged environments, e.g., civilian disasters, or military, or covert communications; “Networks of things” and distributed sensing; telemetry and applications; smart



(Multiple Positions)
Assistant/Associate Professor
Division of Learning and Knowledge Systems
Department of Learning Health Sciences

The Department of Learning Health Sciences at the University of Michigan Medical School is seeking up to five assistant/ associate professors to expand substantially its Division of Learning and Knowledge Systems. The positions are full-time on the tenure-track, with rank and salary commensurate with education and experience. We seek innovative scholars from a wide range of disciplines, including, but not restricted to: information, computing and statistical sciences; public health; informatics; complexity and systems sciences; behavioral and social sciences; organizational and policy sciences; engineering; and economics. Faculty will collaboratively address the grand challenge of transforming health-related systems, locally and globally, into entities that learn and improve through continuous self-study in order to benefit the health of individuals and populations.

The Department of Learning Health Sciences (DLHS): The DLHS is a first-in-the-nation academic department focused on learning applied to health at all levels of scale: individuals, teams, organizations, and ultra-large scale systems. DLHS operates in three divisions. (1) The Division of Learning and Knowledge Systems primarily focuses on learning at higher levels of scale. (2) The Division of Professional Education primarily addresses learning by individuals. (3) The Clinical Simulation Center deploys advanced simulation technology and conducts a related program of research. (The DLHS was formerly the Department of Medical Education. With its new name and mission, the department addresses a much broader scope of learning and change.)

The Division of Learning and Knowledge Systems: Within DLHS, the Division is an interdisciplinary community of scientists focused on improving health care at the levels of interprofessional teams, complex organizations, regional networks, and national and multi-national systems. The Division addresses how these systems can routinely “learn” and improve through continuous self-study and self-surveillance, applying analytical methods that convert data to knowledge, and subsequent application of that knowledge to drive beneficial change. In collaboration with colleagues across the campus, the Division’s research programs examine fundamental questions and develop novel methods related to the creation, operation, and sustainability of “learning systems” that support health care, public health, and biomedical research. Its educational programs will include a new doctorate in learning health sciences and opportunities to participate in the curricula of other schools and colleges within the University. The Division’s service activities will engage health systems in becoming “learning systems.” *For further information about DLHS, and the Division, see <http://lhs.medicine.umich.edu>*

Faculty responsibilities include:

- Develop and lead collaborative, cutting-edge research programs related to the design, development, operation, and/or evaluation of learning health systems at the organizational, regional, national, and/or global levels of scale.
- Advance the field of learning systems through scholarly development and dissemination of theory, research, and innovation.
- Participate in developing graduate curricula and courses, and offer courses appropriate to the individual’s background.
- As time and priorities permit, assist health-related entities in becoming learning systems.
- Collaborate with colleagues in other schools and colleges within the University to advance shared missions.

Start-up packages are available to help successful candidates establish sustainable research programs. Joint appointments with other departments across the University will be available and encouraged.

To qualify for a position, an applicant must have:

- A terminal research degree (PhD or equivalent, MD not required) in a relevant discipline – see examples in the first paragraph. We welcome applications from active clinicians with relevant postgraduate research training.
- An existing research focus related to the mission of the Division to advance large-scale learning health systems.
- A record of scholarly achievement appropriate to the applicant’s seniority and professional experience.
- Exceptional organizational and communication skills for work in an interdisciplinary department.

Application: To apply, assemble and submit the following information:

- Letter of application, addressing the four qualifications listed above.
- Current curriculum vitae.

Application materials should be sent by email to:

Tana O’Lone tdeclerc@umich.edu
 Associate Administrator, Department of Learning Health Sciences,
 University of Michigan Medical School

Review of applications will continue until the positions are filled.

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

Professional Opportunities

grid communications for power distribution and monitoring. (<http://employment.ku.edu/academic/I766BR>)

Exceptional applicants in other closely related areas to the above topics may be considered.

EECS leads the KU School of Engineering with 36 faculty members and a research volume of over \$8 million per year. The EECS department offers undergraduate and graduate degrees in electrical engineering, computer engineering, computer science, interdisciplinary computing, and information technology. The department has approximately 500 undergraduate and 250 graduate students. EECS faculty

engage in collaborative research projects across multiple areas of interest within the department and the University. There are many interdisciplinary opportunities involving schools at KU and the KU Medical Center.

The KU School of Engineering is rapidly expanding and plans to add thirty new faculty lines, over a 5 year period, with expanded research and teaching facilities. The University of Kansas is focused on four key campus-wide strategic initiatives: (1) Sustaining the Planet, Powering the World; (2) Promoting Well-Being, Finding Cures; (3) Building Communities, Expanding Opportunities; and (4) Harnessing Information, Multiplying Knowledge. For more information, see <http://www.provost.ku.edu/planning/>

themes). Successful candidates should describe in their application materials how their work addresses one or more of KU's strategic initiatives.

