Computing Research News

Computing Research Association, Celebrating 40 Years of Service to the Computing Research Community

January 2013
Vol. 25 / No. 1

Important Dates

Computer Science Postdocs — Best Practices Guide

Announcements

Expanding the Pipeline: Latinas in Computing Find Their Sweet Spot

Taulbee In-Depth:
Employment of New PhDs Outside North America

The Computing Community Consortium:
A Force Multiplier for CRA

NSF CISE CAREER Proposal Writing Workshop

Exploring the Baccalaureate Origin of Domestic Ph.D. Students in Computing Fields

Stuart Zweben, CRA Survey Chair, Receives the Linton E. Grinter Distinguished Service Award

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**Computer Science Postdocs — Best Practices Guide**

*By Anita Jones, University of Virginia, and Erwin Gianchandani, CRA/CCC (now at NSF)*

The Computing Research Association’s (CRA) Board of Directors has approved a Best Practices Guide, providing guidance to graduate students, postdocs, advisors and mentors, and departments and institutions on how to have a positive postdoctoral experience within computer science and engineering. We encourage our colleagues throughout the community to take a look at the document — the latest in a series of white papers about the recent increase in postdocs in the field — and adopt these Best Practices. Visit http://cra.org/resources/bp-memos/ to view the guide.

Announcements

We are sad to report that David Notkin has resigned from the CRA Board due to health reasons. The CRA family would like to thank David Notkin for his contributions during his more than 7 years on the CRA Board.

Congratulations to Tracy Camp, CRA-W co-chair, and Rob Schreiber, CRA Board Member, (SIAM representative) for being named ACM Fellows in recognition of their contributions to computing.

**Check Your Inbox!**
In order to bring you timely information delivered directly to your inbox, CRN will now be published 10 times a year.
Expanding the Pipeline: Latinas in Computing Find Their Sweet Spot

By Patty Lopez
Intel Corporation and Gilda Garretón, Oracle Labs

The Latinas in Computing (LiC) community was established after a Birds of a Feather session at the 2006 Grace Hopper Celebration of Women in Computing Conference (GHC). A group of energized Latinas from industry, government labs and academia met to discuss the strengths of the community and the misconceptions affecting us. We discussed different aspects of being a double minority, including the self-limiting beliefs that interfere with our ability to excel and establish ourselves as leaders in the computing community. With the help of the Anita Borg Institute, a listserv was created within the Systers community, and shortly thereafter, LiC created groups on Facebook and LinkedIn as well as a website that includes events, resources, a Twitter feed, and membership information with affiliations. LiC’s primary goal is to promote the professional growth of Latinas and to increase their representation in the computing community.

Latinas in Computing continues to thrive as a grassroots, self-funded organization, and actively participates in several national conferences and organizations (listed below). The Latinas in Computing founding members are:

- Dr. Cecilia Aragon – University of Washington
- Dr. Dilma da Silva – Qualcomm
- Dr. Claris Castillo – IBM Research
- Dr. Gilda Garretón (chair) – Oracle Labs
- Dr. Patty Lopez (vice-chair) – Intel Corporation
- Dr. Raquel Romano – Google

Latinas in Computing’s conference and board service includes the GHC organizing committee, the SACNAS program committee, the boards of CRA-W, Anita Borg, CAHSI, and CDC. Many are active in their local communities. LiC has presented a Speed Mentoring Workshop at GHC for Latinas and other underrepresented groups the past four years, and it has been the highest rated session three years straight. LiC was honored by the CAMINOS Pathways Learning Center, a San Francisco Bay Area non-profit, in 2009. Several Latinas have been recognized for their achievements and service, including:

- Dr. Gilda Garretón, 2011 HENAAC Luminaries Award
- Dr. Mary Fernández, 2011 HENAAC Outstanding Technical Achievement - Industry
- Dr. Dilma da Silva, 2011 ACM Distinguished Scientist
- Dr. Ann Quiroz Gates, 2010 Anita Borg Social Impact Award Recipient (University of Texas at El Paso), and Patty Lopez
- Dr. Nayda Santiago, 2008 HENAAC Education Award
- Dr. Monica Martinez-Canales, 2007 HENAAC Luminaries Award
Latinas in Computing’s senior members are proud of the progress made by early career members of our community. By creating an inclusive and supporting environment, our next generation of Latinas have a better platform to excel and are quickly demonstrating leadership and technical prowess. Among others, Dr. Rosa Enciso (Microsoft) and Dr. Mirkeya Capellan (Sogeti USA) deserve recognition for leading LiC efforts for the Women of Underrepresented Groups Track for the 2012 Grace Hopper Conference.

