The program for the 2016 CRA Conference at Snowbird has recently been updated. Below is the current program. Continue to visit the event page at [http://cra.org/events/snowbird-2016/](http://cra.org/events/snowbird-2016/) for the latest information and updates. Online registration will open on the CRA website in a few weeks.

**New this year, we are excited to have organized discussions on interesting books in the field and want to hear your ideas! Email your book suggestions to Ellen Zegura at ewz@cc.gatech.edu.**

### July 17, 2016 (Sunday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>02:00 PM</td>
<td>Registration (until 7:00PM)</td>
</tr>
<tr>
<td>02:00 PM</td>
<td><strong>New Chairs Workshop</strong></td>
</tr>
<tr>
<td></td>
<td>This workshop will give new CS Department Chairs some of the skills to lead their organizations and work with Deans, Provosts, and Advisory Boards – the stuff they never told you in graduate school.</td>
</tr>
<tr>
<td>06:00 PM</td>
<td>Welcome Reception</td>
</tr>
<tr>
<td>07:00 PM</td>
<td><strong>Dinner/ Awards Presentation / After Dinner Speaker</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Machines of Loving Grace: Computers After the Smartphone</strong></td>
</tr>
<tr>
<td></td>
<td>Chair: Ed Lazowska, University of Washington</td>
</tr>
<tr>
<td></td>
<td>Speaker: John Markoff, New York Times, in conversation with Ed Lazowska</td>
</tr>
</tbody>
</table>

### July 18, 2016 (Monday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>06:00 AM</td>
<td>Registration (until 6:30PM)</td>
</tr>
<tr>
<td>07:00 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>08:30 AM</td>
<td><strong>Plenary Talk</strong></td>
</tr>
<tr>
<td></td>
<td>Chair: Ellen Zegura, Georgia Tech</td>
</tr>
<tr>
<td></td>
<td>Speaker: Jessica Hodgins, Carnegie Mellon University, and Disney Research</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Break</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>10:30 AM</td>
<td><strong>Booming Enrollments: Understanding the Surge</strong>&lt;br&gt;Brief plenary followed by breakouts into parallel tracks&lt;br&gt;Plenary Chair: Tracy Camp, Colorado School of Mines</td>
</tr>
<tr>
<td></td>
<td><strong>High Achievers</strong>&lt;br&gt;Chair: Nancy Amato, Texas A&amp;M University</td>
</tr>
<tr>
<td></td>
<td><strong>Student Profiles/Motivations During the Enrollment Growth</strong>&lt;br&gt;Chairs: Duncan Buell, University of South Carolina, and Mary Hall, University of Utah</td>
</tr>
<tr>
<td></td>
<td><strong>Best Practices for Managing Large Enrollments</strong>&lt;br&gt;Chairs: Susanne Hambrusch, Purdue University, and Stu Zweben, The Ohio State University</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>01:30 PM</td>
<td><strong>Parallel Tracks</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Smart Cities</strong>&lt;br&gt;Chair: Farnam Jahanian, Carnegie Mellon University</td>
</tr>
<tr>
<td></td>
<td><strong>Extracurricular Temptations – Hackathons, Innovation Contests, etc.</strong></td>
</tr>
<tr>
<td></td>
<td>Chair: Ellen Zegura, Georgia Tech</td>
</tr>
<tr>
<td></td>
<td><strong>Why CS Departments Should Embrace CS Education Research</strong>&lt;br&gt;Chair: Ran Libeskind-Hadas, Harvey Mudd College</td>
</tr>
<tr>
<td>03:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>03:30 PM</td>
<td>Networking Activities</td>
</tr>
<tr>
<td>06:30 PM</td>
<td>Dinner</td>
</tr>
<tr>
<td></td>
<td>After Dinner Talks – Computing Research Futures&lt;br&gt;Chair: Beth Mynatt, Georgia Tech</td>
</tr>
<tr>
<td></td>
<td><strong>Talk 1</strong>&lt;br&gt;Speakers: Cynthia Dwork, Microsoft Research, and Kentaro Toyama, University of Michigan</td>
</tr>
</tbody>
</table>

**July 19, 2016 (Tuesday)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>06:00 AM</td>
<td>Registration (until 6:30PM)</td>
</tr>
<tr>
<td>07:00 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>08:30 AM</td>
<td>Reading Group Breakouts – organized discussions based on pre-selected books&lt;br&gt;Send ideas for books to Ellen Zegura (<a href="mailto:ewz@cc.gatech.edu">ewz@cc.gatech.edu</a>).</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Break</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>10:30 AM</td>
<td><strong>Parallel Tracks</strong>&lt;br&gt;Data Science&lt;br&gt;Chair: Barbara Ryder, Virginia Tech</td>
</tr>
<tr>
<td></td>
<td><strong>Department Rankers and Rankings</strong>&lt;br&gt;Chairs: H.V. Jagadish, University of Michigan, and Fred Schneider, Cornell University</td>
</tr>
<tr>
<td></td>
<td><strong>Synthetic vs. Natural: hybrids between technology and biology</strong>&lt;br&gt;Chairs: Mary Czerwinski, Microsoft Research, and Helene Steiner, Microsoft Research</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>01:30 PM</td>
<td><strong>Parallel Tracks</strong>&lt;br&gt;Schools and Colleges of Computing&lt;br&gt;Chair: Chris Johnson, University of Utah</td>
</tr>
<tr>
<td></td>
<td><strong>Future of Work</strong>&lt;br&gt;Chair: Moshe Vardi, Rice University</td>
</tr>
<tr>
<td></td>
<td><strong>CS Backlash</strong>&lt;br&gt;Chair: Greg Morrisett, Cornell University</td>
</tr>
<tr>
<td>03:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>03:30 PM</td>
<td><strong>Making a Federal Case for Computing</strong>&lt;br&gt;Chair: Fred Schneider, Cornell University&lt;br&gt;Speaker: Peter Harsha, CRA</td>
</tr>
<tr>
<td>05:30 PM</td>
<td><strong>Engaging on Diversity and Education, Including K-12</strong>&lt;br&gt;Chair: Jan Cuny, National Science Foundation</td>
</tr>
<tr>
<td>06:30 PM</td>
<td>Dinner</td>
</tr>
</tbody>
</table>
Expanding the Pipeline

On-Ramping to Academia: Returning to Academic From Industry or Research Laboratories

By Coleen Carrigan, the California Polytechnic Institute at San Luis Obispo, and Eve Riskin, University of Washington

Pursuing scientific or engineering careers in industry, government, or private research after getting a Ph.D. once was considered a one-way ticket out of academia. However, in 2008, the University of Washington’s ADVANCE program received a National Science Foundation (NSF) ADVANCE called “On-Ramps into Academia” to counter this belief. The goal of On-Ramps was to increase the pool of female faculty in STEM available to all universities by providing professional development to Ph.D.-level women in industry or research laboratories who wanted to transition into faculty positions. A popular strategy for increasing women faculty in STEM (science, technology, engineering, and mathematics) departments is to hire from other universities, but this strategy fails to increase the number of women faculty nationally.

On-Ramps workshops were held every 18 months (in 2009, 2011, and 2012). On-Ramps provided practical tools and support to 67 women who were interested in making the transition to academia from industry or research laboratories. Participants were required to be a minimum of three years past their Ph.D. and/or postdoctoral position. Computer science had the highest representation among On-Ramps workshop participants at 30%, and electrical engineering was second at 18%.

Almost all workshop speakers were female faculty members who had started their careers in industry or research labs and had successfully transitioned to academia. They provided encouragement and role models to the participants and demonstrated that a transition to academia was possible. Workshop topics included translating industry skills and research to an academic setting; building a research and teaching program; discussing why working in academia is rewarding; balancing work and family in academia; and crafting a research statement, a teaching statement, and a curriculum vitae for an academic audience. Four women computer scientists who began their careers in industry were speakers: Martha Pollack of the University of Michigan, Maria Klawe of Harvey Mudd College, and Anna Karlin and Cecilia Aragon of the University of Washington. Jennifer Rexford of Princeton University was an active board member, and four women who are now computer science faculty were participants.

In December 2015, we published a paper in the Journal of Technology Transfer about our findings from interviewing the first 10 On-Ramps workshop participants to successfully transition to university faculty or instructor positions. The data showed that the personalized advice and practical tools the women received at the workshop helped them translate their skills and experiences for academic search committees. In addition, the major reward sought by these faculty members was the ability to leverage their nonacademic career skills to effect change in the academic context. Our data also revealed three core barriers that can influence the viability of transitioning to academia, particularly for women. These barriers were: the challenges of communicating the value of nonacademic career skills in the academic context; the financial costs of the transition; and gender discrimination.

First, we learned that the women found it difficult to communicate the value of their nonacademic career experiences in the academic context. However, as one interviewee put it, “Having successful women … sit you down and say, ‘No, no, no, you have a great resume, you might want to change these couple of things, but you’re a really good fit and this is why.’ I don’t think there’s a substitute for that.… It was huge. It made me feel like I can do this.”

Second, participants were concerned about the financial impact of entering academia, and several participants did accept a lower salary at their faculty job, sometimes significantly lower. One participant stated, “So taking a step down when you start in a new field … it’s something that, it’s not easy.”

Third, because all participants had experienced gender discrimination as students in academia, they were concerned...
about returning to this environment. Participants reported that On-Ramps helped them both logistically and emotionally. A participant said the workshop helped her to feel confident that, despite gender discrimination, she could transition to academia on the merits of her scientific credentials: “My main takeaway that I really liked was… I should feel proud to be a woman. I should not have to apologize for not being a man.”

Once the women landed faculty positions, they expressed high levels of confidence in their abilities, value, and contributions, especially in educating the next generation of computer scientists, engineers, and scientists. Knowing what knowledge and skill sets are valued in the workplace and how innovation happens added valuable dimensions to their research and teaching. Because so many students who graduate with a Bachelor’s degree go to industry, On-Rampers bring a real-world perspective that can be useful for students.

Many of the On-Rampers also expressed high degrees of personal satisfaction in their new positions, which offered levels of autonomy and creativity that few had experienced in their previous jobs. One interviewee stated, “The one thing with academia is that you’re your own boss.” Another stated, “The intellectual freedom that you have in academia you have nowhere else… You can set your own agenda.”

On-Ramps into Academia brings to light to a new potential pool of faculty applicants, both female and male. Data from our interviews suggest that on-ramping can create a new pool of highly qualified faculty candidates in STEM. Indeed, one participant summarized the impact of her career experiences on the classroom: “I think everything, practically, every single session I teach, that within a minute or two, I can link it to real life.” Another seconded this: “The field has moved so far in industry that there is a huge gap now… We could complete the cycle of student learning by having people from industry seed the next generation of scientists with the skills that industry needs to move forward.”

Our research findings that show some of the benefits On-Rampers bring to students, researchers, and academic institutions have implications for alternative hiring and recruitment practices in higher education. Future research could include an in-depth study of the leadership paths of On-Rampers, both women and men.

The paper can be downloaded at: http://link.springer.com/article/10.1007/s10961-015-9460-5

About the Authors:

Coleen Carrigan is a feminist anthropologist and an assistant professor of Gender, Race, Culture, Science and Technology Studies at Cal Poly, San Luis Obispo. She earned her Ph.D. in Sociocultural Anthropology at the University of Washington (UW) and was a postdoctoral scholar at the UW ADVANCE Center for Institutional Change. She investigates the historical and cultural dimensions of science, technology, engineering, and mathematics (STEM), with a particular emphasis on computer science and engineering, and why these high-status fields appear impervious to desegregation. Her research has been funded by the National Science Foundation, the Luce Foundation, the Cal Poly Provost’s Office, the Cal Poly Center for Expressive Technologies, and the American Association of University Women.

Eve Riskin received her B.S. degree in electrical engineering (EE) from MIT and her graduate degrees in EE from Stanford. Since 1990, she has been in the EE department at the University of Washington where she is now associate dean of diversity and access in the College of Engineering, professor of electrical engineering and faculty director of the ADVANCE Center for Institutional Change. With ADVANCE, she works on mentoring and leadership development programs for women faculty in STEM. She was awarded a National Science Foundation Young Investigator Award, a Sloan Research Fellowship, and the 2006 Hewlett-Packard Harriett B. Rigas Award. She is a fellow of the IEEE.

This research was funded by the National Science Foundation, grant number: NSF: HRD-0819407. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.
As part of CRA’s mission to help the computing research community become more engaged in policymaking and programmatic roles in D.C., we’ve embarked on a new effort to highlight the work of members of the computing research community who have taken the plunge and are serving the nation in policymaking roles. This new column will provide these policymaking researchers with an opportunity to highlight work that the community should know about, as well as raise awareness of the types of opportunities that are available to those interested in serving.

CRA board member Margaret Martonosi is currently serving as a Jefferson Science Fellow (JSF) within the U.S. State Department while on sabbatical from Princeton University for the 2015-2016 academic year. Within the State Department, she works in the Bureau of Economic and Business Affairs’ Office of International Communications and Information Policy (CIP). CIP is responsible for the formulation, coordination, and oversight of U.S. foreign policy related to information and communications technology (ICT).

What do you do in your current position?

As a JSF, my goal is to bring technology expertise and insights to a range of computing-related policy issues of current interest to CIP. My focus has particularly included technical and policy issues related to the Internet of Things (IoT) and Smart Cities, as well as initiatives to increase the world population’s ability to effectively and affordably access the Internet. For example, along with colleagues, we are formulating technically sound strategies for where and how to address issues of standardization, spectrum allocation, and regulation for IoT applications. My work also has me participating frequently in U.S. interagency discussions on computing policy including USAID, Department of Commerce, and FCC, and with multilateral organizations such as the UN’s International Telecommunications Union (ITU).

What do you hope to accomplish in your time in D.C.?

I have been at State for five months now, so I now have a pretty good sense of how to be operationally useful there from day to day. I contribute to writing and editing pieces that formulate policy or that convey it in different forums. As
a CS person, I use my technical knowledge to make sure that claims and issues are portrayed in ways that are technically accurate, and that clearly convey the right policy ramifications behind them. I contribute to U.S. prep processes for meetings at the ITU, OECD, and elsewhere.

In addition to the day-to-day usefulness, I also hope to have some more long-term impact on how State and CIP view the issues I have worked on. For IoT, connectivity, or other ICT issues, our goal is to articulate a set of U.S. positions clearly, so that the State Department speaks with a unified voice about its role in economic diplomacy, in bilateral relationships with particular countries, and in how we convey our beliefs at multilateral meetings.

How did you find out about the opportunity and how were you chosen?

I heard about it through colleagues who had previously been JSFs. The program and its application process is administered by the National Academies, as described here: http://sites.nationalacademies.org/PGA/Jefferson/

How can the computing community participate in your work?