Applications should be submitted at <http://employment.ku.edu/academic-jobs>. Applications should include a letter of application, curriculum vitae, a statement of research interests and plans, a statement of teaching interests and plans, and contact information for three references. Applications will be reviewed beginning December 1, 2013 and will be accepted until the position is filled. The appointment will be effective as negotiated. Questions can be sent to: EECS_Search@eecs.ku.edu. KU is an EO/AAE.



(Multiple Positions)
Professor
Division of Learning and Knowledge Systems
Department of Learning Health Sciences

The Department of Learning Health Sciences at the University of Michigan Medical School is seeking up to three distinguished scholars to expand substantially its Division of Learning and Knowledge Systems. Successful applicants for these full professorships may also elect to be considered for the role of chief of this division and for an endowed professorship. Professors will be innovative scholars with backgrounds from any of a number of disciplines, including, but not restricted to: information, computing and statistical sciences; public health; informatics; complexity and systems sciences; behavioral and social sciences; organizational and policy sciences; engineering; and economics. Successful applicants will have a record of significant accomplishments in collaboratively addressing the grand challenge of transforming health-related systems locally and globally into entities that learn and improve through self-study in order to benefit the health of individuals and populations.

The Department of Learning Health Sciences (DLHS): The DLHS is a first-in-the-nation academic department focused on learning applied to health at all levels of scale: individuals, teams, organizations, and ultra-large scale systems. DLHS operates in three divisions. (1) The Division of Learning and Knowledge Systems primarily focuses on learning at higher levels of scale. (2) The Division of Professional Education primarily addresses learning by individuals. (3) The Clinical Simulation Center deploys advanced simulation technology and conducts a related program of research. (The DLHS was formerly the Department of Medical Education. With its new name and mission, the department addresses a much broader scope of learning and change.)

The Division of Learning and Knowledge Systems: Within DLHS, this Division is an interdisciplinary community of scientists focused on improving health care at the levels of interprofessional teams, complex organizations, regional networks, national and multi-national systems. The Division addresses how these systems can routinely "learn" and improve through continuous self-study and self-surveillance, applying analytical methods that convert data to knowledge, and subsequent application of that knowledge to drive beneficial change. In collaboration with colleagues across the campus, the Division's research programs examine fundamental questions and develop novel methods related to the creation, operation, and sustainability of "learning systems" that support health care, public health, and biomedical research. Its educational programs will include a new doctorate in learning health sciences and opportunities to participate in the curricula of other schools and colleges within the University. The Division's service activities will engage health systems in pursuit of becoming "learning systems." For further information about DLHS, and the Division, see <http://lhs.medicine.umich.edu>

Responsibilities include:

- Lead collaborative, cutting-edge research programs related to the design, development, operation, and/or evaluation of learning health systems at the organizational, regional, national, and/or global levels of scale.
- Advance the field of learning systems through scholarly development/dissemination of theory, research, and innovation.
- Mentor junior faculty in developing successful, productive careers in learning and knowledge systems.
- Play a senior role in developing graduate curricula and courses, offering courses relevant to the individual's background.
- Develop and lead programs to assist health-related entities in becoming learning systems.
- Help the University of Michigan position itself as a leader in improving health through learning systems.

A generous start-up package will be available. Joint appointments with other University departments will be encouraged.

To qualify for a position, an applicant must have:

- A terminal research degree (PhD or equivalent, MD not required) in a relevant discipline – see examples in the first paragraph. (We welcome applications from active clinicians with relevant postgraduate research training.)
- A sustained research focus related to the Division's mission to advance large-scale learning health systems.
- A record of scholarly leadership and achievement that would merit appointment as a tenured full professor.
- Exceptional leadership, organizational and communication skills for work in an interdisciplinary department.

Application: To apply, assemble and submit the following information:

- Letter of application, addressing the four qualifications listed above.
- Current curriculum vitae.

Application materials should be sent by email to:

Tana O'One tdeclerc@umich.edu
 Associate Administrator, Department of Learning Health Sciences,
 University of Michigan Medical School

Review of applications will continue until the positions are filled.

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

Professional Opportunities

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including pregnancy), age, national origin, disability, genetic information or protected Veteran status.

The University Of Michigan, Ann Arbor

Department Of Electrical Engineering and Computer Science - Computer Science and Engineering Division

Faculty Positions

Applications and nominations are solicited for multiple faculty positions in the Computer Science and Engineering (CSE) Division. Highly qualified candidates from all areas of computer science and computer engineering will be considered for positions at all levels and are encouraged to apply.

Qualifications include an outstanding academic record, a doctorate or equivalent in computer science or computer engineering, and a strong commitment to teaching and research. Applications must be received by January 1, 2015.