Active in supporting K-12, undergraduate, graduate, and professional computing pipelines, LiC has worked with the Anita Borg Institute to identify sponsors for student travel scholarships to attend GHC, and has hosted receptions and luncheons the past five years to connect with and engage Latina GHC attendees. LiC has signed a Memorandum of Understanding with the Computing Alliance of Hispanic Serving Institutions (CAHSI), an alliance led by Principal Investigator and Founder, Dr. Ann Gates, and with MentorNet, with support from Dr. Mary Fernandez, Chair of the MentorNet Board. In collaboration with former MentorNet CEO Carol Muller, a mentoring portal for Latinas was created in 2007. The Affinity Research Group (ARG) model established by Gates et al. engages and develops undergraduate students in research with the goal of extending research experiences to a broader range of students; as a result, more undergraduates are likely to pursue a graduate education. Dr. Gates also directs the NSF-funded CREST Cyber-ShARE Center of Excellence at UTEP, whose goals are to conduct research in collaborative cyber infrastructure and develop a STEM workforce capable of working in cooperative interdisciplinary teams. Cyber-ShARE involves over 25 students and ten faculty/professional staff from computer science, computational mathematics, education, geosciences, and environmental science. Resources shared through the Center include such things as the visualization laboratory, scientific data, results, products, and expertise. This work allows computing students to explore interdisciplinary paths that will be critical for technology careers in the 21st century. These relationships strengthen the undergraduate and graduate computing pipelines.

Connecting the graduate pipeline to academia, the Paving the Road to Professorship for Female Students (Femprof) program at the University of Puerto Rico Mayaguez was developed by Dr. Nestor Rodriguez, Dr. Omayra Ducoudray, and Dr. Nayda Santiago, and have been joined by Dr. Lizardabel Morales-Tirado (the latter two are senior LiC members). Femprof seeks to increase the number of females in computing who complete the PhD and become professors, and has adopted an approach where career, empowerment, and research workshops are used along with mentoring to increase the likelihood of females of going into graduate school and into successful tenure track faculty roles in academia. In addition to maintaining their technical conference and research work, several LiC members also work with the following organizations to support outreach to K-12, academia, and women and minorities exploring research careers, delivering over one hundred keynotes, panels, workshops, and presentations:

1. New Mexico State University’s Young Women in Computing program (Dr. Enrico Pontelli, PI), which has directly impacted over 5000 middle school, high school, and college students (YWIC)
2. Committee on the Status of Women in Computing Research (CRA-W)
3. CAHSI Conference
4. Grace Hopper Celebration of Women in Computing Conference (GHC)
5. Coalition to Diversify Computing (CDC)
6. El Alliance
7. Anita Borg Institute (ABI)
8. Regional Celebrations of Women in Computing Conference (MINK WiC, RMCWIC, NMWCIC)
9. Society for the Advancement of Chicanos and Native Americans in Science Conference (SACNAS)
10. The Society of Hispanic Professional Engineers Conference (SHPE)
11. Tapia Celebration of Diversity in Computing (Tapia)
12. National Center for Minorities and People with Disabilities in IT (CMD-IT)
13. National Center for Women and Information Technology (NCWIT), serving on K-12, Academic, and Workforce Alliance project teams

Collectively, these programs have been highly effective in increasing the number and success of women and minorities in computing, several were originally funded by the National Science
Foundation’s Broadening Participation in Computing Program (see “Telling the Stories of the BPC Alliances: How One NSF Program is Changing the Face of Computing”, by Chubin and Johnson, 2010 and “Broadening Participation – Why We Need an ACM Special Interest Group for Broadening Participation”, by Dahlberg, CACM 12/2012). From 1996-2005, NSF’s 2005 Survey of Earned Doctorates documented only 28 doctorates awarded to Hispanic females in computer science who were US citizens, an average of 2-3 per year. For the most recent NSF survey data that covers 2001-2010 and includes doctoral degrees earned by US citizens and permanent residents, there were 44 Hispanic female doctorates in computer science, averaging 4-5 per year, which is still only 40% of the total (112) of CS doctorates awarded to Hispanics, and only 5.6% of the 782 CS doctorates awarded. NCWIT’s “By the Numbers” fact sheet documents that in 2011, only 1% of the computing workforce were Hispanic women.