I have given a couple short talks about it at Computing Community Consortium and CRA meetings. I am happy to chat with people who are interested in hearing more.

What are your thoughts on the experience so far?

When I originally decided to apply, I just hoped to do something different and interesting for the year. Now that I am five months into the experience, I am happy to say that not only did I get something different and interesting, but also educational and fun. The people I work with are very skilled and dedicated, and I am learning a lot about how tech policy plays a role in the operations of the State Department and of our government overall.
Twice as Many CREU/DREU Students Attend Graduate School, Compared to Other REU students

By Burçin Tamer, CERP Research Scientist

During their final year in college, a sample of undergraduate computing majors completed CERP’s annual survey for graduating students. The sample contained past participants of the CRA-W/CDC Alliance’s Collaborative Research Experiences for Undergraduates (CREU) and Distributed Research Experiences for Undergraduates (DREU), students who had completed other REUs, and students who had never completed an REU. CREU/DREU participants were significantly more likely to report plans to attend a graduate program in computing in the upcoming fall, compared to students who had completed a different REU or no REU during college, \( p < .05 \). CREU/DREU students were also more likely to report that they were entering a Ph.D. program, compared to students with other REU experiences, or no REU experience, \( p < .05 \).

Notes. REU: Research Experience for Undergraduates. This analysis examines survey data collected during spring semesters of 2011 through 2015 from a sample of undergraduate computing students during the final semester of their college career, including students who had participated in CRA-W/CDC REUs (CREU and DREU). Students were grouped based on prior participation in undergraduate research programs: CREU/DREU (n = 98), Other REU program(s) (n = 164), or No REU (n = 261). Students in the latter two groups were matched to CREU/DREU students based on their background characteristics using nearest neighbor 1-to-1 propensity score matching ensuring comparability across groups; matched samples of n = 98 per group resulted in a total of N = 196 for final analyses. The differences between the CREU/DREU students and each of the other comparison groups reported above were significantly different, \( p < .05 \), based on chi-squared tests.

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/
Thank You Data Buddies!

By Jane Stout, CERP Director

CRA wishes to thank the computing departments who distributed the Center for Evaluating the Research Pipeline (CERP)'s Data Buddies survey during the fall of 2015! The collective effort of these departments provides data for CERP’s research on students’ experiences and successes in computing degree programs.

Special thanks to Elite Data Buddies Departments, who obtained at least a 20% response rates from their students.

Baldwin Wallace University
Boston University (Bioinformatics Department)
Brown University
Colorado School of Mines
Duke University
Harvey Mudd College
Kean University
Montana State University
New Mexico State University-Main Campus
Saint Josephs University
Tufts University
University of Akron
University of Hawaii-Hilo
University of Massachusetts-Amherst
University of Nebraska-Lincoln
University of Notre Dame
University of Puget Sound
University of Rochester
University of South Carolina
University of Texas-Austin
University of Texas-El Paso
University of Washington
Wellesley College
Winston Salem State University

A big thank you to the rest of the Data Buddies departments who distributed CERP’s surveys to students.

Auburn University
Arizona State University
University of Illinois-Chicago
University of Maryland-Baltimore County
Augustana College
Bethune-Cookman University
Boston University (Computer Science Department)
California State University-Dominguez Hills
Carnegie Mellon University
Clemson University
Columbia University
Connecticut College
Cornell University
CUNY-Graduate Center
Drexel University
Fisk University
Fort Valley State University
Gallaudet University
George Mason University
Georgia Institute of Technology
Harvard University
Howard University
Johns Hopkins University
Landmark College
Miami University-Oxford
Millersville University of Pennsylvania
Morehouse College
New York University-Polytechnic School of Engineering
North Carolina A&T State University
Princeton University
Purdue University
Radford University
Rochester Institute of Technology
Rutgers University-New Brunswick Campus
Smith College
Sonoma State University
Spelman College
SUNY College-Plattsburgh
Syracuse University
Texas A&M University
Texas State University
The Ohio State University
Tougaloo College
University of Alabama
University of California-Berkeley
University of California-Los Angeles
University of California-San Diego
University of Colorado-Boulder
University of Delaware
University of Florida
University of Houston-Downtown
University of Illinois-Springfield
University of Illinois-Urbana Champaign
University of Michigan-Ann Arbor
University of Michigan-Flint
University of Minnesota-Twin Cities
University of Missouri-Columbia
University of Nebraska-Kearney
University of Nebraska-Omaha
University of North Carolina-Charlotte
University of Pennsylvania
University of Pittsburgh
University of South Florida-Main Campus
University of Texas-Dallas
University of the District of Columbia
University of Utah
Virginia Tech
Virginia Union University
Washington and Lee University
Washington University-St Louis
Western Oregon University
Worcester Polytechnic Institute
Yale University

Is your department listed? If not, help the computing community by volunteering your department to become a Data Buddy today! Visit CERP’s website to sign up: http://cra.org/cerp/data-buddies/.
Brain Science and Computer Science: Where Discovery Meets Invention

Contributions to this article were made by Gregory Hager, chair of the Computing Community Consortium (CCC) and professor of computer science at Johns Hopkins University and Martin Weiner, AAAS Science & Technology policy fellow in the Directorate for Computer & Information Science & Engineering Directorate at NSF.

Recently, the organizers of the CCC workshop on Research Interfaces between Brain Science and Computer Science were invited to present their workshop report at the National Science Foundation (NSF). Jack Gallant (University of California, Berkeley), Polina Golland (MIT), and Gregory Hager (CCC chair, Johns Hopkins University) gave the presentation and led surrounding discussions.

The Research Interfaces between Brain Science and Computer Science workshop was held December 2014 in Washington, D.C. The purpose of the workshop was to bring together computer scientists and brain scientists to articulate new research opportunities and "brain"-storm grand challenges inspired by President Obama’s BRAIN Initiative. More than 70 computer scientists and neuroscientists from academia, industry, and government were in attendance and between 160-300 participants viewed each panel and plenary on the livestream. You can see all the videos and slides from the workshop here.

The NSF presentation highlighted the advances that would result from a deeper dialogue between the two communities. For example, deep learning architectures, inspired by neural systems, may provide insights into intermediate levels of organization in the brain. Discovery from new, massive brain data sources may soon only be possible using specially domain-adapted computational tools. New models of computation, inspired by the extreme adaptability and energy efficiency of the brain, could be the key to future advanced computing technologies.

To achieve this future, challenges due to the cultural differences between the two fields will need to be overcome. For example, the experimental study of brain architecture and function is a massive-data problem, yet the two fields have completely different data sharing and open access cultures. Computing is ever more comfortable mining "data in the wild" to create new analytics and tools while brain science relies on controlled studies. Computing fields think naturally in terms of simulations and computational models; these areas are still increasing in brain science. If the two fields can create a common culture, there is a tremendous opportunity to achieve the grand challenges of understanding the function of the human brain. Indeed, it was clear during the workshop and conveyed during the discussion that it is becoming impossible to envision brain science without computational support, theories, and models.

If you are interested in working on the intersection of these fields, NSF offers numerous funding opportunities. These include the Collaborative Research in Computational Neuroscience (CRCNS) and Integrative Strategies for Understanding Neural and Cognitive Systems (NCS) solicitations, as well as the Robust Intelligence, Big Data, Communications, Circuits, and Sensing-Systems, and Cognitive Neuroscience programs.

To see the full NSF and CCC report from the Research Interfaces between Brain Science and Computer Science workshop, please click here.
The time is now for computer science education!

With the shifting economy, educators are increasingly recognizing computer science as a new basic requirement. In his final State of the Union address, President Barack Obama said that “helping students learn to write computer code” is among his goals for the year ahead.

Jim Kurose, the assistant director of the National Science Foundation (NSF) for Computer and Information Science and Engineering (CISE) released a letter to the community acknowledging the excitement in the community, but also noting to “please stay tuned as the Administration announces new steps in the coming weeks to support efforts to expand access to computer science education across the Nation.”

White House Office of Science Technology Policy U.S. Chief Technology Officer Megan Smith also showed her support for computer science education in December, noting that “increasing interest and engagement of all students in CS education requires community efforts, with teachers, administrators, nonprofit organizations, corporations, researchers, parents, and the public playing critical roles.”

The Computing Community Consortium (CCC) Education Task Force has just released a timely community white paper on The Importance of Computing Education Research.

The task force is led by CCC Council Member Debra Richardson. Debra was joined by former CCC Council Member and CRA-E Co-Chair Ran Libeskind-Hadas to commission the white paper authored by Steve Cooper, Jeff Forbes, Armando Fox, Susanne Hambrusch, Andrew Ko, and Beth Simon. This white paper recognizes the increase in the number of undergraduates declaring a computing major and suggests that we have an unparalleled opportunity right now to expand the reach of computing education through the burgeoning field of Computing Education Research (CER).

From the white paper:

Creating an environment in which computing education research flourishes and also applies to teaching practice is a long-term endeavor. Public interest in K-12 computing education has increased in recent years and many CS departments have new interests in improving the quality of undergraduate education and student retention, especially retention of members of underrepresented groups through evidence-based practices. The growing public interest, combined with the availability of computing education research funding, creates a unique environment for departments to consider CER as a respected research area.

To learn more about CER, please read the full white paper.
CCC White Paper: Smart Communities Internet of Things

By Helen Wright, CCC Senior Program Associate

The Computing Community Consortium (CCC) Computing in the Physical World Task Force has just released another community white paper on Smart Communities Internet of Things.

The task force, led by CCC Council Member Ben Zorn from Microsoft Research and Shwetak Patel from University of Washington, is looking at core research challenges that the Internet of Things (IoT) presents. This white paper, led by Klara Nahnahrstedt from the University of Illinois at Urbana-Champaign, highlights the benefits and challenges of cybertechnologies within “Smart Cities,” especially the IoT for smart communities, which means considering the benefits and challenges of IoT cybertechnologies on joint smart cities’ physical infrastructures and their human stakeholders.

Their recommendations are summarized below:

There is a **major urgency of funding of Computer Science (CS) basic research, development and deployment** to develop novel IoT solutions and their related cyberinfrastructures for Smart Communities. The USA funding in the area of Smart Cities and Smart Communities could use a major boost in funding similar to Europe and Singapore. The New York Times article “Old World, New Tech: Europe Remains Ahead of U.S. in Creating Smart Cities” [22] points out that Europe remains ahead of USA in creating smart cities. For example, the project “The Humble Lamppost” is on the way with 30 Million Euro investment from the European Investment Bank to fund smart lampposts across EU Cities [20]. In Singapore, the National Research Foundation’s Early-Stage Venture Funding Scheme announced $39 million co-funding of startups, on the private front, in 2013, venture capital invested a total of $1.71 billion in Singapore tech firms [21].

There is a **major urgency of increased funding to develop partnerships** between cities and academic and industrial partners towards establishing IoT-experimental zones and testbeds, integrations of existing IoT infrastructures and developments of new joint IoT cyberinfrastructures. The current investment towards building partnerships via the NSF Big Data Regional Hubs (BD Hubs) is a great starting point, but the funding is very small since the BD Hubs serve not only the creation of data-related partnerships for smart communities but also the creation of partnerships for other data-related societal challenges.

There is a **major urgency of continuous funding** to keep the embedded IoT cyberinfrastructures within Smart Communities up-to-date, secure and follow up with the innovations coming from IoT RD&D efforts. This is an important point and one that is quite different from many other kinds of computer science research funding. Many dimensions of the IoT solutions, which have to last decades and exist in the presence of constant technology changes, are different from traditional CS funding model. For example, the deployed IoT cyber-infrastructures for smart grid will need to last for the next 5-10 years to keep the cost of electric utility service feasible for majority of citizens. This aspect of funding is often forgotten and not planned for, causing disruptions in city services as the dependences on IoT cyberinfrastructures increase!

To learn more, please read the entire white paper.
Obama Announces Historic Science “Computer Science for All” Initiative

On January 30, President Obama announced a new Computer Science Education initiative that would allow states to take the lead in increasing access to CS in K-12 classrooms. We highlighted the exciting initiative on the CRA Policy Blog and the CCC Blog.

The initiative, which will be included in the President’s FY 2017 Budget Request to Congress on February 9th, will designate $4 billion for states available over 3 years, and $100 million directly for districts, to increase access to K-12 computer science education “by training teachers, expanding access to high-quality instructional materials, and building effective regional partnerships.” He will also direct NSF to spend more than $120 million over the next five years to support and train CS teachers. The White House released a fact sheet describing the new initiative, called “Computer Science for All.”

The policy blog post underscores how unprecedented this is for computing:

That the President would choose to highlight this in the run-up to the release of his final budget request to Congress is pretty huge news — I’m not sure CS has ever gotten quite this much Presidential visibility. But it’s a clear sign of the growing understanding in Washington of the importance of computing education.

“In the new economy, computer science isn’t an optional skill — it’s a basic skill, right along with the three Rs.”

— President Obama, Jan. 30, 2016.

The CCC post shares some of their current efforts related to CS education:

As we noted a few weeks ago with the release of our Computing Education Whitepaper, President Obama said in his final State of the Union Address, that “helping students learn to write computer code” was among his goals for the year ahead.

A growing number of cities and districts — such as New York City, Chicago, and San Francisco, and states, like Arkansas and Washington — have taken their own initiative and put plans in place to offer computer science courses to all students in K-12 public schools.

The “CS for All” initiative has received a great amount of support from the community. CRA will continue to cover the initiative and keep you informed with the latest.
Computer Science for All

By Jim Kurose, Assistant Director of the National Science Foundation for Computer and Information Science and Engineering

It is a very exciting time for Computer Science (CS) education! I know our community was proud and excited to hear President Obama explicitly call out CS education in his final State of the Union address. Even more recently, on Saturday, January 30th, the President unveiled the Computer Science for All initiative in his weekly address to “make sure all our kids get an opportunity to learn computer science”. This high-profile attention reflects the central role that computer and information science and engineering has come to play in so many aspects of our daily lives.

Our Nation’s ability to meet the President’s stated goal is only possible because of the efforts of the computing community together with many others across the country – educators, local, state, and federal governments, industry, and private organizations – all of whom have been working to lay the foundations to realize this goal. In fact, leading up to the CS for All announcement, we’ve seen growing interest in CS education from states and cities (e.g., Arkansas, New York City, Chicago).

With this initiative, the National Science Foundation (NSF) is committing $120 million over five years to accelerate its efforts to enable rigorous and engaging CS education in schools across the Nation. This investment will support the development of prototypes of instructional materials, assessments, scalable and sustainable professional development models, and teacher resources, along with research to study their effectiveness. Read more about NSF’s role and commitments in our press release. For more information, you can also check out NSF’s two new websites that help to spotlight NSF’s role in CS education and CS for All.