To apply, please complete the form at:
<https://www.eecs.umich.edu/eecs/etc/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 Nebraska - Lincoln

Tenure Track Faculty Position at the Rank of Assistant Professor

The Department of Computer Science and Engineering at the University of Nebraska - Lincoln invites applications for a tenure track faculty position at the rank of Assistant Professor to begin in August, 2015.

We are seeking a faculty member who can establish a strong scholarly research and teaching program in the area of Robotics, complementing the work being performed in the robotics, cyber-physical networking, software engineering, and informatics labs in the department. We are particularly interested in the subareas of controls, perception, coordination, collaboration, and human-robot interaction.

To apply go to <http://employment.unl.edu> and complete the Faculty/Administration application for requisition #F_140123 and attach 1) a single-page cover letter explaining your interest in UNL, 2) a curriculum vitae, 3) teaching and research statements, 4) 1-2 papers that best represent research contributions and scholarship, and 5) list of at least three references.

Review of applications will begin on December 1st, 2014, and will continue until the position has been filled. The position is contingent on the availability of funds.

The official advertisement can be viewed at: <http://cse.unl.edu/facultysearch>

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

University of Nebraska - Lincoln

Tenure Track Faculty Position

The Department of Computer Science and Engineering at the University of Nebraska - Lincoln invites applications for a tenure track faculty position at the rank of Assistant, Associate or Full Professor to begin in August, 2015.

We are seeking a faculty member who can establish a strong scholarly research and teaching program in the area of software security, complementing the Department's strengths in informatics, software engineering, and systems. Areas of interest include data security, system security, trustworthy computing, and usable security and privacy.

To apply, go to: <http://employment.unl.edu> and complete the Faculty/Administrative application for requisition F_140125.

Attach

- 1) cover letter explaining why you are interested in UNL,
- 2) a curriculum vitae,
- 3) research and teaching statements,
- 4) 1-2 papers that best represent research contributions and scholarship, and
- 5) list of at least three references.

Review of applications will begin on December 1st, 2014, and will continue until the position has been filled. The position is contingent on the availability of funds.

The official advertisement can be viewed at: <http://cse.unl.edu/search>.

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

Professional Opportunities

University of New Orleans

One Tenure-Track Position

The Computer Science Department invites applications for one tenure-track position at the rank of Assistant Professor to begin Spring 2015. The department has a particular interest in specialists in Software Engineering, Big Data and Cyber Security but will give serious consideration to excellent applicants from any of the computing fields.

Additional information on the position can be found at: <http://www.cs.uno.edu/news/position1652.php>

University of Notre Dame

Assistant or Associate Professor

The Department of Computer Science and Engineering at the University of Notre Dame invites applications for Assistant or Associate Professor. Excellent candidates in all areas will be considered.

The Department offers the PhD degree and undergraduate Computer Science and Computer Engineering degrees. Faculty are expected to excel in classroom teaching and to build and lead highly-visible research projects that attract substantial external funding.

The University of Notre Dame is a private, Catholic university with a doctoral research extensive Carnegie classification, and consistently ranks in USNWR 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.

Applicants should send (pdf format preferred) a CV, statement of teaching and research interests, and contact information for three professional references to: cse-search-2015@nd.edu.

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

University of Oregon

Department of Geography

Tenure-Track Assistant Professor in GeoSpatial Technologies

Tenure-track ASSISTANT PROFESSOR position beginning Fall 2015. The Department of Geography seeks a scholar in the area of Geospatial Technologies focused on human-centered geospatial computing. The successful candidate will exhibit expertise in how emerging geospatial technologies can both understand and transform the lives of individuals, societal networks, regional development, or perceptions of risk of environmental change. Example areas of research include development of location-enabled data collection devices, user-interface design, spatial decision support systems, crowdsourcing social media, digital humanitarianism, digital inequalities, and cognitive responses to geospatial technology use. The successful candidate will join the department's Spatial Computation Cognition and Complexity (S3C) Lab that provides a highly collaborative research and teaching environment, which has produced synergies and multiple funded projects with faculty from Geography, Computer Science, Education, Psychology, Planning and the Ecosystem Workforce Program. See the lab's website for more detailed information: <http://blogs.uoregon.edu/s3clab>. The individual will be expected to teach courses in the GIScience program from the freshman to graduate level, and supervise masters and doctoral students in the candidate's area of research and in related areas. Applicants must have an existing (or potential for) successful publication record in the area of human-centered geospatial computing, experience in (or potential for) obtaining research funding from competitive grant programs, experience in (or potential for) teaching GIScience courses at the post-secondary level, potential to work in an interdisciplinary collaborative environment, experience in (or

potential for) maintaining a strong research program, and experience in (or potential for) advising graduate students. Ph.D. required at time of appointment.