A Call to Action

Latinas in Computing members are talented, passionate, active, and engaged, and their work has had demonstrable impact on the Hispanic computing community. While there is clearly more work to be done in all stages of the computing pipeline, LiC is currently focused on women earning doctorates and women in computing research, where the largest investments have been made, where women are at the greatest risk for retention, and where role models and mentors have the most influence to grow the rest of the pipeline. The NSF BPC program has ended, and the BPC alliances have completed or are in their final phase of funding. Institutionalization and scalability at public Hispanic Serving Institutions (through the Great Recession, when state and federal funding has been at an all-time low and there is greater competition for the shrinking pool of grants) remains an elusive challenge at a time when the US population of Hispanics is growing. For the US to remain competitive in technology and computing in particular, these programs need funding to remain viable and effective. We encourage you to actively advocate for these and other programs that are literally changing the face of computing. Support their efforts by “casting a wider, more inclusive net”: Guiding state and federal policymakers, closing pipeline gaps by coordinating outreach at all stages of the pipeline (especially in K-12 CS education), increasing opportunities for women and underrepresented minority undergraduates to pursue research, growing minority faculty research collaboration across institutions and organizations, providing careful and deliberate consideration of exceptional proposals from minority serving institutions throughout the peer grant review process, and addressing the issue of pedigree that begins in high school, proceeds through higher education, and continues across a diverse spectrum of careers.

About the authors: Patty Lopez is a Platform Applications Engineer working on high end servers at Intel Corporation, and prior to 2008, was a Senior Imaging Scientist at Hewlett-Packard for 19 years. She currently serves on the CRA-W board. Gilda Garretón is a Principal Engineer at Oracle Labs, and her main research focuses on parallel VLSI CAD algorithms.
Taulbee In-Depth:
Employment of New PhDs Outside North America

By Betsy Bizot
Director of Statistics and Evaluation

Since 2006, the CRA Taulbee Survey has collected data on PhD recipients in a way that allows us to look at patterns in their employment and demographics. This article considers PhDs who take employment outside North America: where do they go, who goes, and what kind of employment do they take? The analysis uses data from the 2006 – 2011 Taulbee Surveys from US and Canadian Computer Science, Computer Engineering, and (since 2008) Information departments on 10,452 PhDs. Table 1 shows the distribution of employment location for these new PhDs, indicating that 88.8% of those whose location is known remain in North America. During the six years included in this analysis, the percentages remaining in North America vary from 87.9 to 90.6 with no discernible trend, and therefore results for all years are combined.

Table 1 also shows the employment destination for six demographic subgroups: male and female for each of the three citizenship/ethnicity categories of foreign students (nonresident aliens or temporary visa holders), US/Canadian citizen and permanent resident underrepresented minorities (URM; includes African-American, Native American, Native Hawaiian and Pacific Islander, and Hispanic), and US/Canadian citizen and permanent resident majority (Asian, White). On average, foreign students are more likely to choose employment outside of North America than citizens and permanent residents, but they are still highly likely to remain in North America.

The percentage of new PhDs taking international employment according to Taulbee data is comparable to that found by the Survey of Earned Doctorates (SED). The SED is sent annually by NSF to all individuals completing PhDs at US institutions. SED results therefore summarize employment data (including location) as reported by the new PhDs themselves, a different source from the department-provided data used by Taulbee. Not surprisingly, the SED shows a very small number of new PhDs with “location unknown,” but their numbers agree well with the Taulbee results for Taulbee’s known locations. The 2011 SED report on Doctorate Recipients From U.S. Universities: 2011 (http://www.nsf.gov/statistics/sed/2011/start.cfm) shows that 87.8% of all those who received PhDs in Computer Sciences in that academic year were remaining in the US after graduation (table 59); of temporary visa holders who had definite postgraduate commitments, 81.2% were remaining in the US (table 52).