NSF’s Computer and Information Science and Engineering (CISE) Directorate (particularly under the leadership of Jan Cuny, CISE Program Director for Education and Workforce Development), in collaboration with the Education and Human Resources (EHR) Directorate and the broad CISE PI community have played critical roles in moving CS education forward in the last decade and paving the way for CS for All. It has been an “all hands on deck” effort, and we are proud to work with partners across the Federal government such as the White House Office of Science and Technology Policy, the Department of Education, the Department of Defense, and the Corporation for National and Community Service; and partners from across the private sector such as Code.org, the College Board, the National Math and Science Initiative, Project Lead the Way, Teach for America, and 100Kin10 as part of this initiative.

We can all be proud of the impact of CS, and CISE, and the wide recognition that it is receiving at the national level. We at NSF look forward to continuing to work with you to help empower our Nation’s students with a strong foundation in computer science!
Announcements

CRA and CRA-W Welcome Ayla Mangold

Ayla Mangold is the newest member of the CRA team. She joins CRA as a Program Assistant responsible for assisting the Director of Programs and Program Associate in planning and organizing various activities and events for the Committee on the Status of Women in Computing Research (CRA-W).

Currently, Ayla is completing her Master’s of Arts in Museum Studies at George Washington University. Ayla is focused on her professional career and learning more about the computer science field while working at Computing Research Association.

In her spare time, Ayla has a passion for the outdoors and museums.

ACSA, CRA-W, and Hewlett Packard Enterprise Announce Scholarship for Women in Information Security

Scholarships for Women Studying Information Security is a program that provides an average of 15 female Bachelor’s and Master’s cybersecurity students $5,000 to $10,000 scholarships each year. CRA-W in partnership with Applied Computer Security Associates (ACSA) and sponsorship from ACSA and Hewlett-Packard Enterprise are proud to announce that the 2016-2017 SWSIS Scholarship Application is open!

Deadline: February 29, 2016
Submit Your Application Today!

Beca Award

Take the time to nominate an individual for the CRA-W Borg Early Career Award (BECA). Nominations are open to women who are early in their careers in computer science and engineering and deserve to be recognized for significant research contributions and positive/significant impact on advancing women in the computing research community.

Deadline: February 15
Announcement of Winner: May 25
Nominate someone today!
NSF CISE 2016 CAREER Proposal Writing Workshop

The following is a guest blog post by Thyaga Nandagopal, National Science Foundation (NSF) Program Director for Computer and Network Systems (CNS).

The NSF Directorate for Computer & Information Science & Engineering (CISE) will host a one-day workshop on CAREER Proposal Writing on April 4, 2016. This workshop will be held at the Westin Arlington. The goal of this workshop is to introduce junior CAREER-eligible faculty to the NSF CAREER program and help them to prepare their CAREER proposals to target CISE programs. Attendees will have the opportunity to improve their skills in proposal writing, as well as to interact with NSF program directors from different CISE divisions (ACI, CCF, CNS, and IIS) and recent NSF CAREER awardees. The workshop is also open to multidisciplinary researchers with a CISE-specific focus, including cyberinfrastructure. The workshop includes presentations and discussions on proposal preparation, experience sharing, a mock panel, and meetings with Program Directors from various research programs within CISE. In order to attend this event, registration is required on or before February 21, 2016. For more information, please visit: https://www.nsf.gov/cise/workshops/career/index.jsp

David Johnson Elected to National Academy of Engineering

Congratulations to former CRA Board member David Johnson (Columbia University) for being elected a member of the National Academy of Engineering (NAE). Johnson served on the CRA Board from 1997 to 2000. He is being recognized for his contributions to the theory and practice of optimization and approximation algorithms.

Election to the National Academy of Engineering is among the highest professional distinctions accorded to an engineer. Academy membership honors those who have made outstanding contributions to “engineering research, practice, or education, including, where appropriate, significant contributions to the engineering literature” and to “the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education.”

This CCC Blog post highlights computer scientists who were elected members (including Johnson). To see a full list of the newly elected members and foreign members, check out the NAE press release.
CRA Board Members

Sarita Adve, University of Illinois
Nancy Amato, Texas A&M University
Ronald Brachman, Yahoo Labs
Tracy Camp, Colorado School of Mines
Anne Condon, University of British Columbia
Tom Conte, Georgia Tech
David Culler, UC Berkeley
Mary Czerwinski, Microsoft Research
Susan Davidson, University of Pennsylvania
Eric de Sturler, Virginia Tech
David Ebert, Purdue University
Joel Emer, NVIDIA/MIT
Stephanie Forrest, University of New Mexico
Michael Franklin, UC Berkeley
Lise Getoor, UC Santa Cruz
Dan Grossman, University of Washington
Laura Haas, IBM Research – Almaden
Gregory Hager, Johns Hopkins University
Brent Hailpern, IBM Research – Almaden
Mary Hall, University of Utah
Susanne Hambrusch, Purdue University
H.V. Jagadish, University of Michigan
Farnam Jahanian, Carnegie Mellon University
Chris Johnson, University of Utah
Margaret Martonosi, Princeton University
Kathryn S. McKinley, Microsoft Research
Greg Morrisett, Cornell University
Barbara Ryder, Virginia Tech
Vivek Sarkar, Rice University
Fred Schneider, Cornell University
Andrew Sears, Penn State University
Margo Seltzer, Harvard University
Carey Williamson, University of Calgary
Ellen Zegura, Georgia Institute of Technology

CRA Board Officers

Susan Davidson, Chair, University of Pennsylvania
Susanne Hambrusch, Vice Chair, Purdue University
Ronald Brachman, Treasurer, Yahoo Labs
Greg Morrisett, Secretary, Cornell University

CRA Staff

Andrew Bernat, Executive Director
Betsy Bizot, Director of Statistics and Evaluation
Melissa Borts, CRA Program Associate
Sandra Corbett, Program Associate
Khari Douglas, Program Associate, Computing Community Consortium
Ann Drobnis, Director, Computing Community Consortium
Jill Hallden, Accounts Payable Specialist
Peter Harsha, Director of Government Affairs
Sabrina Jacob, Administrator
Ayla Mangold, CRA Program Assistant
Brian Mosley, Policy Analyst
Erik Russell, Director of Programs
Shar Steed, Communications Specialist
Jane Stout, Director, Center for Evaluating the Research Pipeline
Burçin Tamer, Research Scientist, Center for Evaluating the Research Pipeline
Heather Wright, Research Associate, Center for Evaluating the Research Pipeline
Helen Wright, Senior Program Associate, Computing Community Consortium

Column Editor

Expanding the Pipeline
Patty Lopez, Intel
Professional Opportunities

**Allegheny College**

*Assistant Professor of Computer Science*

The Department of Computer Science at Allegheny College invites applications for a tenure-track position beginning August 2016. Applicants with interdisciplinary interests that combine computer science with, for instance, art, biology, economics, data science, media and communication, or environmental science are particularly encouraged to apply. Candidates with expertise in computer architecture, graphics and data visualization, human-computer interaction, mobile computing, networking, or other areas of computer science are also invited. Qualifications include a Ph.D. in computer science or a related field.

The teaching load is 6 courses per academic year, with a laboratory course in computer science counting as 1.5 courses. All faculty must participate in both the teaching of college-wide first-year/sophomore seminars that emphasize writing and speaking and the advising of senior thesis research projects. Beyond providing evidence of the ability to effectively teach and advise diverse undergraduate students, applicants must demonstrate a commitment to ongoing scholarship.

Details about the Department of Computer Science’s students, faculty, staff, facilities and this position are available at [http://www.cs.allegheny.edu](http://www.cs.allegheny.edu). Interested candidates should send a letter of application, curriculum vitae, statement of teaching and research interests, applicable transcripts, and arrange to have three letters sent from references, at least one of whom can comment on teaching, to: Gregory M. Kapfhammer, Associate Professor and Chair, care of Pauline Lanzine, cssearch@allegheny.edu. Review of applications will begin immediately and continue until the position is filled.

Allegheny College is a highly selective private liberal arts college in northwest Pennsylvania with an increasingly diverse student body and a dedicated faculty of teacher-scholars. Allegheny College is an Equal Opportunity Employer, with a strong commitment to diversity, inclusion, and equity. Women, veterans, individuals with disabilities, and members of other underrepresented groups are encouraged to apply. Allegheny College does not discriminate on the basis of race, color, religion, gender, gender identity, gender expression, sexual orientation, age, or national origin.

**Antalya International University - Antalya – Turkey**

*Computer Engineering*

*Assistant / Associate / Full Professor*

Antalya International University (AIU) in Turkey invites applications for multiple faculty positions in all areas of computer engineering and computer science disciplines. Priority will be given to the candidates in areas of software engineering, high-performance computing, robotics and vision. The positions are anticipated to be filled at the assistant professor rank, however, appointments at associate and full professor levels might be considered for outstanding candidates.

The targeted start date for the positions is August 15, 2016 or earlier. Applications from women, minorities, and non-Turkish citizens are encouraged. The successful candidates will be expected to teach undergraduate and graduate courses in a field of computer engineering/computer science, develop a sponsored research program, advise and mentor students at the undergraduate and graduate level, collaborate with other faculty in multidisciplinary research, interact and participate in outreach activities, and be involved in service to the institute and the profession. The successful applicant must have earned a Ph.D. degree in computer engineering/computer science or a closely related field. and should have an excellent command of English. Applicants must have evidence of scholarship/research and record of external funding for research for consideration of appointment at the associate or full professor level.

Antalya International University (AIU) is a newly founded, private institution in Antalya, Turkey. The medium of instruction is English. AIU has established an international education services office and is rigorously recruiting foreign students with an objective to have 50% of the incoming freshmen being non-Turkish citizens in the next five years. AIU is an equal opportunity employer. Salary is very competitive and commensurate to rank, experience and qualifications. Several fringe benefits (relocation package, medical health insurance, retirement benefits) will apply. Housing assistance may be provided for some candidates.

**Application Instructions**

Applicants should submit a cover letter, curriculum vitae, including academic and professional experience, list of publications, statement of teaching philosophy and research interests/objectives, and contact information for at least three references as a single PDF file to cs_recruit@antalya.edu.tr. Please format the file name as *LastName_Computer Engineering Faculty Search* in the subject line of the email. Short-listed candidates will be informed for formal interviews.

Review of applications will begin on January 15, 2016, and continue until the positions are filled. For further information about Antalya International University (AIU), please visit [www.antalya.edu.tr](http://www.antalya.edu.tr).

**Beijing Institute of Big Data Research**

*Principal Investigator*

Beijing Institute of Big Data Research (BIBDR) is a new institution jointly sponsored by the Peking University, the Beijing University of Technology, the Zhongguancun Science Park and the Haidian District government.
Professional Opportunities

under the supervision of the municipal government of Beijing. It is the first institution in China that combines education, research, entrepreneurship and government service. Its mission is to create a world class research and education program that can serve both as the model for developing data science in China and as a platform for nurturing new enterprises in big data.

Big data in China has a huge market and encompasses a huge interest, yet progress has been hindered severely by the lack of qualified personnel. BIBDR’s priority is to attract the best people in all fronts (research, education, entrepreneurship) in big data and create the platform for these people to achieve their goals. This is done by joining forces from the academia, industry and the government. BIBDR is in the process of setting up basic research labs such as the Deep Learning Lab, the Natural Language Processing Lab, as well as application driven units such as the Center for Financial Data, the Center for Transportation Data, the Center for Medical and Health Data, etc.

For the last six years, Peking University has made serious progress in the area of data science. A committee headed by the provost Professor Song Gao has been created to oversee and coordinate data science programs across campus. In 2015, Peking University launched an undergraduate program in data science. Its graduate program in data science has won approval by the Ministry of Education. The Beijing University of Technology has also been very actively involved in big data research, particularly in the area of transportation data. At the same time, Zhongguancun Science Park and the Haidian District has been home to the most vibrant big data industry in China, with names such as Baidu.

China has made gigantic progress in the area of internet. Its potential in the area of big data is at least as big. BIBDR is leading the way to make it happen. For those who are interested in joining this cause, BIBDR will provide a platform as well as a competitive compensation package.

Application Instruction: Please send your cv to: bibdr@pku.edu.cn

The College of William & Mary

Two Faculty Positions in Computer Science

The Department of Computer Science invites applications for two tenure-track positions at the Assistant Professor level to begin in Fall 2016. We are interested in exceptional

Tenure-Track Faculty

Information Science Department – Cornell University

Cornell is a community of scholars, known for intellectual rigor and engaged in deep and broad research, teaching tomorrow’s thought leaders to think otherwise, care for others, and create and disseminate knowledge with a public purpose.

The Information Science Department at Cornell University invites applications for tenure-track faculty positions. Exceptional candidates in all areas related to the department’s current research trajectories and priorities will be given serious consideration; these include human-computer interaction (HCI) and interaction design; computer-supported cooperative work (CSCW) and computer-mediated communication (CMC); information policy; network science; crowdsourcing; the history and anthropology of computing and data; the interface of economics and information; critical and interpretive analysis of information systems; human-robot interaction (HRI); ubiquitous computing; applications and analysis of large datasets; information visualization; the sociology of organizations and innovation; and information science approaches to societal challenges. We invite applicants at any rank. Assistant Professor candidates must receive a Ph.D. or equivalent degree by August 2016, and must demonstrate the potential to achieve excellence in research and teaching at both the graduate and undergraduate levels. More senior candidates should hold a Ph.D. or equivalent degree and must have an established record of outstanding research and excellent teaching at both the graduate and undergraduate levels; salary and rank will be commensurate with qualifications and experience. Experienced applicants may merit a tenured Associate Professor or Professor position, depending on their qualifications.

Applicants should submit a cover letter, curriculum vita (CV), brief statements of research and teaching interests, and arrange to have at least three reference letters submitted. In the cover letter, CV, or research statement, applicants should identify a small set of their most significant pieces of work.

Information Science at Cornell University brings together faculty, students and researchers who share an interest in advancing our understanding of how people and society interact with computing and information. The Information Science Department is housed in the Faculty of Computing and Information Science, and located in Cornell’s new Gates Hall. It has strong connections with several other units on campus, including: Computer Science (with which it shares Gates Hall), Communication, Economics, Sociology, Science and Technology Studies, Operations Research and Information Engineering, and Cognitive Science.

The Information Science Department at Cornell embraces diversity and seeks candidates who will create a climate that attracts students of all races, nationalities and genders. Cornell University is an affirmative action, equal opportunity employer and educator. Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches.