Complete position announcement is available at <http://jobs.uoregon.edu/unclassified.php?id=4821>. Interested applicants should submit a cover letter, CV, research and teaching statements, and the names of three references via the University of Oregon's on-line system at www.academicjobsonline.org.

EO/AA/ADA institution committed to cultural diversity. The university encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

To assure consideration, applications must be received by October 1, 2014. Please direct questions to Dr. Mark Fonstad at fonstad@uoregon.edu

University of San Diego

Department of Mathematics and Computer Science

Assistant Professor of Computer Science

The University of San Diego seeks applicants for a tenure-track faculty position in computer science. Housed in a liberal arts setting, our department offers a B.A. in computer science. Candidates should have a commitment to teaching excellence and to maintaining an active research program. Our department is student-centered, and so we seek applicants willing to foster close student-faculty interactions, both inside and outside of the classroom, and promote undergraduate research. A Ph.D. in computer science or related field is required at the time of appointment, September 1, 2015. All areas of computer science will be considered. For more information about our department, please visit www.sandiego.edu/cas/math-cs.

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Professional Opportunities

The Computer Science Department (<http://cs.usc.edu>) at the USC Viterbi School of Engineering (<http://viterbi.usc.edu>) seeks candidates for teaching positions (Lecturer) to teach undergraduate and graduate courses. These are full time, benefits eligible faculty positions on the non-tenure track. Competitive candidates will have the training and experience necessary to teach effectively in a highly-ranked Computer Science department that advances undergraduate students through an accredited BS degree program and graduate students enrolled in MS and PhD programs. While we are interested in candidates with backgrounds in all areas of Computer Science we are particularly interested in candidates with expertise in Algorithms, Databases, Games, Programming Languages, Networks/Systems, and Software Engineering. Relevant industry experience is valued for candidates interested in teaching games-related courses.

These are primarily teaching positions; all candidates are expected to have a strong commitment to teaching. Lecturers will spend the majority of their time on teaching and teaching-related duties with reduced obligation for research and University service. Qualified candidates should have a doctoral degree in Computer Science (or equivalent) by the date of appointment. Salary and benefits are competitive. While we seek applications at the level of Lecturer, in exceptional cases, applicants with longer teaching experience may also be considered for a commensurate position (e.g., Senior Lecturer).

Applicants should submit their applications online at: <http://tinyurl.com/2014-usccs-lecturer>.

Applications must include a cover letter, a detailed curriculum vitae, a teaching statement, and names of at least three professional references, at least two of whom must be familiar with, and able to comment on, the applicant's teaching experience. Applicants may also optionally include a research statement. Applications should be received by October 22, 2014. Later applications will be considered to the extent possible.

The USC Viterbi School of Engineering is among the top tier engineering schools in the world. It counts 174 full-time, tenure-track faculty members, and it is home to the Information Sciences Institute, two National Science Foundation Engineering Research Centers, a Department of Energy EFRC (Energy Frontiers Research Center), and the Department of Homeland Security's first University Center of Excellence, CREATE. The school is affiliated with the Alfred E. Mann Institute for Biomedical Engineering, the Institute for Creative Technologies and the USC Stevens Center for Innovation. Research expenditures typically exceed \$180 million annually. With 36 tenure-track, 39 research faculty, and 11 teaching faculty, the USC Department of Computer Science is one of the nation's leading centers of research and education in the field.

USC is an equal-opportunity educator and employer, proudly pluralistic and firmly committed to providing equal opportunity for outstanding persons of every race, gender, creed and background. The University particularly encourages women, members of underrepresented groups, veterans and individuals with disabilities to apply. USC will make reasonable accommodations for qualified individuals with known disabilities unless doing so would result in an undue hardship. Further information is available by contacting uschr@usc.edu.



School of Engineering
*Department of
 Computer Science*



Professional Opportunities

To apply, send the following items to cssearch@sandiego.edu: CV, three letters of recommendation (at least one of which addresses your teaching), a teaching statement, and a research statement. Also, please register as an applicant for job number IRCI4230 at www.sandiego.edu/jobs.

The University of San Diego, an independent Roman Catholic University, is an AA/EOE employer and is committed to seeking and sustaining a culturally and ethnically diverse campus environment. Priority will be given to applications completed by January 1, 2015.

University of San Francisco

Assistant Professor Position

The Department of Computer Science at the University of San Francisco is accepting applications for a tenure-track Assistant Professor position starting in August 2015.

See <http://www.cs.usfca.edu/tenure-track-position.html> for application instructions.

To receive full consideration applications must be received by December 1, 2014.

University of Texas at Austin

Department of Computer Science

Assistant/Associate/Full Professor Positions

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

Successful candidates are expected to pursue an active research program, to teach both graduate and undergraduate courses, and to supervise graduate students. The department is ranked among the top ten computer science departments in the country.