The remaining comparisons will combine the United States and Canada into “North America.” PhDs whose employment location was not known will be omitted; PhDs for whom the other variable in question is not known (e.g. employment type or specialty area) will also be omitted.

Table 1. PhD Employment Location, Overall and by Gender/Ethnicity/Citizenship, CRA Taulbee 2006-2011

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
<th>Percent</th>
<th>% of All Known</th>
<th>% Male URM</th>
<th>% Female URM</th>
<th>% Male Majority</th>
<th>% Female Majority</th>
<th>% Male Foreign</th>
<th>% Female Foreign</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>7,386</td>
<td>70.7</td>
<td>84.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>402</td>
<td>3.8</td>
<td>4.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total North America</td>
<td>7,788</td>
<td>74.5</td>
<td>88.8</td>
<td>93.0</td>
<td>98.6</td>
<td>93.9</td>
<td>94.6</td>
<td>84.0</td>
<td>87.1</td>
</tr>
<tr>
<td>China</td>
<td>105</td>
<td>1.0</td>
<td>1.2</td>
<td>0.0</td>
<td>0.0</td>
<td>0.6</td>
<td>0.4</td>
<td>1.8</td>
<td>1.7</td>
</tr>
<tr>
<td>India</td>
<td>86</td>
<td>0.8</td>
<td>1.0</td>
<td>0.5</td>
<td>0.0</td>
<td>0.2</td>
<td>0.1</td>
<td>1.6</td>
<td>1.5</td>
</tr>
<tr>
<td>EU Country</td>
<td>323</td>
<td>3.1</td>
<td>3.7</td>
<td>2.5</td>
<td>1.4</td>
<td>2.9</td>
<td>2.3</td>
<td>4.4</td>
<td>3.3</td>
</tr>
<tr>
<td>Other</td>
<td>467</td>
<td>4.5</td>
<td>5.3</td>
<td>4.0</td>
<td>0.0</td>
<td>2.4</td>
<td>2.5</td>
<td>8.2</td>
<td>6.4</td>
</tr>
<tr>
<td>Unknown</td>
<td>1,683</td>
<td>16.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Known Outside N America</td>
<td>981</td>
<td>11.2</td>
<td>7.0</td>
<td>1.4</td>
<td>6.1</td>
<td>5.4</td>
<td>16.0</td>
<td>12.9</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>10,452</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Employment Location by Specialty Area

What specialty areas are particularly prevalent in employment of US and Canadian PhDs outside of North America?

Among the 20 specialty areas included in Taulbee, the areas with the highest percentages of new PhDs going outside North America (compared to 12.1% overall) are Networks, 19%, and Computer-Supported Cooperative Work and Theory and Algorithms, both 15%.

The areas with the highest percentage of new PhDs remaining in North America (compared to 88.8% overall) are Informatics, 94%; and Human-Computer Interaction, High-Performance Computing, Information Science, and Software Engineering, all 92%.

Employment Location by Employment Type

Taulbee employment types are those in academia (tenure-track, non-tenure-track teaching, or non-tenure-track research in a PhD-granting department; any type of position in a non-PhD computing department; or postdoctorates). Non-academic positions include those with industry and those with government, most often government research labs.

Table 2 shows that by far the largest single group are those taking industry employment in North America (4,201; 58% of those employed in North America over the six years from 2006-2011). Industry is also the largest employment type for those employed in India (65%). By contrast, in China and in Other, the largest percentages are going to tenure-track academic positions in PhD-granting departments (40% and 33% respectively), and of those going to the EU, 45% are going for a postdoc. The most popular specialty areas for postdocs in the EU are Theory and Algorithms (20%), Artificial Intelligence (14%), and Robotics and Vision (13%).

For the past six years, employment outside of North America has been holding constant at about 12% of new PhDs. This review sheds some light on who they are, where they go, and what kinds of employment they take.