Applications will be accepted until the position is filled. Information about the Information Science Department appears at www.infsci.cornell.edu.

Application Deadline: 12.15.2015 or until positions are filled.

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university’s mission of teaching, discovery and engagement. Located in Ithaca, NY, Cornell’s far-flung global presence includes the medical college’s campuses on the Upper East Side of Manhattan and in Doha, Qatar, as well as the new CornellNYC Tech campus to be built on Roosevelt Island in the heart of New York City.

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

applicants from all areas of computer science. Applicants must hold a Ph.D. in computer science or a related field at the time of appointment (August 10, 2016) and must have a strong research record and an interest in teaching.

William & Mary is consistently ranked in the elite group of the Best National Universities-Doctoral by U.S. News and World Report and is committed to a multi-year effort to strengthen and expand its computer science research program. With a teaching load of two courses per year and institutional support, the department has been rising in national rankings of graduate CS departments, and has been the home of multiple NSF and DOE Career Awards. The department offers B.S., M.S., and Ph.D. programs. More information about the department can be obtained at http://www.cs.wm.edu.

Candidates should apply online at https://jobs.wm.edu (follow the link for instructional faculty). Please submit a curriculum vitae and a cover letter including a statement of research and teaching interests. Candidates will be prompted to submit online the names and email addresses of three references who will contact with instructions for submitting letters of recommendation. We will begin reviewing applications on January 4, 2016 and continue accepting applications until the positions are filled. The College of William & Mary values diversity and invites applications from underrepresented groups who will enrich the research, teaching and service missions of the university. The College is an Equal Opportunity/Affirmative Action employer and conducts background checks on applicants for employment.

Drexel University

Dean of the College of Computing and Informatics (CCI)

Drexel University seeks applications and nominations for the position of Dean of the College of Computing and Informatics (CCI). Drexel University is one of the most innovative, exciting, and entrepreneurial research universities in America. Founded in 1891 by Philadelphia financier and philanthropist Anthony J. Drexel, the university has become recognized as a national research university with global reach and as a worldwide leader in experiential education.

The newly-formed College of Computing and Informatics draws its strength from the convergence of Drexel’s multiple highly-regarded professional computing and informatics programs from across the University. The College’s preeminent faculty (over 70 full-time) represents diverse, multidisciplinary interests ranging from the social and behavioral sciences, through business and engineering to library, computer and information sciences; their research shapes these fields and informs both the disciplines and industry. The College prepares students to enter the professional world during this unprecedented era of technological transformation through its undergraduate, masters and doctoral programs.

The new Dean will step into the role at a momentous time for CCI. With two highly-regarded and productive departments (Computer Science and Information Science) already brought together under the auspices of one College, the Dean will have the unique opportunity to ensure its identity evolves into that of a fully integrated, cohesive college and is recognized as a leader in its growing academic field. The Dean will set a vision for CCI that clearly communicates its identity and mission to the relevant markets—for employers, students, alumni, and external funding agencies. The Dean will put the College on a path to meet the needs of a constantly changing field, and of the employer marketplace, and will help the College to capitalize on the opportunities within the Drexel community—such as collaborations with other Schools and Colleges, and leveraging the University’s new Innovation Neighborhood initiative.

A Ph.D in a discipline relevant to the academic mission of CCI is preferred. Candidates with distinguished scholarly accomplishments and records of success in academic administration are strongly encouraged. Candidates with compelling experience and accomplishment outside of academia will be considered.

Applications will begin immediately. Inquiries, nominations and applications should be directed electronically to:

Email: drexelccidean@kornferry.com
Korn/Ferry
1835 Market Street, Suite 2000
Philadelphia, PA 19103

Drexel University is an Equal Opportunity/Affirmative Action employer, welcomes individuals from diverse backgrounds and perspectives, and believes that an inclusive and respectful environment enriches the University community and the educational and employment experience of its members. The University prohibits discrimination against individuals on the basis of race, color, national origin, religion, sex, sexual orientation, disability, age, status as a veteran or special disabled veteran, gender identity or expression, genetic information, pregnancy, childbirth or related medical conditions and any other prohibited characteristic. Please visit our website to view all University Policies and Workplace Postings.

Eastern Michigan University, Ypsilanti, Michigan

School of Information Security & Applied Computing (SISAC)

Assistant Professor - Information Assurance

Position Description:

SISAC invites applications for two tenure-track positions in IA starting Fall, 2016. SISAC is a designated Center of Academic Excellence in Information Assurance Education with an undergraduate IA program.
Professional Opportunities

as well as graduate and PhD concentrations in Information Assurance.

Candidates must possess:
- Ph.D. in Computer Science, Computer Information Systems, or a closely related field
- Evidence of ability to deliver high-quality instruction in Information Security, Information Technology and Applied Computing disciplines.
- Documented publications and/or proposal development for external funding in a relevant field, and the ability to continue such an agenda

Application Instructions:
Apply at: https://www.governmentjobs.com/jobs/1281168/assistant-professor-information-assurance

Farmingdale State College
Assistant Professor - Computer Systems (2 Positions)
Farmingdale State College, a campus of SUNY, is a college of applied science & technology with enrollment of more than 8,400 undergraduate students. It is seeking to fill 2 tenure-track positions at the rank of Assistant Professor beginning Fall 2016 (both contingent on budget approval).

VISA SPONSORSHIP IS NOT AVAILABLE FOR THIS POSITION

Applications with curriculum vitae should be submitted at www.farmingdale.edu

EOE/AA

Fontbonne University
Tenure-Track Faculty Position in Computer Science
The Department of Mathematics and Computer Science at Fontbonne University invites applications for a tenure-track faculty position (Assistant or Associate Professor) in Computer Science to begin in the fall of 2016.

We seek a motivated, organized, enthusiastic and excellent instructor and researcher who can teach master level computer science courses, especially in the area of data mining, and also general undergraduate computer science courses. The new hire will be the Director of the MS in Computer Science program.

Qualified candidates must:
- Hold a Ph.D. in computer science with strong data mining expertise and credentials.
- Demonstrate evidence of excellence in teaching at the university level.
- Demonstrate a record of research in computer science and data mining.
- Be willing to assume department and university responsibilities such as advising students, directing student research projects, supervising internships and participating in university governance.
- Have experience working in a diverse environment and/or with students from diverse backgrounds.

Indiana University
School of Informatics and Computing
Lecturer Positions in Computer Science and Informatics Programs

The School of Informatics and Computing at Indiana University Bloomington invites applications for up to six, non-tenure track Lecturer positions in the Computer Science and Informatics programs to begin as early as August 2016.

We are particularly interested in candidates who can teach courses in one or more of the following areas: introductory programming, C++, Python, Unix, CGI/PHP, C#, Java, Windows, math and logical foundations, introductory security, graphics, mobile application development, human centered computing and human computer interaction, database design and access, and social informatics.

Lecturers at Indiana University are valued members of faculty and are expected to support the teaching mission of the School of Informatics and Computing through excellence in pedagogical practice, service to the school and academic programs, and inquiry into the advancement of pedagogy in computing. In addition to course responsibilities you will also be responsible for supervising Associate Instructors assigned to your classes, development of laboratory material, grading, and other duties as assigned. After successfully completing a probationary period, Lecturers will be eligible for long-term contracts and promotion to a Senior Lecturer position. Salary will be commensurate with qualifications and experience.

Candidates should possess a graduate degree (before August 2016) in Computer Science, Informatics, Information Science, or a related discipline, and must have two academic years’ experience (may be part-time).

Interested candidates should submit a letter of application, a current CV, teaching statement and philosophy, a list of specific courses they are prepared to teach, and names and contact information for three references using the submissions links at:

http://indiana.peopleadmin.com/postings/2149 Computer Science Lecturer
http://indiana.peopleadmin.com/postings/2150 Informatics Lecturer

For full consideration completed applications must be received by March 4, 2016. The search will remain open until the positions are filled.

Questions may be sent to hiring@soic.indiana.edu or by mail to Lecturer Search, 919 E 10th Street, Bloomington, IN 47408.

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

- Demonstrate excellent communication (oral and written), organizational, and networking skills.
- Support the university’s mission statement.

Review of applicants will begin January 19, 2016. Please apply online at www.Fontbonne.edu/employment. Please provide a current curriculum vita, a statement of teaching philosophy, evidence of teaching effectiveness, a brief statement of research interests/ accomplishments, and the names of three references.

The George Washington University

Department Of Computer Science
Chair and Tenured Full Professorship

The George Washington University invites applications for Chair of the Department of Computer Science to begin as early as the summer of 2016. The applicants should qualify for the position of tenured full professor in the department. The chair will hold an endowed professorship. This is an opportunity for a person with outstanding qualifications to lead and to expand an established and growing department.

George Washington (GW) is the largest university in the nation’s capital with close access to many federal funding agencies and research laboratories. The University offers comprehensive programs in undergraduate and graduate liberal arts studies, as well as, degrees in engineering, law, medicine, public health, education, business and international affairs. In support of its emphasis on research in science and technology, the University has constructed a new 500,000 square foot Science and Engineering Hall in the heart of campus; this includes state-of-the-art research and instructional laboratories, clean rooms, imaging facilities, and other modern facilities. The School of Engineering and Applied Science, including the Computer Science Department, moved into the building in the spring of 2015.

The Department of Computer Science offers B.S., B.A., M.S. and Ph.D. degree programs in Computer Science, and an M.S. degree program in Cybersecurity. Its education and research programs span core, as well as, cutting-edge areas, with funding from NSF, NIH, DOD, NASA and other sources. Additionally, the University is a federally-designated Center of Academic Excellence in Research on security. Due to the high demand of Computer Science in the Washington area, the new chair will oversee a rapid expansion of the faculty.

The new Chairperson will be expected to lead the Department, to supervise all of its resources, and to promote and support excellence in teaching and research. Equally, the new Chairperson, will lead an effective recruiting of talented faculty and students; he or she will vigorously catalyze and further develop the Department’s collaborations and relationships across the University and with Government and industry. The new Chairperson will be an active promoter of diversity, an enthusiastic proponent of creativity, innovation and outreach, and an effective advocate and spokesperson for the Department, both within and beyond the University.

Applicants must have:
- a doctorate in Computer Science or a closely related field
- evidence of outstanding research and academic achievements with a strong reputation in the research and professional community
- a demonstrated ability to teach effectively at both graduate and undergraduate levels.

Inquiries will be accorded the utmost discretion. To inquire, please email: Roger Lang, Interim Chair of the Computer Science Department (cschsearch@gwu.edu). To apply, complete the online faculty application, at http://www.gwu.jobs/postings/30469 and upload a detailed CV or resume, full contact information for five professional references and a cover letter that describes your research and teaching accomplishments and your views of growth opportunities in computer science. References will be expected to address research and teaching skills necessary for appointment at the full professor rank, as well as, skills for the chair position including leadership, interpersonal, administrative, and mentoring abilities. Only complete applications will be considered.

Review of applications will begin on January 4, 2016 and continue until the position is filled. Employment offers are contingent on the satisfactory outcome of a standard background screening.

The George Washington University is an Equal Employment Opportunity/Affirmative Action Employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis prohibited by applicable law.

Applications from women and underrepresented minority groups are strongly encouraged.

Indiana University-Purdue University Indianapolis (IUPUI)

Department of Computer and Information Science
Tenure-track Faculty Position

The Department of Computer and Information Science at IUPUI invites applications for a tenure track faculty position at the Assistant or Associate Professor level, beginning August 2016. An applicant must hold a Ph.D. in Computer Science or a closely related field at the time of appointment, and is expected to develop a high-quality externally funded research program and be committed to excellence in teaching undergraduate
Professional Opportunities

and graduate students. While we welcome applicants in all areas of computer science to apply, we are especially interested in candidates in the area of Big Data, with preference for candidates whose research overlaps with one or more of the areas of (a) Computational Science, (b) Security, (c) Natural Language Processing, and (d) Data Visualization.

The application should be submitted via email (as PDF files) to the Faculty Search Committee (wittlief@cs.iupui.edu), and must consist of a letter of interest, curriculum vitae, and a statement of research direction and teaching interests. Applicants should also arrange for three letters of recommendation sent directly to the Faculty Search Committee via email. Evaluation of applications will begin on January 1, 2016 and will continue until the position is filled.

The IUPUI campus, located in downtown Indianapolis, is an urban comprehensive research university with 19 academic schools, including one of the largest medical schools in the nation. The Department of Computer and Information Science offers Purdue University degrees at the Bachelor, Master, and Ph.D. levels, with nearly 300 undergraduate majors and 200 graduate students. The Department currently has 15 full time tenure track faculty and 3 full time lecturers. The CIS faculty members are committed to high quality research and teaching, with research foci on data mining, imaging/visualization, high performance computing, software engineering, and networking/network security. Faculty research programs are well funded by NSF (including several CAREER awards in recent years), NIH, NASA, NIJ and DoD. For further information about the Department, please visit http://www.cs.iupui.edu.

IUPUI is an EEO/AA Employer, M/F/D. We are committed to achieving excellence through cultural diversity. Applications and nominations of women, persons of color, applicants with disabilities, and members of other under-represented groups are desired.

La Jolla Institute for Allergy & Immunology (LIAI), San Diego, CA
Postdoctoral Positions In Bioinformatics

Dr Ferhat Ay’s lab at LIAI has multiple postdoctoral positions available. LIAI is an independent, non-profit research institute located in UC San Diego’s Science Research Park.

Application instructions: http://www.liai.org/pages/career-positions-postdoctoralpositions-bioinformatics-postdoc-VD-Ay

Lehman College of the City University of New York
Department of Mathematics and Computer Science
Two Tenure-Track Assistant/Associate Professors

The Department of Mathematics and Computer Science invites applications for two tenure-track assistant/associate professorships beginning Fall 2016.

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.

The position announcement, which include a full job description and qualifications are posted on the Careers at Lehman page at http://lehman.edu/careers-at-lehman/.

HOW TO APPLY
Visit www.cuny.edu. access the employment page. log in or create a new user account, and search for this vacancy using the Job ID I4023 or Title. Select “Apply Now” and provide the requested information.

EQUAL EMPLOYMENT OPPORTUNITY
CUNY encourages people with disabilities, minorities, veterans and women to apply. At CUNY, Italian Americans are also included among our protected groups. Applicants and employees will not be discriminated against on the basis of any legally protected category, including sexual orientation or gender identity. EEO/AA/Vet/Disability Employer.

Department of Media and Information
TENURE SYSTEM ASSISTANT PROFESSOR IN DATA SCIENCE AND HEALTH

The Department of Media and Information (M&I) at Michigan State University (MSU) invites applications for a full-time, tenure system faculty position at the rank of Assistant Professor in the area of data analytics with a strong interest in health, health IT, e-health, and/or m-health.