It has 41 tenured and tenure-track faculty members across all areas of computer science. Many of these faculty participate in interdisciplinary programs and centers in the University, including the Texas Advanced Computing Center (TACC), and those in Computational and Applied Mathematics, Computational Biology, and Neuroscience.

Austin, the capital of Texas, is a center for high-technology industry, including companies such as IBM, Dell, Freescale Semiconductor, Advanced Micro Devices, National Instruments, AT&T, Intel and Samsung. For more information please see the department web page <http://www.cs.utexas.edu/>

The department prefers to receive applications online, beginning September 2, 2014. To submit yours, please visit <http://www.cs.utexas.edu/faculty/recruiting>



Postdoctoral Fellowships at the Institute for Quantum Computing

IQC.UWATERLOO.CA

The Institute for Quantum Computing is inviting applications for postdoctoral positions in all aspects of quantum information processing, bridging areas from fundamental theory to physical implementations.

Quantum information science aims to develop transformational technologies that harness the power of quantum mechanics. The Institute for Quantum Computing (IQC) is a world-leading institute for research in quantum information at the University of Waterloo. IQC has 21 faculty members (growing to 33) whose research programs span the areas of Applied Mathematics, Chemistry, Combinatorics & Optimization, Computer Science, Electrical & Computer Engineering, and Physics & Astronomy. IQC members have the opportunity to interact with other research groups at the University, such as the Centre for Applied Cryptographic Research, and with the nearby Perimeter Institute for Theoretical Physics. New infrastructure including a state-of-the-art nanofabrication and metrology centre is supporting an expansion of our experimental research programs. IQC is based in the new Mike and Ophelia Lazaridis Quantum-Nano Centre, a state-of-the-art facility at the heart of the University of Waterloo campus, which provides unprecedented opportunities for research, collaboration and innovation.

We seek promising candidates to help advance the understanding of the foundations of quantum information, to develop new quantum applications and algorithms, and to implement these ideas in laboratory experiments and engineered systems. A PhD and proven ability, or strong potential, for excellence in research is required.

To learn more about IQC and for information on how to join as a postdoctoral fellow, please visit the *Available positions* link at iqc.uwaterloo.ca

The preferred deadline for receiving applications is November 1, 2014, but late applications will be considered until positions are filled.

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



Professional Opportunities

Applicants for an assistant professor position must have at least three (3) referees send letters of reference directly to the address provided. Applicants for a tenured position (associate or full professor) must have at least six (6) referees send letters of reference directly.

Inquiries about your application may be directed to faculty-search@cs.utexas.edu. For full consideration of your application, please apply by January 31, 2015. Complete applications (including all reference letters) will begin being reviewed on December 15, 2014.

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

University of Washington Tacoma

Computer Engineering, Science, and Information Technology

Open Assistant/Associate Professor Positions

For more information or to apply click on the following link: <https://academicjobsonline.org/ajo/jobs/4205>

University of Waterloo

David R. Cheriton School of Computer Science

Tenured and Tenure-Track Faculty Positions

Applications are invited for several tenure-track or tenured faculty positions in the David R. Cheriton School of Computer Science.

(a) Two senior, tenured David R. Cheriton

Chairs in Software Systems. These positions include substantial research support and teaching reduction. Candidates are expected to have an outstanding research record in software systems (very broadly defined). The successful applicant will be an acknowledged leader in his or her field or have demonstrated the potential to become such a leader.

(b) Several tenure-track Professor

positions. These positions are for candidates who will enhance the school's strength in any area of computer science. More senior appointments are possible should the circumstances warrant. Successful applicants who join the University of Waterloo are expected to be leaders in research and teaching, to engage actively in graduate student supervision, and to contribute to the overall development of the School. A Ph.D. in Computer Science, or equivalent, is required, with evidence of excellence in research and teaching. Rank and salary will be commensurate with experience; the salary range is \$110,000 to \$160,000 and negotiations beyond this salary range will be considered for exceptionally qualified candidates. Appointments are expected to commence during the 2015 calendar year.

With 80 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 all rights in the inventor. 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 full application. Applications will be considered when they are complete and as long as positions are available. However, full consideration is assured only for applications received by November 30, 2014.

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

"Three reasons to apply: <https://uwaterloo.ca/watport/why-waterloo>."

University of Waterloo, Canada

Electrical and Computer Engineering

Postdoctoral Researcher Position in Embedded Systems

We are seeking applications for a postdoc position to work on broad aspects of theory and application of software technology in safety-critical real-time embedded systems. The research activities center on system tracing, trace mining, and runtime monitoring of software systems with the goal to increase system reliability.

We are looking for applicants with a background in one or more areas: formal methods, software reliability, machine learning, program analysis, and real-time systems.

The position is funded for several years with an initial one-year contract and the possibility of renewal.