Table 2. PhD Employment Location by Employment Type, CRA Taulbee 2006-2011

<table>
<thead>
<tr>
<th>Employment Type</th>
<th>North America</th>
<th>China</th>
<th>India</th>
<th>EU</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Tenure Track</td>
<td>837 11.5%</td>
<td>35 39.8%</td>
<td>12 14.8%</td>
<td>51 16.7%</td>
<td>133 32.8%</td>
<td>1,068 13.1%</td>
</tr>
<tr>
<td>PhD Research</td>
<td>309 4.2%</td>
<td>6 6.8%</td>
<td>6 7.4%</td>
<td>21 6.9%</td>
<td>17 4.2%</td>
<td>359 4.4%</td>
</tr>
<tr>
<td>PhD Postdoc</td>
<td>1,108 15.2%</td>
<td>5 5.7%</td>
<td>2 2.5%</td>
<td>139 45.4%</td>
<td>48 11.9%</td>
<td>1,302 16.0%</td>
</tr>
<tr>
<td>PhD Teaching</td>
<td>192 2.6%</td>
<td>6 6.8%</td>
<td>6 7.4%</td>
<td>12 3.9%</td>
<td>24 5.9%</td>
<td>240 2.9%</td>
</tr>
<tr>
<td>Other CS/CE/I Dept</td>
<td>328 4.5%</td>
<td>7 8.0%</td>
<td>1 1.2%</td>
<td>10 3.3%</td>
<td>34 8.4%</td>
<td>380 4.7%</td>
</tr>
<tr>
<td>Industry</td>
<td>4,201 57.8%</td>
<td>29 33.0%</td>
<td>53 65.4%</td>
<td>68 22.2%</td>
<td>111 27.4%</td>
<td>4,462 54.7%</td>
</tr>
<tr>
<td>Government</td>
<td>296 4.1%</td>
<td>0 0.0%</td>
<td>1 1.2%</td>
<td>5 1.6%</td>
<td>38 9.4%</td>
<td>340 4.2%</td>
</tr>
<tr>
<td>Total</td>
<td>7,271 88%</td>
<td>81 81%</td>
<td>306 306%</td>
<td>405 405%</td>
<td>8,151 8,151%</td>
<td></td>
</tr>
</tbody>
</table>
The Computing Community Consortium: A Force Multiplier for CRA

By Ed Lazowska,

CCC Chair, University of Washington

The Computing Community Consortium, like CRA-W, is a committee of CRA that serves as a “force multiplier” for a particular aspect of CRA’s mission. CCC’s role is to work with the computing research community, the White House, Federal agencies, and others, to create momentum for visionary research themes that address major technical, national, and global challenges.

CCC has recently secured a new 4-year award from NSF, and is transitioning from “startup mode” to a sustainable organization through the creation of an Executive Committee and a leadership rotation strategy—ensuring that CCC will be able to continue to serve the computing research community for the foreseeable future.

Recent activities:

- NSF announced the new “Exploiting Parallelism and Scalability” (XPS) Program; the solicitation notes that CCC furnished a white paper earlier this year titled 21st Century Computer Architecture, through which members of the computing research community contributed strategic thinking in this space.
- CRA has adopted a “Best Practices” document on postdocs. CCC drove the creation of this document, stimulated by our innovative and highly successful Computing Innovation Fellows Project. Postdocs have been expanding rapidly in the computing fields. Only by being introspective and proactive can we ensure that these positions contribute to the professional development of the student, rather than being exploitative.
- The President’s Council of Advisors on Science and Technology has formally adopted a 2012 assessment of the Federal Networking and Information Technology Research and Development Program, advised by a Working Group consisting of CCC Vice Chair Susan Graham, former CCC Council member Peter Lee, and PCAST member David Shaw.

Upcoming activities:

- A “Challenges and Visions” track at the 6th Biennial Conference on Innovative Data Systems Research (CIDR), January 6-9 in Pacific Grove, CA—the ninth in a series of such tracks at major conferences in the field. Propose one for the major conference in your field!
- A workshop on MOOCS, “Multidisciplinary Research for Online Education,” February 11-12 in Washington, DC.
- A workshop on “Privacy R&D,” co-sponsored by CCC and the Information Technology & Innovation Foundation (ITIF), March 4 in Washington, DC.

How to get involved:

- Participate in various activities, as suggested above.
- Stay current! Follow the CCC Blog via its RSS feed.
- Participate in the Computing Research in Action video initiative—additional entries are welcome!