More details are available at http://cas.msu.edu/job/posting-1632/. To apply, please visit the Michigan State University Employment Opportunities website (https://jobs.msu.edu), refer to Posting #1632, and complete an electronic submission. Review of applications will begin immediately, and continue until the position is filled.

MSU is committed to achieving excellence through cultural diversity. The University actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

MSU is an Affirmative Action, Equal Opportunity Employer.
Professional Opportunities

**Michigan State University**

**Computer Science and Engineering**

**Faculty Positions in Cybersecurity, Biometrics and Machine Learning**

Join Michigan State University’s Global Impact Initiative, designed to address the grand challenges through the creation of over 100 new faculty positions in some of the most promising and exciting fields of research. We welcome applicants from diverse backgrounds. MSU offers an inclusive and collaborative work environment. To learn more visit research.msu.edu/global-impact.

The Department of Computer Science and Engineering (CSE) at Michigan State University (MSU) invites applications for three tenure-system faculty positions, one position in the area of cyber security, and one position in the area of biometrics, and one position in machine learning and related areas. The biometrics and machine learning positions are targeted at the junior faculty level and the cyber security position at the senior level, but candidates may be considered at all ranks for all positions.

The successful candidates will be expected to develop an externally-funded interdisciplinary research program of national prominence that includes fundamental research, publications in journals and high quality conferences, and training graduate students. Multidisciplinary research is strongly encouraged and is being actively pursued by the faculty members at MSU. Leadership is expected in the development of innovative educational programs that provide state-of-the-art knowledge to both undergraduate and graduate students. Candidates should have a Ph.D. in Computer Science or a closely related field, with demonstrated evidence of research accomplishments, teaching skills, and ability to work effectively with other researchers within the Department and colleagues on campus. Appointments will start in August 2016.

MSU enjoys a park-like campus with outlying research facilities and natural areas. The campus is in the city of East Lansing and adjacent to the capital city of Lansing. The Lansing metropolitan area has a diverse population of approximately 450,000 residents. Local communities have excellent school systems and place a high value on education. Michigan State University is pro-active in exploring opportunities for employment for dual career couples, both inside and outside the University, see http://miwin.msu.edu/. Information about work and life at MSU and the College of Engineering can be found at http://www.egr.msu.edu/WE.

Applicants should submit a cover letter, curriculum vitae, the names of at least three references, and statements of their research and teaching interests through http://jobs.msu.edu and refer to posting 2340. Applications will be reviewed on a continuing basis until the positions are filled. Review of applications will begin on January 4, 2016. For questions about these positions, contact the search committee chair at search@cse.msu.edu.

Additional information about the university, college and department is available at:

CSE Department - http://www.cse.msu.edu
College of Engineering - http://www.egr.msu.edu/
MSU - http://www.msu.edu/

Michigan State University has been advancing the common good with uncommon will for more than 160 years. A member of the Association of American Universities. MSU is a research-intensive institution with 17 degree-granting colleges.

MSU is an affirmative-action, equal opportunity employer. MSU is committed to achieving excellence through a diverse workforce and inclusive culture that encourages all people to reach their full potential. The University actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

**Missouri University of Science and Technology**

**Computer Science - Electrical and Computer Engineering**

**Engineering Management and Systems Engineering**

**Faculty Position in Smart Cyber-Physical Systems**

The Departments of Computer Science, Electrical and Computer Engineering and Engineering Management and Systems Engineering at the Missouri University of Science and Technology are seeking a tenure-/tenure-track faculty member (open rank) in the broad area of SMART CYBER-PHYSICAL SYSTEMS. This is intended to build on existing research strengths in cyber-physical systems, communications (e.g. extreme connectivity, reliability, dynamic reconfiguration), smart environments (e.g., smart grid, smart transportation, smart healthcare, disaster response and extreme event management), decision-making, data mining and analytics, and security to address key challenges facing smart and connected communities.

Missouri S&T is located in Rolla and offers abundant outdoor recreational opportunities in the beautiful Ozark Mountain region. Information about the university and the departments can be found at https://cs.mst.edu/ for CS, http://ece.mst.edu/ for ECE, and http://emse.mst.edu/for EMSE.

Candidates must submit an electronic application at jobs.mst.edu. They must include Position Reference Number 00065395. For further details please see the following site using job ID 18533: https://myhr.umystem.edu/psp/tamext/ROLLA/HRMS/c/HRS_HRAM.HRS_CE.GBL?SiteId=10

Missouri S&T is an AA/EEO employer and does not discriminate on the basis of
Professional Opportunities

Missouri University of Science and Technology

One Full-Time, Tenure-Track Faculty Positions

Missouri University of Science and Technology invites applications for one full-time, tenure-track faculty positions in advanced manufacturing, including novel manufacturing processes, additive manufacturing, bio-manufacturing, micro/nano-manufacturing, cyber enabled manufacturing, and areas complementary to advanced manufacturing. Although candidates in other areas of advanced manufacturing will also be considered. We are particularly interested in qualified candidates who have expertise in one or more of the following areas: metrology, materials processing, process control, cloud and big data, multi-scale modeling and analysis, and design for materials/manufacturing/systems. The openings are anticipated to be filled at the assistant professor level, however, appointment at a higher level will also be considered. The appointment is anticipated to begin Fall 2016.

With leading researchers and facilities for additive manufacturing, micro- and nano-manufacturing, and sensor-enabled intelligent manufacturing, Advanced Manufacturing at Missouri S&T is well-positioned to develop into a world-class research enterprise. The university is one of 23 university partners in a national initiative to reinvent manufacturing through Digital Labs, announced by President Obama in February 2014. Finally, it has three industrially relevant national research centers: the Center for Aerospace Manufacturing Technologies; the Peaslee Steel Manufacturing Research Center; and a site of the NSF Industry-University Cooperative Research Center in Intelligent Maintenance Systems.

Qualified candidates will possess a Ph.D in mechanical engineering, electrical engineering, industrial engineering, materials science, computer science or related fields. Successful candidates will be required to demonstrate the potential to establish and grow a strong research program and will participate in all aspects of Missouri S&T’s mission, which includes research, teaching and service.

Review of applications will begin on Dec. 1, 2015 and applications will be accepted and reviewed until the position is filled. All application materials must be electronically submitted to the Missouri University of Science and Technology’s Human Resource Office at job number: 18263. https://myhr.umsystem.edu/psp/tamext/ROLLA/HRMS/c/HRS_HRAM.HRS_CE.GBL?SiteId=10. Acceptable electronic formats that can be used include PDF and Word.

Missouri S&T is an AA/EEO employer and does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, disability, or status as a protected veteran. Females, minorities, and persons with disabilities are encouraged to apply. The university participates in E-Verify. For more information on E-Verify, please contact DHS at 1-888-464-4218.

Missouri University of Science and Technology, Rolla, MO

Computer Science

Assistant Professor · http://cs.mst.edu/

The Department of Computer Science at the Missouri University of Science and Technology in Rolla, Missouri is seeking outstanding applicants for one or more tenure-track (TT) faculty positions in all the areas of computer science at the level of Assistant Professor. Stronger candidates at higher levels may be considered. Preference will be given to areas such as big data, cyber-physical systems, cyber security, social networks, smart and connected health, middleware and software engineering. Competitive salary commensurate with the rank and qualifications of the candidates will be offered.

The successful TT candidate will be expected to have a strong commitment to contributing to the departmental research efforts, high-quality teaching both at the undergraduate and graduate levels, and service. Applicants should hold a Ph.D in Computer Science or a closely related field by the appointment start date.

Interested TT applicants must apply at: http://hraadi.mst.edu/hr/employment using Reference Number 48994. An application should include 1) a cover letter, 2) a current curriculum vitae, 3) a statement of research and teaching interests and experience, and 4) complete contact information for four references.

Acceptable electronic formats include PDF and MS Word. Applications will be reviewed after they are received and the review of applications continues until the position is filled. More information about the position can be found at: http://cs.mst.edu.

Missouri S&T is an AA/EEO employer. Females, minorities, and persons with disabilities are encouraged to apply.
Professional Opportunities

Mount Holyoke

Visiting Assistant Professor in Computer Science and Data Science

Mount Holyoke College invites applications for a Visiting Assistant Professor in Computer Science and Data Science for a period of up to four years to begin in fall 2016. We seek individuals who apply innovative computational techniques to a diverse array of datasets to reveal novel patterns and insights. Such techniques may include advanced statistical analyses, mathematical models, machine learning, visualization, and other approaches.

Successful candidates will be housed within the Department of Computer Science and will be part of a three hire Data Science cluster that will interact with and contribute to a growing interdisciplinary Data Science program at the College http://www.mtholyoke.edu/acad/faculty/curricular-initiatives/data-science and the Women in Data Science initiative funded by MassMutual https://www.mtholyoke.edu/media/massmutual-partnership-propels-women-data-science.

Applicants are expected to have a doctorate. The applicant should have a strong commitment to research and undergraduate teaching, a research program that can easily accommodate and encourage undergraduates is crucial. The candidate is expected to teach three courses per year in his or her area of expertise at the College as well as one graduate-level course in the applicants’ area of expertise at the MassMutual Data Science Labs.

Mount Holyoke is committed to fostering multicultural diversity and awareness in its faculty, staff, and student body. Women and persons of color are especially encouraged to apply.

Applications must be made on-line at https://jobs.mtholyoke.edu by submitting a CV and three statements concerning (1) teaching philosophy, (2) research plans, and (3) mentoring a diverse student body. Applicants should also arrange to have three letters of reference submitted on their behalf. Review of applications will begin on January 10 and continue until the positions are filled. We recommend early submission because electronic prompts to referees will be generated automatically (and letters of reference accepted) only after the completed application has been submitted. For more information, please contact datascience@mtholyoke.edu.

NEC Laboratories America

Researcher – Big Data Analytics

NEC Laboratories America (http://www.neclabs.com/) conducts research in support of NEC’s US and global business. Our lab has a broad research program that covers many areas and maintains a balance of fundamental and applied research.

The Autonomic Management group (http://www.neclabs.com/research-departments/autonomic-management/autonomic-management-home) performs research on all aspects of data analytics and mining. We are creating innovative analytics from big data to simplify and automate the operation of complex physical systems (e.g., automobiles, power plants, smart city etc.), as well as large-scale IT systems and services. We have several ongoing big data analytics projects including massive time series modeling, heterogeneous log analysis, and large scale graph mining etc. Our group brings together experts in machine learning, data mining, statistics, signal processing, pattern recognition and big data processing systems. We build technologies to solve real world problems and grow NEC’s business.

Our research leads to both award-winning NEC products/solutions and numerous publications in top conferences. Our group is looking for multiple researchers to work in the area of data analytics and mining. The ideal candidates must have expertise in data mining and statistical learning, and can develop algorithms to analyze massive amount of data to build innovative analytics applications. He/she must have a PhD in CS/CE with a strong publication record in at least one of the following areas:

- Data mining and statistical learning
- Time series analysis and prediction
- Text mining and information retrieval
- Graph and information network mining
- Large scale optimization and learning
- Signal processing and information theory

NEC Laboratories America is located in Princeton, NJ, home of the Princeton University and one of New Jersey’s most beautiful and idyllic towns. The area offers many exciting cultural, entertainment and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. For more information about NEC labs, access http://www.neclabs.com/, and submit your CV and research statement through our career center at https://www.appone.com/MainInfoReq.asp?R_ID=1159570.

EOE-M/F/Vets/Disabled

New York University

Faculty Computer Science and Engineering and Center for Data Science

The Computer Science and Engineering (CSE) department, part of the NYU Tandon School of Engineering in New York University (NYU), and the Center for Data Science (CDS) at NYU invite applications for a joint, open rank, tenure-track or tenured faculty. NYU is one of the top private universities in the United States, and the Tandon School of Engineering has the distinct history of having been known previously as Brooklyn Poly and the NYU Polytechnic School of Engineering.

Applicants must have a PhD in CS/CE. The CSE/CDS department is seeking candidates with research interests in both theoretical and applied areas of computer science.

The CSE/CDS department is particularly interested in candidates with expertise in the following areas:

- Algorithms and complexity
- Cryptography
- Computer systems
- Computer networks
- Machine learning
- Data mining
- Data analytics
- Security and privacy
- Bioinformatics
- Computational biology
- Computer graphics
- Computer architecture
- Computer communications
- Computer vision
- Databases
- Computer vision
- Geometric computing
- Graphics and animation
- Human computer interaction
- Information systems
- Information technology
- Mobile and ubiquitous computing
- Networking
- Software engineering
- Software systems
- Systems security
- Web applications
- Web services

Applications should be submitted through the NYU Academic Jobs website. More information about the department can be found on the departmental website http://www.cs.nyu.edu. Applications are evaluated on an ongoing basis and will be continued until the positions are filled.
Professional Opportunities

The faculty and students of the CSE Department are at the forefront of the high-tech start-up culture in New York City and have access to world-class research centers in cyber security, visualization and data analytics, wireless communications and the game innovation lab, among other areas. The department enjoys close collaborations with the Courant Institute, the NYU Media and Games Network (MAGNET), the Center for Urban Science and Progress, the School of Medicine, and other Schools of NYU. CDS is an interdisciplinary center established recently to advance NYU’s goal of creating the country’s leading data science training and research facilities, and arming researchers and professionals with tools to harness the power of big data.

CSE and CDS invite outstanding applications with a distinguished track record of scholarship and international repute in the broad area of data science, including data management and machine learning. Candidates must have a PhD in computer science or a closely related discipline, a demonstrated ability to develop and lead high-quality research and attract external funding, and shown excellence in teaching and mentoring. Appointees are expected to contribute to teaching and advising of students at all levels in both CSE and CDS.

Applications received by March 15th, 2016 will receive full consideration. To be considered, applications must include the curriculum vitae, statements of research and teaching interests, and, for junior appointments, names of three letters of reference.

For further information, please contact the search committee chair, Claudio Silva, csilva@nyu.edu.

Applications can be submitted at: www.nyuopsearch.com/applicants/Central?quickFind=52812

New York University
Tenure Track/Tenured Faculty Position # 1075

New York University (NYU) is one of the top private universities in the United States, and the Tandon School of Engineering has the distinct history of having been known previously as Brooklyn Poly and the NYU Polytechnic School of Engineering.

The faculty and students of the Department of Computer Science and Engineering (CSE) in the Tandon School are at the forefront of the high-tech start-up culture in New York City and have access to world-class research centers in cyber security, visualization and data analytics, wireless communications and the game innovation lab, among other areas. We enjoy close collaborations with the Courant Institute, the NYU Media and Games Network (MAGNET), the Center for Urban Science and Progress, the School of Medicine, and other Schools of NYU.