Application instructions:

For more information and application instructions, see: <http://uwaterloo.ca/embedded-software-group/postdoc>

University of Wyoming

IT Research Support Director

The University of Wyoming seeks an experienced, innovative leader to serve as its Director for Research Computing Support and head of the university's Advanced Research Computing Center (ARCC).

Professional Opportunities

Please visit the following website for application information: <http://www.uwyo.edu/hr/hremployment/showjob.asp?jobid=11544>

Vanderbilt University

Electrical Engineering and Computer Science Tenured/Tenure-Track Faculty Positions in Computer Science

The Department of Electrical Engineering and Computer Science at Vanderbilt University is seeking candidates for a tenured/tenure-track faculty position in Computer Science. Appointments at all ranks will be considered, with preference for candidates at the assistant professor level. Areas of primary emphasis are Big Data, Data Visualization, and/or Cyber-physical Systems. The Vanderbilt CS program provides a unique, collaborative, and interdisciplinary research environment that spans a wide range of topics. New trans-institutional programs create opportunities for research on issues of broad significance across multiple disciplines. Successful candidates are expected to teach at the undergraduate and graduate levels and to develop and grow vigorous programs of externally funded research, and are expected to enhance the School of Engineering's strategic directions in health care and medicine, security, energy and natural resources, and entertainment.

Vanderbilt University is an equal-opportunity, affirmative-action employer. We strongly encourage applications from women and members of under-represented minority groups.

Applications should be submitted on-line at: <https://academicjobsonline.org/ajo/jobs/4547>

For more information, please visit our web site: <http://engineering.vanderbilt.edu/eecs/>. Applications will be reviewed on a rolling basis, with an initial deadline of December 15, 2014, but will be accepted until the position is filled.

Vassar College

Tenure-Track Position

The Department of Computer Science at Vassar College invites applications for a tenure-track position in the area of Computer Systems at the rank of Assistant Professor starting in the 2015-16 academic year. Vassar College is an affirmative action, equal opportunity employer, and applications from members of historically underrepresented groups are especially encouraged. Vassar is strongly committed to fostering a community that reflects the values of a liberal arts education and to promoting an environment of equality, inclusion and respect for difference.

A commitment to excellence in undergraduate teaching and research is expected. The Ph.D. in Computer Science is required.

For this position, Computer Systems is broadly construed to include not only traditional/foundational areas such as computer organization & architecture, operating systems, compilers and software engineering, but also emerging areas such as cloud computing, mobile computing, data-intensive computing, embedded systems, security and robotics. The ideal candidate will have expertise in at least one of these or related areas. Special consideration will be given to candidates with experience in inter-disciplinary teaching and research. Teaching responsibilities include a combination of systems-related courses and introductory courses. The position also includes responsibility for updating existing systems-related courses and developing new courses.

Vassar faculty members are committed teacher/scholars who bring research and creative discovery to life for students in classrooms, labs, and in individually mentored projects. Vassar College has built a strong undergraduate program in Computer Science and the department has just moved into its new, state-of-the-art quarters as part

of Vassar's Integrated Science Facility. The department maintains Linux laboratories for introductory and advanced instruction. Faculty members are provided with workstations and laptops.

Candidates are asked to submit a letter of application, C.V., graduate school transcript (unofficial copies accepted for initial application), three letters of recommendation, and a statement of teaching experience and philosophy. To apply, please visit <https://employment.vassar.edu/applicants/Central?quickFind=51674>

Review of applications will begin on October 15, 2014 and continue until the position is filled. Please direct any questions about the position to Luke Hunsberger, (hunsberg@cs.vassar.edu), Chair of the Computer Science Department.

Washington State University Vancouver

Computer Science Faculty

COMPUTER SCIENCE FACULTY - Washington State University Vancouver invites applications for a full-time tenure-track position at the assistant professor level beginning 8/16/2015. Candidates are sought with expertise in **database systems** and **data management**. Additional expertise in **operating systems, cloud computing, Hadoop** and/or **data mining** are also desired.

Required qualifications: Ph.D. in Computer Science or Software Engineering by the employment start date and demonstrated ability to (1) develop a funded research program, (2) establish industrial collaborations, (3) teach undergraduate/graduate courses, and (4) contribute to our campus diversity goals (e.g. incorporate issues of diversity into mentoring, curriculum, service or research). **Preferred qualifications:** (1) already have published promising scholarly work in the field and (2) relevant industrial background.

Professional Opportunities

Duties include: (1) teaching at undergraduate and graduate levels including the topics of database systems and management, and operating systems, cloud computing, and/or data mining; (2) participation and documentation of distinguished scholarly activities including research, innovative teaching and laboratory development; (3) securing external funding for research programs; and (4) service to the department and university through committee work, recruitment, and interaction with industry.