CCC, like CRA, is you! Participate!

Find us at http://www.cra.org/ccc/

NSF CISE CAREER Proposal Writing Workshop

Two one-day workshops on CAREER Proposal Writing are planned for 2013 by the Directorate for Computer & Information Science & Engineering at the National Science Foundation (NSF). The first one will be held on March 15 at Temple University in Philadelphia. The second workshop will take place at University of Texas, Arlington on May 17.

The goal of these workshops is to introduce junior faculty to the NSF CAREER program, and help them prepare their CAREER proposals. Faculty members will have the opportunity to improve their skills in proposal writing, as well as interact with NSF program directors from different divisions (IIS, CNS, and CCF) and recent NSF CAREER awardees. The major components of the workshop include presentations on proposal writing, experience sharing, mock panels, and proposal clinic. Registration is currently available for the March 15th workshop at http://www.cis.temple.edu/NSFCareer2013/.
Exploring the Baccalaureate Origin of Domestic Ph.D. Students in Computing Fields

Susanne Hambrusch, Purdue University and NSF
Ran Libeskind-Hadas, Harvey Mudd College
Fen Zhao, AAAS Fellow, NSF
David Rabson, AAAS Fellow, NSF and University of South Florida
Amy Csizmar Dalal, Carleton College
Charles Isbell, Georgia Institute of Technology
Valerie Taylor, Texas A&M University

1. Introduction

Increasing the number of US students entering graduate school and receiving a Ph.D. in computer science is a goal as well as a challenge for many US Ph.D. granting institutions. Although the total computer science Ph.D. production in the U.S. has doubled between 2000 and 2010 (Figure 1), the fraction of domestic students receiving a Ph.D. from U.S. graduate programs has been below 50% since 2003 (Figure 2).

The goal of the Pipeline Project of CRA-E (PiPE) is to better understand the pipeline of US citizens and Permanent Residents (henceforth termed domestic students) who apply, matriculate, and graduate from doctoral programs in computer science. This article is the first of two articles from CRA-E examining this issue.

This article provides an initial examination of the baccalaureate origins of domestic students who have matriculated to Ph.D. programs in computer science. We hope that trends and patterns in these data can be useful both in recruiting and, ultimately, in improving the quality and quantity of the domestic Ph.D. pipeline.

2. Sources of Data

We used the following publically available data sources:

- NSF’s WebCASPAR (https://webcaspar.nsf.gov/)
- The National Center for Science and Engineering Statistics (NCSES), formerly NSF’s Division of Science Resources Statistics (http://www.nsf.gov/statistics/) 
- NSF Graduate Research Fellowship awardees and honorable mentions from FastLane (https://www.fastlane.nsf.gov/grfp/AwardeeList.do?method=loadAwardeeList)

Figure 1 shows the number of Ph.D. ’s awarded in the U.S. in computer science from 1982 to 2010 as reported by WebCASPAR. Another data source for Ph.D. production is the Taulbee report released annually by the CRA and available at http://www.cra.org/resources/taulbee/. The Taulbee data on Ph.D. production complements WebCASPAR data. Taulbee provides Ph.D. production for institutions in the US and Canada and considers degrees in computer science, computer engineering and information science. We note that Taulbee data only includes CRA member institutions and thus omits some institutions in the WebCASPAR dataset, but counts Ph.D.s in related computing fields which is difficult to capture with WebCASPAR. We refer to http://cra.org/resources/crn-archive-view-detail/counting_computing_cra_taulbee_survey_and_nsf_statistics/ for a detailed comparison. Although the Taulbee and WebCASPAR datasets differ, they do show similar trends.

![Figure 1: Total Ph.D. Production in Computer Science from 1985 to 2010](http://webcaspar.nsf.gov)
We use the 2010 Carnegie classification (http://classifications.carnegiefoundation.org/) for grouping institutions and consider for five groups: Research Universities (297), master’s institutions (727), four-year Colleges (810), other/unknown and non-Carnegie institutions. The number in the parenthesis for the first three groups indicates the number of institutions in that group. Other/Unknown includes a small number of institutions that don’t fit into the other categories and non-Carnegie institutions refer to institutions outside the US.1 While this is an admittedly coarse partitioning, it provides a valuable overview and shows some important trends and patterns.