The CSE Department invites outstanding applications with a distinguished track record of scholarship and international repute for tenure-track or tenured faculty appointments in all areas of computer science and engineering, with particular emphasis on game design and engineering and image data analysis. Candidates must have a PhD degree in computer science or a related discipline, demonstrate ability to develop and lead high-quality research and to attract external funding, and show excellence in teaching and mentoring.

Applications received by February 26, 2016 will receive full consideration. NYU is an affirmative action, equal opportunity employer.

Applications can be submitted at: www.nyuopsearch.com/applicants/Central?quickFind=52726

Northeastern University
Assistant/Associate/Full Professor

Position Summary

The College of Computer and Information Science invites applications for at least five tenure-track faculty positions, beginning in Fall 2016. Applicants at all ranks will be considered.

Candidates will be considered from all areas in Computer and Information Science. 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 by the start date.

Additional Information

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 51, and offers a broad array of educational opportunities to students. Since 2010, the College has hired 33 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
Professional Opportunities

undergraduate and graduate degree programs that combine computing with an important application domain. Fifteen faculty members have joint appointments with other academic departments, including Electrical and Computer Engineering, Art and Design, Health Sciences, Physics, Political Science and Business. A particular focus in the next three years is to grow the faculty, research and PhD program.

Northeastern University is home to 33,000 full- and part-time degree 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: https://neu.peopleadmin.com/postings/search.

Screening of applications begins immediately. For full consideration, application materials should be received by December 1, 2015. However, applications will be accepted until the search is completed.

Northeastern University is an Equal Opportunity, Affirmative Action Educational Institution and Employer. Title IX University. 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 the law. Northeastern University is an E-Verify Employer.

Oberlin College

Department of Computer Science

Visiting Assistant Professor of Computer Science

The Department of Computer Science at Oberlin College invites applications for a visiting faculty position for a term of 2 semesters starting in the Fall of 2016. Among qualifications is a Ph.D. degree (in hand or expected by first semester of academic year 2016-2017).

For additional information see the full posting where all applicants must apply online at https://academicjobsonline.org/ajo/jobs/6954

The Phillips Collection

The University of Maryland Center for Art and Knowledge at The Phillips Collection

The Fellowship in Virtual Culture at The University of Maryland Center for Art and Knowledge at The Phillips Collection. The fellow will research emerging forms of virtual culture and the advancement of technology to enhance and enrich/deepen the museum visitor’s experience. The fellow is expected to teach one undergraduate or graduate course at the Center or at the University of Maryland, to present at least one public lecture, and to participate in other programs and discussions with scholars, critics, museum staff, and students at the museum and the university. The fellowship begins on July 1, 2016. Complete details at: http://www.phillipscollection.org/learn/center-for-art-and-knowledge/postdoctoral-fellowships

ORNL seeks a postdoctoral researcher with strong skills in computing, software development, energy sciences, and publication record.

To apply: http://1.usa.gov/1Rp5PUz
Professional Opportunities

**Plymouth State University, Plymouth, NH**

*Computer Science and Technology Assistant Professor*

Plymouth State University’s (Plymouth, NH) Computer Science and Technology Department seeks one CS and one IT tenure-track faculty position for Fall 2016.


**Rensselaer Polytechnic Institute**

*Faculty Position in High Performance Computing*

The Department of Computer Science at Rensselaer Polytechnic Institute, Troy NY invites applications for a full-time tenure-track faculty position at the level of Assistant Professor in the area of high performance computing (HPC), including but not limited to:

- Extreme-scale parallel algorithms and architectures (many-core, GPUs and hybrid systems)
- Extreme-scale parallel data analytics
- Parallel file and operating systems
- Parallelizing compilers
- Scientific computing
- Security for high performance computing

Applicants for this position must demonstrate an outstanding record of research accomplishments and a strong commitment to teaching. An ideal applicant will have a primary focus building extreme-scale parallel software systems.

The successful candidate will have duties that include teaching graduate and undergraduate courses in the department, developing and maintaining robust programs of research and scholarship, and service to the department, the School of Science and to Rensselaer. We seek highly collaborative applicants with strong technical vision and a focus on emerging 21st century technologies and challenges.

At minimum, candidates must have a Ph.D. or foreign degree equivalent in computer science or closely related field, along with the ability to demonstrate, through their records of accomplishments, promise of future distinction in scholarship and education.

As part of the School of Science at Rensselaer, which is undergoing a broad expansion (http://science.rpi.edu), the Department of Computer Science has 23 tenure and tenure track faculty and excellent undergraduate, Masters and PhD programs involving over 1,000 total students. The department maintains a strong interdisciplinary research program with funding from ARL, AFRL, DHS, DOE, DTRA, NIH and the NSF yielding annual research expenditures in excess of $9 million dollars (USD). These programs are bolstered by several research centers, including: the Cognitive and Immersive Systems Lab (CISL), the Data Science Research Center (DSRC), the Institute for Data Exploration and Applications (IDEA), the Network Science and Engineering Center (NEST), Scientific Computing Research Center (SCOREC), the Tetherless World Constellation (TWC), and the Center for a Digital Society (CDS).

As a part of their start-up package, the successful high performance computing candidate will be given priority access to the “AMOS” supercomputer, x86 cluster, and storage resources at the Center for Computational Innovations (CCI). AMOS is an IBM Blue Gene/Q with 81,920 processors, 80 TB of RAM and generates over 1 PF/s peak performance. This system is the most powerful supercomputer among private U.S. universities. The center routinely executes jobs that scale to the full size of AMOS which has enabled several simulations to be run at full-scale on the largest DOE Blue Gene/Q supercomputers (e.g., Mira and Sequoia). Additionally, the CCI has two Intel/x86 clusters. AMOS and the x86 clusters all share a common 2 petabyte parallel filesystem which runs over an InfiniBand FDR (56 Gbit/sec) network. Over the past 3 years, the CCI has supported over of $60 million dollars (USD) in external funded research projects including 6 NSF CAREER award winners. These projects have produced over 260 journal, conference and workshop publications.

Qualified applicants must submit statements of research and teaching interests and a curriculum vitae including a list of publications to https://application.cs.rpi.edu. Applicants must also arrange for the submission of three letters of reference.

Questions about these positions may be directed to Prof. Chuck Stewart (stewart@cs.rpi.edu), Department Head, or to Prof. Bulent Yener (yener@cs.rpi.edu) Chair of the Faculty Search Committee. Questions about the process may be sent to Ms. Sharon Simmons, Administrative Coordinator (simmos2@cs.rpi.edu). Review of candidates is ongoing and applications will be accepted until the position is filled. Applications received by February 15, 2016 are assured full consideration.

We welcome candidates who will bring diverse intellectual, geographical, gender and ethnic perspectives to Rensselaer’s work and campus communities.


**Saint Louis University, St. Louis, MO**

*College of Arts and Sciences Multiple Faculty Positions*

Saint Louis University, a Catholic, Jesuit institution dedicated to student learning, research, health care, and service, is seeking
Professional Opportunities

applicants for two new faculty positions in Computer Science to support growth at both the bachelor’s and master’s levels.

The first position is a tenure-track Assistant Professor of Computer Science. Applicants must hold a Ph.D in Computer Science or a closely related field and demonstrate strong potential for both research and teaching. Duties include building and maintaining an active research program with national prominence, teaching of both undergraduate and graduate courses, and the mentorship of undergraduate and graduate students. Applicants are particularly welcome who have primary interests in applied areas of computer science, such as systems, networking, and security.

The second position is a non-tenure-track position in Computer Science at the rank of Assistant Professor or Instructor, commensurate with experience, and with long-term opportunity for promotion to higher ranks. Applicants must hold a Master’s in Computer Science or a closely related field to be considered for the rank of Instructor, and a Ph.D in the discipline for the rank of Assistant Professor. Successful applicants will demonstrate enthusiasm for undergraduate education and excellence in the classroom. All areas of specialty are welcome, interest in applied areas of computer science is preferred. Primary job responsibilities include teaching of undergraduate courses, mentorship of undergraduate students, and a contribution to the development of new curricula. Opportunity also exists for the teaching or supervision of master’s students.

Candidates interested in either position must submit a cover letter and CV at http://jobs.slu.edu and must submit supporting materials at http://cs.slu.edu/facultysearch, including a statement of research interests, statement of teaching interests and experiences, and three or more letters of reference. Review of applications for the
tenure-track position will begin on January 15, 2016, and for the non-tenure-track position on February 1, 2016. Both appointments are to begin in August 2016. For additional information, contact Dr. Michael Goldwasser.

Saint Louis University is an Affirmative Action/Equal Opportunity Employer (AA/EOE) and encourages nominations of and applications from women and minorities.

State University of New York at Binghamton

Department of Computer Science

Four Tenure-Track Positions

As part of our continuing growth, the Department of Computer Science in the Thomas J. Watson School of Engineering and Applied Science at Binghamton University (The State University of New York at Binghamton) invites applications for four tenure-track positions as follows beginning in Fall 2016:

1) One Assistant Professor position in the healthcare informatics/healthcare systems area
2) Three other positions, two at the Assistant professor level and one at the Assistant/Associate Professor level. For these 3 positions, we are especially interested in candidates in the following areas: (a) Data Analytics, (b) Operating Systems or Embedded Systems, (c) Machine Learning.

The Department has established graduate and undergraduate programs, including 60 full-time PhD students and 31 Faculty members. Junior faculty have a significantly reduced teaching load for at least the first three years. We are dedicated to the goal of building a diverse and inclusive teaching, research, and working environment. Potential applicants who share this goal, especially underrepresented minorities and women, are strongly encouraged to apply for the position described below. Further details and application information are available at: http://binghamton.interviewexchange.com

For the faculty position in the healthcare informatics/healthcare systems area the Department seeks a research scholar with research that will affiliate with the Binghamton University Transdisciplinary Areas of Excellence Initiative in Healthcare Systems (http://www.binghamton.edu/tae/health-sciences/index.html) respectively. Applications will be reviewed until positions are filled. First consideration will be given to applications received by February 15, 2016.

We are an EE/AA employer.

SUNY at Buffalo

Assistant, Associate and Full Professor Positions

The University at Buffalo Department of Computer Science and Engineering invites candidates to apply for tenured and tenure-track faculty positions beginning in the Fall 2016 semester. We invite candidates from all areas of Computer Science and Engineering, especially Computer Vision and Pattern Recognition, Artificial Intelligence, all aspects of Big Data, including Cyber Security, Cyber Physical Systems (or Internet of Things) and Human Computer Interaction. We are particularly looking for candidates who can operate effectively in a diverse community of students and faculty and share our vision of making all constituents reach their potential.

Computer Science and Engineering Department is housed in a new $75M building, and as a part of School of Engineering and Applied Sciences, the Computer Science and Engineering department offers both BA and BS degrees in Computer Science and a BS in Computer Engineering (accredited by ABET), a combined 5-year BS/MS program, a minor in Computer Science, and two joint programs (BA/MBA and Computational Physics) as well as MS and PhD programs.
Professional Opportunities

The department has 37 tenured/tenure-track faculty, 4 teaching faculty, and approximately 750 undergraduate majors, 470 masters students, and 160 PhD students. Eighteen faculty including 16 junior faculty have been hired since 2010, and we are continuing to expand. Two members of our faculty currently hold key university leadership positions and seven members of our faculty are IEEE and/or ACM Fellows. Our faculty members are actively involved in cutting-edge research and successful interdisciplinary programs and centers devoted to biometrics, bioinformatics, biomedical computing, computational and data science and engineering, document analysis and recognition, high performance computing, information assurance and cyber security, embedded, networked and distributed systems, and sustainable transportation. Our annual research expenditure exceeds 4.6 Millions on average over the last five years.

The State University of New York at Buffalo is New York’s largest and most comprehensive public university, with approximately 20,000 undergraduate students and 10,000 graduate students. One of the most recent investments of the University is the establishment of RENEW, a multidisciplinary institute for Research and Education in eNergy, Environment and Water, which provides CSE faculty and students many opportunities for collaboration.

Minimum Qualifications:

Applicants must have a PhD in computer science or related area by August 2016 and demonstrate potential for excellence in research, teaching, service and mentoring. PhD must be conferred prior to the appointment. Candidates must have an excellent publication record and potential for developing a strong funded research program. Candidates must demonstrate excellence in research, teaching and mentoring.

Applications for this position will only be accepted online. To apply, please visit: https://www.ubjobs.buffalo.edu/applicants/ Central?quickFind=58432

State University of New York at Buffalo
Teaching Assistant Professor/ Lecturer Positions

The State University of New York at Buffalo Department of Computer Science and Engineering invites candidates to apply for non-tenure track lecturer positions beginning in fall 2016. We invite candidates from all areas of Computer Science and Computer Engineering who have a passion for teaching to apply. We are particularly looking for candidates who can operate effectively in a diverse community of students and faculty and share our vision of helping all constituents reach their potential.

Duties include teaching and development of undergraduate Computer Science and Computer Engineering courses (with an emphasis on lower division), advising undergraduate students, as well as participation in department and university governance (service). Contribution to research is encouraged.

Computer Science and Engineering department is housed in a new $75M building, and as a part of the School of Engineering and Applied Sciences, the department offers both BA and BS degrees in Computer Science and a BS in Computer Engineering (accredited by ABET), a combined 5-year BS/MS program, a minor in Computer Science, and two joint programs (BA/MBA and Computational Physics) as well as MS and PhD programs.

The department has 37 tenure/tenure-track faculty, 4 teaching faculty, and approximately 750 undergraduate majors, 470 masters students, and 160 PhD students. Eighteen faculty including 16 junior faculty have been hired since 2010 and we are continuing to expand. Two members of the faculty currently hold key leadership positions and seven members are IEEE and/or ACM fellows. Our faculty members are involved in cutting-edge research and successful interdisciplinary programs and centers devoted to biometrics, bioinformatics, biomedical computing, computational and data science and engineering, document analysis and recognition, high performance computer, information assurance and cyber security, embedded networked and distributed systems, and sustainable transportation. Our annual research expenditure exceeds 4.6M on average over the past five years.

The State University of New York at Buffalo is New York’s largest and most comprehensive public university, with approximately 20,000 undergraduate students and 10,000 graduate students. One of the most recent investments of the University is the establishment of RENEW, a multidisciplinary institute for Research and Education in eNergy, Environment and Water, which provides CSE faculty and students many opportunities for collaboration.