WSU Vancouver serves about 3,000 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://ecs.vancouver.wsu.edu>. WSU Vancouver is committed to building a culturally diverse educational environment.

To apply: Please visit www.wsujobs.com and search postings by location. Applications must include: (1) cover letter with a clear description of experience relevant to each of the required and preferred qualifications; (2) vita including a list of at least three references, and (3) A statement (**two page total**) of how candidate's research will expand/complement the current research in ENCS and a list of the existing ENCS courses the candidate can teach and any new courses the candidate proposes to develop. Application deadline is **November 28, 2014**.

Washington State University Is An Equal Opportunity/Affirmative Action Educator And Employer. Members of ethnic minorities, women, special disabled veterans, veterans of the Vietnam-era, recently separated veterans, and other protected veterans, persons of disability and/or persons age 40 and over are encouraged to apply. WSU employs only U.S. citizens and lawfully authorized non-U.S. citizens.

Westmont College

Mathematics and Computer Science

Computer Science Faculty

Westmont College in Santa Barbara, CA, seeks applicants for a tenure-track opening in CS. We are a selective Christian liberal arts college in the broad evangelical tradition. Review of applications begins Oct. 1.

Visit http://www.westmont.edu/_offices/provost/OpenPositions.html for more details.

Williams College

Computer Science Department

Tenure Track Assistant Professor

The Department of Computer Science at Williams College invites applications for an opening at the Assistant Professor level for the fall of 2015. This is a tenure-track position with a three-year initial term. A more senior appointment is possible in exceptional circumstances. This position is open to all areas of computer science.



West Virginia University

Lane Department of Computer Science & Electrical Engineering

Benjamin M. Statler College of Engineering & Mineral Resources

Tenure-Track Faculty Positions in Data Analytics

The Lane Department of Computer Science and Electrical Engineering (LCSEE) invites applications for multiple tenure track faculty positions in the field of data analytics. Applicants will be considered at all faculty ranks, and will be evaluated according to the rank requested. Successful candidates will have the opportunity to collaborate with successful research programs in the areas of biometrics, software engineering, wireless networks, cyber security, and energy systems. An earned Ph.D. in Computer Science or a closely related discipline is required. Successful candidates must have the ability to develop a vigorous externally-funded research program, engage in scholarly publication, and teach at the undergraduate and graduate levels.

West Virginia University (www.wvu.edu) is a comprehensive land grant research institution with an enrollment of nearly 32,000 students and a Carnegie Classification - High Research. Morgantown and vicinity has a diverse population of about 62,000 residents and is ranked among the most livable small cities in the country (www.morgantown.com), within convenient driving distance to Pittsburgh and Washington, DC.

The Lane Department (www.csee.wvu.edu) has 35 tenure-track faculty members, 400 undergraduate students, 150 MS students, and 75 Ph.D. students. It offers degrees in Computer Science, Computer Engineering, Electrical Engineering, Biometric Systems, and Software Engineering. In addition, WVU is recognized by the NSA/DHS as a Center for Academic Excellence in Information Assurance Education and Research. The Department is home to the Center for Identification Technology Research (CITeR), an NSF I/UCRC site. The Department conducts approximately \$6 million annually in externally sponsored research, with major research activities in the areas of biometric identification, nanotechnology, power systems, software and systems engineering, and wireless networks. Strong opportunities exist for building collaborative partnerships with nearby federal research facilities, including the Department of Defense, Department of Energy, the FBI, and NASA. A new engineering research building is under construction by the Statler College with completion expected by early 2015.

Applications must be submitted as a single PDF file containing a cover letter, curriculum vitae, a statement of research and teaching interests, and contact information for three professional references. Applications should be submitted electronically to Department Chair Brian Woerner, at brian.woerner@mail.wvu.edu, with the phrase "Data Analytics" in the subject line. Applications will be reviewed beginning October 15, 2014, and will continue to be processed until positions are filled.

West Virginia University is an EEO/Affirmative Action Employer. Under represented class members are encouraged to apply. This includes: minorities, females, individuals with disabilities and veterans.

Professional Opportunities

Candidates in application areas including AI, HCI, and bioinformatics are especially encouraged to apply. New faculty will join eight current members of the department in supporting a thriving and diverse undergraduate computer science major. Candidates should have a commitment to excellence in teaching, an active research program, and should, by September 2015, possess a Ph.D. in computer science or a closely related discipline. The successful candidate will teach a total of three courses during the academic year, along with associated labs.

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts with easy access to the culturally rich cities of Albany, Boston, and New York City. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students.

The Department of Computer Science offers a congenial working environment with small classes, an excellent and diverse student body, and state-of-the-art facilities. Many opportunities exist for collaboration across disciplines, particularly with other faculty in the sciences.