The main objective of this report is to provide insight into the undergraduate origins of domestic Ph.D. students. Where data sources fail to provide breakdowns by residency status, we have used a domestic bachelor’s degree as a proxy for “domestic student.” This will fail to identify the small numbers of domestic students who received their undergraduate educations outside the U.S. or of international students who received their undergraduate educations at U.S. institutions. We believe these limitations are modest and do not detract from the overall findings of this report.

3. Summary of Findings

The following is a summary of our findings:

- In 2010, over 70% of the Ph.D.’s awarded to domestic students went to students who completed their undergraduate studies at research universities, 15% at master’s institutions, 11% at four-year colleges, and about 4% from the other/unknown category. These percentages have not changed much since 2000.
- The percentage of students completing a Ph.D. within six years of completion of their undergraduate degree is approximately:
  - 2.5% for graduates from research universities
  - 1.0% for graduates from four-year colleges
  - 0.5% for graduates from master’s institutions
- A small number of baccalaureate institutions produce a large number of undergraduates who go on to get Ph.D.’s in computer science. For example, more than 10% of domestic students obtaining Ph.D.’s in computer science received their undergraduate degrees at just four institutions (MIT, Berkeley, CMU, and Cornell).
- Approximately 50% of domestic Ph.D. students come from 54 institutions of baccalaureate origin and the other 50% come from over 747 institutions.
- The top 25 liberal arts colleges (according to the U.S. News and World Report ranking) collectively produce a significant fraction of domestic students receiving a Ph.D., exceeding the production of any single university.
- NSF Graduate Fellowship awards

![Figure 2: Percent of Ph.D.'s Awarded to Temporary Residents (i.e., international students) and U.S. Citizens/Permanent Residents from 1985 to 2010](http://webcaspar.nsf.gov and http://ncses.norg.org/NSFTabEngine)

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1For the purposes of this study, the Frank W. Olin College of Engineering is considered a four-year college, and Rose-Hulman Institute of Technology is classified as a master’s institution.
can be viewed as a proxy for “top” students. Since 2003, graduates of research universities receive 80-90% of the awards. Graduates of five institutions each received between 4 and 5% of the awards for a total of over 20% of all awards. Collectively, graduates of the top 25 liberal arts colleges received approximately 6% of the awards.

4. Findings in Detail
4.1 Domestic “Production”
For the last two decades, U.S. research universities and master’s institutions have produced roughly the same number of undergraduate degrees in computer science. Together, these two classes of institutions account for almost 90% of all undergraduate degrees awarded. Four-year colleges account for about 10% of degrees (Figure 3).

Figure 4 uses the same data as Figure 3 and shows the actual numbers of degrees awarded.

Figure 3: Percentage of domestic bachelor degrees awarded in computer science by type of institution

![Graph showing the percentage of domestic bachelor degrees awarded by type of institution from 1994 to 2010.](http://webcaspar.nsf.gov)

Source: NCSES, IPEDS Completion Survey (http://webcaspar.nsf.gov)

Figure 4: Number of domestic undergraduate degrees awarded in computer science by type of institution

![Graph showing the number of domestic undergraduate degrees awarded by type of institution from 1994 to 2010.](http://webcaspar.nsf.gov)

Source: NCSES, IPEDS Completion Survey (http://webcaspar.nsf.gov)
Next, we use WebCASPAR data to examine the baccalaureate origins of all students receiving Ph.D.’s in computer science in the U.S. In 2010, 1665 Ph.D.’s were awarded in computer science of which 714 went to domestic students. Approximately 71% of the domestic Ph.D.’s received their undergraduate degrees from research universities, 15% from master’s institutions, 11% from four-year colleges, and 4% from other colleges. These proportions have remained essentially unchanged since 2000 with all four types seeing similar increases since 2005. These data are summarized in Figure 5.