Minimum Qualifications:

Ideally, applicants should have a PhD degree in Computer Science, Computer Engineering, or a related field by August 2016. Exceptional applicants with a MS degree will also be considered. The ability to teach at all levels of the undergraduate curriculum is essential, as is potential for excellence in teaching, mentoring, service, and research. A background in Computer Science and Computer Engineering Education, a commitment to K-12 outreach, and addressing the recruitment and retention of underrepresented students are definite assets.

Applications for this position will only be accepted online. To apply, please visit: https://www.ubjobs.buffalo.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId=209438
Professional Opportunities

Texas State University

Department of Computer Science

Faculty Position

Applications are invited for a tenure-track Assistant Professor position in any field of computer science to start on September 1, 2016. Job duties include conducting research that results in refereed publications and external funding, teaching effectively at the graduate and undergraduate levels, supervising student research, and serving at the department, college, university, and professional levels.

Qualifications

Required. Applicants must have completed all requirements for a Ph.D. in computer science, computer engineering, or closely related field by the start of employment.

Preferred. Applicants should have a demonstrated record of excellence in research, potential for excellence in obtaining external funding, in teaching, and in service, and effective oral and written communication.

Application Procedure

Review of applications will begin on March 1, 2016 and will continue until the position is filled. Applications received by the review date will be given full consideration. On-line submission of all application materials is required. Please visit www.cs.txstate.edu/employment/faculty/ for additional information and to apply. All required documents must be uploaded, including a cover letter, a curriculum vitae, a statement of research interests, a separate statement of teaching, a list of at least three references with email and postal addresses plus telephone numbers, and the university’s Faculty Application form.

Texas State University

Texas State University is a doctoral-granting Emerging Research University located in the burgeoning Austin-San Antonio corridor, the largest campus in The Texas State University System, and among the largest in the state. Texas State’s 37,979 students choose from 97 undergraduate, 88 master’s and 12 doctoral programs offered by these colleges: Applied Arts, McCoy College of Business Administration, Education, Fine Arts and Communication, Health Professions, Liberal Arts, Science and Engineering. The Graduate College, and the University College. With a diverse campus community including 48% of the student body from ethnic minorities, Texas State is one of the top 13 producers of Hispanic baccalaureate graduates in the nation. In fall 2015, there were 1,300 full-time faculty and 2,000 full-time staff. Research and creative activities have led to growing success in attracting external support. For FY 2015, Texas State had an annual operating budget of over $600 million. Texas State’s Research and Development expenditures for FY 2015 were more than $47 million. The Alkek Library has more than 2.6 million titles in its collection. Additional information about Texas State and its nationally recognized academic programs is available at www.txstate.edu.

Personnel Policies

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

Texas State University is a tobacco-free campus. Smoking and the use of any tobacco product is not allowed anywhere on Texas State property or in university owned or leased vehicles.

The position may require teaching on the main campus and on the Round Rock campus.

Texas State University will not discriminate against any person in employment or exclude any person from participating in or receiving the benefits of any of its activities or programs on any basis prohibited by law, including race, color, age, national origin, religion, sex, disability, veterans’ status, sexual orientation, gender identity, or gender expression. Equal employment opportunities shall include personnel transactions of recruitment, employment, training, upgrading, promotion, demotion, termination, and salary. Texas State is committed to increasing the number of women and minorities in faculty and senior administrative positions. Texas State University is a member of The Texas State University System.

University of California, Merced

Assistant Professor (Tenure-Track) in Electrical Engineering and Computer Science

The University of California is creating a dynamic new university campus and campus community in Merced, California, which opened in September 2005 as the tenth campus of the University of California and the first American research university built in the 21st century. In keeping with the mission of the University to provide teaching, research and public service of the highest quality, UC Merced will be providing new educational opportunities at the undergraduate, masters and doctoral levels through three academic schools Engineering; Natural Sciences, and Social Sciences, Humanities and the Arts. The School of Engineering invites applications for one position at the Assistant Professor (tenure-track) level in Electrical Engineering and Computer Science (EECS). This is a unique opportunity to join a growing faculty and become part of a dynamic, highly collaborative research environment.

We seek outstanding applicants in the area of the Internet of Things (IoT). We also welcome applications from outstanding applicants in other research areas that can strengthen and complement the core research areas already addressed by the EECS group at UC Merced. Candidates in the IoT area will have demonstrated research expertise and teaching experience in at least one of the IoT domains broadly
Professional Opportunities

with a strong institutional commitment to the achievement of diversity amount its faculty, students and staff. The University is supportive of dual career couples.

University of Central Florida, Orlando, Florida

To be determined based on the applicant’s academic area of training, anticipated to be within the College of Engineering and Computer Science.

Assistant Professor, Digital Forensics

The National Center for Forensic Science (NCFS) at the University of Central Florida (UCF) is seeking an Assistant Professor specializing in Digital Forensics to begin summer or fall of 2016. The nine-month, tenure-track Assistant Professor will be jointly hired by the NCFS and a tenure home department to be determined based on the applicant’s academic area of training. The home department is anticipated to be within the College of Engineering and Computer Science. The successful candidate will contribute to teaching in the undergraduate and graduate programs in both the tenure home department and the UCF Digital Forensic curriculum and is expected to develop an externally-funded, nationally-competitive research program. A competitive startup package can be expected. The NCFS has historically been closely aligned with the College of Engineering and Computer Science, which offers a M.S. in Digital Forensics.

A Ph.D. in an appropriate discipline from an accredited institution by the start of the appointment period is required (the doctoral degree is expected to be awarded by the hire date). Preference will be given to those demonstrating a strong interest in digital forensics and a willingness to teach and conduct research in digital forensics and forensic science.

The University of Central Florida, the nation’s second-largest university with more than 65,000 students, has grown in size, quality, diversity, and reputation in its first 50 years. Today, the university offers more than 200 degree programs at its main campus in Orlando and more than a dozen other locations. UCF is an economic engine attracting and supporting industries vital to the region’s future while providing students with real-world experiences that help them succeed after graduation. For more information, visit http://ucf.edu.

UCF is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

Application Instructions: Applicants must apply online at https://www.jobswithucf.com/postings/44303 and upload the following at the time of application: a letter of application, curriculum vita, description of research plan, teaching philosophy and interest, the names and contact information of three professional references, and a statement of diversity. Applications must be submitted via the website https://aprecruit.ucmerced.edu/apply/JPF00283 and must include: 1) a cover letter, 2) curriculum vitae, 3) statement of research, 4) statement of teaching, 5) statement of diversity, and 6) three letters of reference submitted online. After an application is submitted, the letters of reference should be electronically uploaded by the letter writers (instructions will be provided by the application system).

The University of California, Merced is an equal opportunity/affirmative action employer...
Professional Opportunities

the University of the District of Columbia seeks applications for two tenure-track positions at the levels of Assistant and/or Associate Professor beginning in August 2016. We welcome all candidates in all areas of Computer Science and Information Technology to apply. Candidates must have an earned doctorate in Computer Science, Information Technology or closely related field and a strong record of teaching, or associate research, and scholarly activities commensurate with appointment at the rank of assistant professor. We are particularly interested in candidates with research experiences in the following areas: robotics, cyber-security, artificial intelligence, networks, mobile computing, cloud computing, computer vision, or operating systems.

The successful candidate must have exceptional interpersonal communication and management skills necessary to promote programs and to sustain strong student enrollment. Candidates should have a strong commitment to undergraduate and graduate teaching. Demonstrated knowledge and experience with ABET accreditation and with the Computing Accreditation Commission of ABET in particular is preferred. Experience with budget development is also preferred but not required.

Faculty duties include teaching undergraduate and graduate students, conducting high-quality research by collaborating closely with the department’s established teams, participating in and developing externally funded research projects, and performing academic duties, university services, and professional services.

The University of the District of Columbia is a comprehensive urban land-grant institution and is classified as a Historically Black University.

Assistant Professor (Computer Engineering), position number 0070286, University of Hawai‘i at Mānoa (UHM), College of Engineering, Department of Electrical Engineering, invites applications for a full-time, tenure track, faculty position, to begin approximately August 1, 2016 or as soon thereafter as possible.

The University of Hawai‘i is a Carnegie doctoral/research extensive university with a strong emphasis on research and graduate education. The Department offers the B.S., M.S., and Ph.D. degrees in electrical engineering and the B.S. degree in computer engineering. For more information on the Department please visit our website at http://www.ee.hawaii.edu

The UHM College of Engineering is supporting the UH Academy for Creative Media (ACM) System by establishing a Multimedia, Arts, and Technology emphasis fusing emerging media, engineering, and digital arts and entertainment research, practice, production, and theory. The aim is to push the frontiers of developing and integrating new technology in media to create new forms of art and entertainment. While Hawai‘i has a strong cultural history in the arts and traditionally served as a site location for many television and movie productions, its has recently become a focal point for generation of novel enterprises in digital art and entertainment aided in part by multimedia sharing software such as YouTube.

Minimum qualifications: An earned Ph.D. (ABD will be considered) in Computer Engineering, Electrical Engineering, Computer Science, or a closely related discipline is required with a strong background in engineering and expertise in a computer engineering research area. Preferred sub-disciplines include but not limited to visualization, computer graphics and animation, virtual reality, video game development, high performance computing, multimedia engineering that involves multimedia software systems, high-speed networking, digital signal and image processing, human-computer interaction, and embedded systems for real-time multimedia. Applicants must show a strong commitment to teaching excellence and mentoring at the undergraduate and graduate levels, conducting research, and publishing scholarly materials.

To apply: Applicants should follow the instructions at the following website to electronically submit their materials http://www4.eng.hawaii.edu/apply

Continuous recruitment: Review of applications will begin March 15, 2016, and will continue until the position is filled.
Professional Opportunities

College and University. It is the only public university in the District of Columbia, the U.S. Capital. The School offers ABET-accredited BS degree programs in Computer Science and also in Civil, Electrical and Mechanical Engineering.

Applicants should submit a CV with three references (names and contact information) and teaching & research statement. All applicants should submit required materials, in electronic formats through UDC website http://udc.applicantstack.com/x/detail/a2hbyxh5nqtq Reviews will continue until position is filled.

The University of the District of Columbia is an Equal Opportunity/ Affirmative Action Employer.

University of Houston

Postdoctoral fellowships available in biomedical image processing and segmentation

The STIM Laboratory is a new research group in the Department of Electrical and Computer Engineering at the University of Houston. We have open positions for postdoctoral fellows interested in image processing and visualization of large (multi-terabyte) data sets.

This work will focus on developing new methods for disease diagnosis, with a particular focus on cancer imaging. Funding is available to support fellowships for up to four years. http://stim.ee.uh.edu/personnel/available-positions

The University of Houston is classified as a “Tier One” (Carnegie RU/VH) research university, and is one of four major research universities in Texas. We are located in central Houston, which is the fourth largest city in the United States and a central player in both energy and biomedical research. Houston is currently the top city in the U.S. for job creation, and is home to more than 20 Fortune 500 companies. We have a strong industrial and academic research focus, including both NASA and the Texas Medical Center, which is the largest medical center in the world.

Qualifications:

- Completed a doctoral degree in computer engineering, computer science, or related field, with research experience in visualization and image processing (including data mining, visualization, and machine learning).
- Demonstrate a strong potential for successful interdisciplinary research and clinical collaborations.
- Willingness to provide support to both undergraduate and graduate students through mentoring and collaboration.

The University of Houston is an Equal Opportunity / Affirmative Action institution. Minorities, women, veterans and persons with disabilities are encouraged to apply. Additionally, the University prohibits discrimination in employment on the basis of sexual orientation, gender identity or gender expression.

Application:

Interested scientists can email stim@uh.edu for more information or apply at: https://jobs.uh.edu/postings/28767

University of Illinois at Chicago

Department of Computer Science

Computer Security Faculty Positions

The University of Illinois at Chicago Computer Science Department invites applications for one or more tenure-track positions in cybersecurity, broadly defined, at the rank of Assistant Professor. Exceptional candidates at other ranks may also be considered. Candidates in related areas such as programming languages and compilers, computer systems and software engineering whose research has a strong connection to cybersecurity are also encouraged to apply.

The University of Illinois at Chicago (UIC) is ranked fourth among US Universities under 50 years old. The Computer Science department has recently grown to 29 tenure-track faculty, and offers BS, MS, and PhD degrees. Our faculty includes 11 NSF CAREER award recipients. UIC is an excellent place for interdisciplinary work—with the largest medical school in the country and faculty engaged in several cross-departmental collaborations with health sciences, social sciences and humanities, urban planning, and the business school.

Our faculty have a broad range of research interests in fundamental and practical aspects of cybersecurity. Key research areas include the security of cyber-physical systems, web and mobile applications, operating systems, applications and network security, cryptography and protocols, online fraud detection, privacy and information flow including privacy-preserving data management and mining, and technology policy. Our research is funded by grants from NSF, DARPA, AFOSR, ONR, and DHS and our annual research expenditures for cybersecurity are at $1.5M. Our research program is complimented by a strong educational program with federally funded fellowships at the BS, MS, and PhD levels, including one of the country’s three IGERT programs in cybersecurity.

Chicago epitomizes the modern, livable, vibrant city. Located on the shore of Lake Michigan, it offers an outstanding array of cultural and culinary experiences. As the birthplace of the modern skyscraper, Chicago boasts one of the world’s tallest and densest skylines, combined with an 8100-acre park system and extensive public transit and biking networks. Its airport provides daily non-stop flight service to about 150 US cities and 50 international destinations. Yet the cost of living—whether in a 99th floor condominium downtown or on a tree-lined boulevard in one of the nation’s finest school districts—is surprisingly low.
Professional Opportunities

Applications must be submitted at https://jobs.uic.edu/. Please include a CV, teaching and research statements, and names and addresses of at least three references in the online application. For full consideration, applications must be received by Jan 3rd, 2016. Applicants needing additional information may contact the Faculty Search Chair for Security at security-search@cs.uic.edu.

The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply.

University of Illinois at Chicago

Department of Computer Science

Data Science/Human-Computer Interaction Faculty

The Computer Science Department at the University of Illinois at Chicago (UIC) invites applications for multiple full-time tenure-track positions at the rank of Assistant Professor (exceptional senior level candidates will also be considered). All candidates must have a doctorate in Computer Science or a related field by the starting date of the appointment. Candidates will be expected to conduct world class research, collaborate with faculty from a wide range of disciplines, and teach effectively at the undergraduate and graduate levels. Senior candidates must have an outstanding research record, a strong record of funded research, demonstrated leadership in collaborative research, and an excellent teaching record at the undergraduate and graduate level.

This search seeks candidates in the following two areas. Please clearly indicate for which one of those areas you wish to be considered. Exceptional candidates from closely related areas may also be considered.