Applications should include a curriculum vita, teaching and research statements, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher. Application materials must be submitted electronically via <http://www.cs.williams.edu>. Materials may be addressed to:

Professor Brent Heeringa, Chair
 Department of Computer Science
 Williams College
 Williamstown, MA 01267

Review of applications will begin on December 15, and will continue until the position is filled. Please direct all correspondence to hiring@cs.williams.edu.

All offers of employment are contingent upon completion of a background check. Further information is available at <http://dean-faculty.williams.edu/prospective-faculty/background-check-policy>.

Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

Yale-NUS College

Faculty Positions in Mathematics, Statistics, and Computer Science

Yale-NUS College, a recently established college of liberal arts and sciences founded by Yale University and the National University of Singapore (NUS), is seeking to hire one or more open rank, tenure-track or tenured faculty members in all fields of mathematics, statistics, and computer science. In particular, Yale-NUS College encourages applicants whose research and teaching cross traditional disciplinary boundaries. Full-time appointments are preferred, but joint appointments with other units of NUS may be possible.

Applicants should be active researchers with a commitment to creative and effective undergraduate teaching and mentoring within their specialties and in the Yale-NUS Common Curriculum. Candidates are encouraged to indicate ways in which they might supervise undergraduate research. For information about the curriculum, please see www.yale-nus.edu.sg/curriculum/common-curriculum/.

Salary, benefits, and leave policies will be competitive at an international level. Yale-NUS College is committed to supporting faculty research through start-up grants, research and travel allowances, institutional assistance with proposal preparation, and administration of external grant funding.

Review of applications will begin October 1, and continue until the positions are filled. Inquiries should be made to the Science Search Committee Chair, Jon Berrick, Professor of Science, yale-nus.college@yale.edu or see www.yale-nus.edu.sg.

With a highly international student body, the College values diversity and is committed to equality of opportunity. For additional information about Yale-NUS College, living in Singapore, and the faculty hiring process, including submission guidelines, and to apply, we invite you to our web site at: <http://www.yale-nus.edu.sg/careers/faculty/>

To access our application portal, please visit: <https://academicjobsonline.org/ajo/YaleNUS>

York University

Electrical Engineering and Computer Science - Lassonde School of Engineering

Tenure-Track and Tenured Positions

The Lassonde School of Engineering (<http://lassonde.yorku.ca>) at York University, Toronto, Canada seeks three (3) outstanding candidates in Electrical Engineering and Computer Science at the rank of Assistant or Associate Professor, to commence July 1, 2015, subject to budgetary approval.

One Tier-2 Canada Research Chair (CRC) in the area Digital Media with expertise in one or more of the following: computer graphics, virtual reality, human machine interaction, spatial audio, haptics, natural language processing/synthesis, visual analytics and closely allied areas. Tier 2 CRC Chairs are research-intensive faculty positions providing the chair holder with an exceptional opportunity to grow their research program through prioritization on research and access to infrastructure funding. The awards have five-year terms, are renewable once, and are intended for exceptional emerging researchers – fewer than 10 years post terminal degree at the time of CRC application – who have the

Professional Opportunities

acknowledged potential to lead their field of research. Information about the CRC program can be found at <http://www.chairs.gc.ca>.

Two (2) positions in Electric Power Engineering, but exceptional applicants from other areas in Electrical Engineering may also be considered. Research specializations of interest include, but are not limited to, the fields of 1) power systems protection; 2) power systems operation in deregulated energy markets; 3) smart grid: technology and applications; and 4) high voltage power electronic devices and control of power electronic converters with possible applications to electric motor drives, energy storage systems, and microgrids.

The successful candidates must hold PhD degrees in the relevant discipline with outstanding track record of teaching, scholarly research, and professional achievement.

For full position details, please visit <http://www.yorku.ca/acadjobs>.

These positions will play key roles in the establishment of the Renaissance Engineering initiative at Lassonde, an ambitious \$250 million dollar hiring 100 new faculty and staff, and expanding the student body by 1500. The Lassonde School of Engineering is a new professional school designed to create Renaissance Engineers™ – entrepreneurial engineers with a social conscience and a sense of global citizenship.

Applicants should complete the on-line process at <http://lassonde.yorku.ca/new-faculty/>. Complete applications must be received by **November 30, 2014**.

For the Tier 2 CRC in Digital Media, a complete application includes a detailed CV, statement of contribution to research and teaching, links to scholarly and/or creative work, evidence for their eligibility for a CRC Tier 2 appointment and three letters of reference.

For the electric power engineering positions, a complete application includes a cover letter, a detailed CV, statement of contribution to research, teaching, and curriculum development, three sample research publications and three reference letters.

York University is an Affirmative Action (AA) employer. The AA Program can be found at www.yorku.ca/acadjobs or a copy can be obtained by calling the AA office at 416-736-5713. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.