Data Science. Research spanning all aspects of scalable information retrieval, data management, and data integration are of particular interest.

Human-Computer Interaction. Research spanning all areas of humans interacting with computers, ubiquitous computing, wearable technology, computer-supported cooperative work (CSCW), and crowdsourcing.

The University of Illinois at Chicago (UIC) ranks is ranked 4th best U.S. University under 50 years old by Times Higher Education. The Computer Science department has 29 tenure-track faculty and offers BS, MS and PhD degrees. Our faculty includes 11 NSF CAREER award recipients. UIC has an advanced networking infrastructure in place for data-intensive scientific research that is well-connected regionally, nationally and internationally.

Chicago epitomizes the modern, livable, vibrant city. Its airport is the second busiest in the world, with frequent non-stop flights to virtually anywhere. Yet the cost of living, whether in an 88th floor condominium downtown or on a tree-lined street in one of the nation’s finest school districts, is surprisingly low.

Applications must be submitted at https://jobs.uic.edu/ for the Data Science/Human-Computer Interaction search. Please include a curriculum vitae, teaching and research statements, and names and addresses of at least three references in the online application. Applicants needing additional information may contact the Faculty Search Chair at DS_HCI-search@cs.uic.edu. For fullest consideration, apply by January 4, 2016, but applications will be accepted until the positions are filled. The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply.

The University of Massachusetts Lowell (UMass Lowell) invites applications for Chair of the Department of Computer Science to lead and grow an established department. The position may begin on July 1, 2016 or a later time. The applicants should qualify for the position of tenured full professor (exceptional candidates who qualify for the position of tenured associate professor may also be considered). We seek candidates who have demonstrated excellence in teaching and research, recognized stature in the computer science community, and a strong commitment to undergraduate and graduate education.

Applications received by February 15, 2016 will receive full consideration and the position will remain open until filled. Initial review of applications will begin immediately. Women and under-represented minorities are strongly encouraged to apply.

Applicants must have a doctorate in Computer Science or a closely related field, evidence of outstanding research and academic achievements with a strong reputation in the research and professional community, and a demonstrated ability to teach effectively at both graduate and undergraduate levels.

Must be willing and able to travel

How to apply: Interested applicants should apply online at https://jobs.uml.edu/applicants/Central?quickFind=54832.
Professional Opportunities

The University of Mississippi

Assistant Professor Position

The Department of Computer and Information Science at the University of Mississippi invites applications for a tenure-track Assistant Professor position.

An applicant must hold a PhD or equivalent in computer science or a closely related field by August 15, 2016. An applicant must have the ability to teach both graduate and undergraduate students, conduct research in major areas of computer and information science, and supervise MS and PhD students. An applicant must provide evidence of research potential, effective communication skills, and a broad background in computing.

The Department has an ABET/CAC-accredited undergraduate program and MS and PhD programs. See the website http://www.cs.olemiss.edu for more information about the Department.

The University is located in Oxford, one of America’s top-ranked college towns. Oxford has a wonderful small-town atmosphere with affordable housing and excellent schools.

Individuals may apply online at http://jobs.olemiss.edu. The applicant is asked to supply a cover letter, curriculum vitae, research and teaching statements, and contact information for four references. Review of applications will begin immediately and continue until the position is filled or an adequate applicant pool is reached.

The University of Mississippi is an EOE/AA/Minorities/Females/Vet/Disability/Sexual Orientation/Gender Identity/Title VI/Title VII/Title IX/504/ADA/ADEA employer.

University of New Hampshire, Durham, New Hampshire, USA

Department of Computer Science

Two Tenure-Track Assistant Professor Positions

The Department of Computer Science at the University of New Hampshire (UNH) invites applications for two full-time tenure-track positions to begin August 2016. Exceptionally qualified candidates may be considered for appointment at a higher rank for one position. Candidates should have a focus in Cybersecurity, Data Science / Machine Learning / Robotics, or Data Visualization / Graphics / Human-Computer Interaction (all broadly defined). A Ph.D. (or equivalent degree) in computer science or a closely related discipline is required by the time of appointment.

Candidates should have a record of excellent research and a clear potential for excellent teaching. The teaching load will be one course per semester for the first three years to give the new hire ample time to mentor graduate students and grow a successful funded research program.

The Department offers B.S., M.S., and Ph.D. degrees and currently has 16 faculty, 290 undergraduate majors, and 70 graduate students. UNH is a land-, sea-, and space-grant institution and serves as the flagship public research institution of New Hampshire. It is located in the vibrant seacoast area of the state, with easy access to the White Mountains and to Boston. See www.cs.unh.edu for more information about UNH and the department.

Submit a cover letter, brief statement of teaching experience and interests, complete CV, and contact information for three professional references at http://academicjobsonline.com. Evaluation of applications will commence in late October 2015. Applications will be reviewed as they are received, until the position is filled.

UNH is an Equal Opportunity, Equal Access, Affirmative Action institution and is a recent recipient of a National Science Foundation ADVANCE award to promote hiring and advancement of women in science and engineering. Application by members of all underrepresented groups is encouraged.

Apply Here: https://academicjobsonline.org/ajo/jobs/6590

University of New Hampshire, Durham, New Hampshire, USA

Department of Computer Science

Lecturer in Computer Science

The Department of Computer and Information Science at the University of New Hampshire (UNH) invites applications for two full-time, benefits-eligible, non-tenure-track Lecturer positions to begin January 7, 2016. An M.S. or PhD in a computer-related discipline is desirable and demonstrated strength in undergraduate teaching is essential.

There are two positions available that together will be responsible for teaching undergraduate computer science courses and multiple sections of an existing course for non-majors that introduces students to Internet technologies and publishing online using HTML, blogs, and discussion forums. The distribution of these responsibilities will depend on the interests and expertise of the successful candidates.

Lecturers are a valued, integral part of our faculty with voting rights in departmental governance. As such, these positions also encompass many of the key facets of our undergraduate program, such as advising, curriculum development and supervision of capstone experiences. After a probationary year, the position will be under a renewable three-year contract.

The department offers B.S., M.S., and Ph.D. degrees and currently has 15 full-time permanent faculty. 297 undergraduate majors and 66 graduate students. UNH is a land-, sea-, and space-grant institution and serves as the flagship public research institution of New Hampshire. It is located in the vibrant seacoast area of the state, with easy access to the White Mountains and to Boston. See www.cs.unh.edu for more information about UNH and the department.

Submit a cover letter, brief statement of teaching experience and interests, complete CV, and contact information for three professional references at http://academicjobsonline.com. Evaluation of applications will commence in late October 2015. Applications will be reviewed as they are received, until the position is filled.

UNH is an Equal Opportunity, Equal Access, Affirmative Action institution and is a recent recipient of a National Science Foundation ADVANCE award to promote hiring and advancement of women in science and engineering. Application by members of all underrepresented groups is encouraged.

Apply Here: https://academicjobsonline.org/ajo/jobs/6590
Professional Opportunities

award to promote hiring and advancement of women in science and engineering. We especially encourage applications by members of underrepresented groups.

To apply, submit a cover letter, a complete CV, brief research and teaching statements, sample publications, and contact information for at least three references at https://academicjobsonline.org/ajo/jobs/6601

Applications will be reviewed as they are received until the position is filled, with those received by January 3, 2016 ensured of full consideration.

University of Northern Iowa, Cedar Falls, Iowa

Department of Computer Science
Assistant Professor of Computer Science

The department invites applications for a tenure-track assistant professor position to begin August 2016. Applicants must hold a Ph.D. in Computer Science or a closely-related discipline. The department seeks candidates able to teach and conduct research in software engineering, as well as to participate broadly in the CS curriculum.

Detailed information about the position and the department are available at http://www.cs.uni.edu/. To apply, visit http://jobs.uni.edu/. Applications received by January 15, 2016 will be given full consideration. Pre-employment background checks are required.

UNI actively seeks to enhance diversity and is an Equal Opportunity/Affirmative Action employer. The University encourages applications from persons of color, women, individuals living with disabilities, and protected veterans. All qualified applicants will receive consideration for employment without regard to age, color, creed, disability, gender identity, national origin, race, religion, sex, sexual orientation, protected veteran status, or any other basis protected by federal and/or state law.

The University of Richmond, Richmond, VA

Department of Mathematics and Computer Science
Assistant Professor of Computer Science

The University of Richmond invites applications for a tenure-track Assistant Professor position in Computer Science to begin August 2016.

For additional information and to apply, please visit: https://richmond.csod.com/ats/careersite/JobDetails.aspx?id=690

The University of the South

Visiting Assistant Professor Position

The Department of Mathematics and Computer Science at The University of the South invites applications for a two-year, full-time Visiting Assistant Professor position in Computer Science to begin August 2016.

Responsibilities include teaching three courses per semester in both core and elective subjects.

An earned Ph.D. (ABD acceptable) in Computer Science or closely related field is required. Preference will be given to candidates with strong communication skills and experience in undergraduate teaching.

A complete application consists of a detailed letter of application, curriculum vitae, statement of teaching philosophy, undergraduate and graduate transcripts (unofficial accepted), and at least two letters of reference. Applications may be submitted through the applicant portal at jobs.sewanee.edu. Applications received by February 15, 2016 will receive full consideration.

The University of Texas at Arlington

Department of Computer Science and Engineering
Multiple Tenured and Tenure-Track Faculty Positions

The Department of Computer Science and Engineering (CSE) at The University of Texas at Arlington invites applications for several tenure-track positions. Exceptionally qualified and more senior candidates may also be considered for tenure positions.

The Positions

A number of outstanding faculty members in line with the University’s strategic hiring in following areas with open rank is sought: (a) data analytics/big data; (b) data integrity and protection, and (c) high performance/cloud computing/visualization. The related research areas of high performance computing, scalable storage, distributed systems, cyber-physical systems, information security and privacy, Internet of Things, information visualization, graphics, adaptive robotics, machine learning and data mining, and bioinformatics are especially desirable. Outstanding candidates in other related areas will also be considered. The positions will be in the College of Engineering (COE) with primary appointment in the Computer Science and Engineering a possible joint appointment in other departments depending on the qualifications of the candidate.

Minimum Qualifications

Applicants must hold an earned Ph.D. in computer science, computer engineering, or a closely related discipline, and must demonstrate superior research potential in the areas mentioned above. The candidates selected for the positions will be expected to develop a substantial externally funded research program that supports graduate students teach graduate and undergraduate courses, and provide service to the University and profession.
Professional Opportunities

**The University, College and Department**

The University of Texas at Arlington is a doctoral, research-extensive university with a current enrollment of more than 37,000 students in campus-based programs and is part of The University of Texas System. The University is located in Arlington, Texas which is centrally located in the Dallas/Fort Worth Metroplex, the fourth largest urban area in the nation. The detailed information about the COE and the strategic hiring can be found at http://www.uta.edu/engineering/about/faculty-search/index.php

The information about the CSE department can be found at http://cse.uta.edu/.

**Application Instructions**

Candidates must submit a cover letter, CV, a statement of research and teaching interests, and full contact information of at least three references. To apply go to http://www.uta.edu/uta/faculty-opportunities/index.php. Screening will begin immediately upon receipt of a completed application. Applications will be accepted until the positions are filled.

As an equal employment opportunity and affirmative action employer, it is the policy of The University of Texas at Arlington to promote and ensure equal employment opportunity for all individuals without regard to race, color, religion, sex, national origin, age, sexual orientation, gender identity, disability, or veteran status. The use of tobacco products is prohibited on UTA properties. A criminal background check will be conducted on finalists.

**University of Vermont**

**College of Engineering and Mathematical Sciences**

**Lecturer Position**

We invite applications for a full-time lecturer in Computer Science, for a Fall 2016 start date. Qualifications include an MS or PhD in computer science or related field.


UVM is an EO/EA/AA employer and conducts background checks on all final candidates.

**Utah State University, Logan, Utah**

**Department of Computer Science**

**Assistant Professor**

**Position Description**

Applications are invited for two open faculty positions, starting Fall Semester 2016, at the Assistant Professor level in the Computer Science Department at Utah State University (USU). Applicants must have completed a Ph.D. in Computer Science by the time of appointment. Applicants should have a strong record of prior research, show significant potential for attracting external research funding, and have excellent communication skills. The department is interested in strengthening its focus in Computer Security, and Data Science, but applicants in other areas may also apply.

We will begin to review candidates starting January 25, 2015. USU is a Carnegie Research Doctoral extensive University with over 20,000 students.

**Application Instructions**

Please use the following link to apply for the job.

http://usu.hiretouch.com/job-details?jobID=1050

You will be expected to provide the following.

1. A letter of interest
2. A current curriculum vita (statements of research experience and interests, proposals written and funded, publications, and teaching experience)
3. The names and email addresses of three references. Your references will be sent an email from USU, asking them to upload a letter of recommendation on your behalf.

**Washington State University**

**Multiple Faculty Positions**

The School of Electrical Engineering and Computer Science (EECS) at Washington State University (WSU) in Pullman, WA invites applications for several full-time faculty positions in at our Pullman, Bremerton and Everett campuses.

- Assistant or Associate or Full Professor in Data Science in Pullman (3 positions)
- Assistant or Associate or Full Professor in Machine Learning in Pullman
- Clinical Assistant or Associate or Full Professor in Electrical Engineering in Bremerton (2 positions)
- Clinical Assistant or Associate or Full Professor in Software Engineering in Everett

Please go to https://www.wsujobs.com/postings/search then search Department: Electrical Engineering and Computer Science for specific position requirements and job duty details.
Professional Opportunities

Applications should include a cover letter indicating the position area and level, and summarizing qualifications. Applications should also include research and teaching statements, a curriculum vitae, and three letters of reference. It is anticipated that the successful candidate will begin the appointment on August 16, 2016.

**Williams College, Williamstown, MA**

**Computer Science Department**

**Visiting Faculty Position**

The Department of Computer Science at Williams College invites applications for a two-year visiting faculty position beginning in the fall of 2016. Candidates should have a commitment to excellence in teaching and should have a Ph.D. or made significant progress towards completing a Ph.D. in computer science or a closely related discipline by September, 2016. The successful candidate will teach a total of three courses during the academic year, along with associated labs.

This position is open to all areas of computer science. Visiting faculty will join eight current members of the department in supporting a thriving and diverse undergraduate computer science major.

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.

We welcome applications from members of groups traditionally underrepresented in the field, and applicants are encouraged to state in their cover letter how they will enhance the diversity of offerings and educational experiences if hired. Applications should also include a curriculum vita, a teaching statement, 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](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 January 25 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](http://dean-faculty.williams.edu/prospective-faculty/background-check-policy).

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website ([http://www.williams.edu](http://www.williams.edu)). 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.