While research and master’s institutions have consistently produced approximately the same number of computer science undergraduates, the representation of their undergraduates among Ph.D. recipients differs considerably, as evident from Figure 5. Figure 6 considers the domestic undergraduate-to-PhD pipeline for research, master’s, and 4-year institutions by relating the total number

**Figure 5:** Computer Science Ph.D.’s granted to domestic students by type of baccalaureate institution

![Figure 5: Computer Science Ph.D.’s granted to domestic students by type of baccalaureate institution](http://webcaspar.nsf.gov)

Source: NSF, Survey of Earned Doctorates (http://webcaspar.nsf.gov)

**Figure 6:** Percentage of domestic CS students who complete a PhD within 6 years of completing undergraduate studies by type of baccalaureate institution of origin. Horizontal axis indicates year of completion of undergraduate studies

![Figure 6: Percentage of domestic CS students who complete a PhD within 6 years of completing undergraduate studies by type of baccalaureate institution of origin. Horizontal axis indicates year of completion of undergraduate studies](http://webcaspar.nsf.gov)

of students receiving an undergraduate computer science degree to the number of Ph.D.’s in computer science within 6 years of completion of undergraduate studies. The figure is based on Ph.D.s received between 2000 and 2010 and assumes that each recipient received the baccalaureate degree six years earlier. While the fractions are very small for each type of institution, research universities produce students at a rate that is more than twice as high as four-year colleges and roughly five times as high as master’s institutions.

In the eleven year period from the beginning of 2000 to the end of 2010, a total of 5,257 domestic students received a baccalaureate degree and a Ph.D. in computer science from a U.S. institution. A total of 801 U.S. institutions awarded baccalaureate degrees to these 5,257 students. For each of these 801 baccalaureate institutions, we divided the total number of its graduates who received Ph.D.’s during that time by 11 to obtain an average annual production number over that period.

Only one institution (MIT) had an annual average production of 15 or more undergraduates. Three other institutions (Berkeley, CMU, and Cornell) had an average production of more than 10 but less than 15. Together, these four baccalaureate institutions accounted for over 10% of all Ph.D.’s awarded to domestic students. The next 10% of all Ph.D.’s in that period came from only eight other baccalaureate institutions (Harvard, Brigham Young, Stanford, UT Austin, UIUC, Princeton, University of Michigan, and UCLA). In total, 54 (6.7%) of the 801 baccalaureate institutions accounted for 50% of the total Ph.D. production. The average annual production numbers are summarized in Figure 7.

Highly selective four-year colleges are an important source of the domestic Ph.D. production. Since most of these schools have very small enrollments, we examined them collectively. The top 25 liberal arts colleges (using the U.S. News and World Reports ranking) collectively enroll slightly less than 50,000 students per year in all majors and were the origins of 190 Ph.D. degrees between 2000 and 2010, collectively ranking ahead of any single research university.

In spite of the fact that a small number of baccalaureate institutions account for a large fraction of the domestic Ph.D.’s, nearly 18% of all Ph.D.’s came from baccalaureate with an average annual production of less than 2.

4.2 Baccalaureate Origins of NSF Graduate Research Fellowships Awardees/Honorable Mentions

NSF Graduate Research Fellowship (GRF) awardees provide a proxy for “top” domestic graduate students. We note that this is an imperfect measure, because it is based on NSF’s eligibility criteria and specific merit review criteria (see http://www.nsf.gov/pubs/2012/nsf12599/nsf12599.htm). NSF FastLane provides data on the baccalaureate institutions for students receiving awards and honorable mentions and this section examines baccalaureate institutions based on the Carnegie classifications. We examine only the institution of baccalaureate origin and not the institution from which a student ultimately receives the Ph.D.

Since 2010, approximately 2000 GRF awards were made per year across all eligible disciplines. The number of awards allocated to a discipline
is generally determined by the total number of applications from that discipline. For NSF’s Directorate for Computer and Information Science and Engineering (CISE), the number of GRF applications has increased from about 450 in 2006 to 650 in 2011 and the award rate has increased from 12 to 17%. When honorable mentions are included, the success rate increases to approximately 30%.

Figure 8 shows the baccalaureate institution types for CISE awards. Note that only domestic students are eligible for NSF GRF awards, but some domestic awardees attended foreign baccalaureate institutions. Approximately 80-90% of all awards were made to students who completed their undergraduate studies at research universities, which is somewhat higher than their representation (76%) in graduate programs overall. Over the last ten years, students from four-year colleges received 10% of the GRF fellowships (they represent about 11% of students receiving a Ph.D.). Students from master’s institutions received fewer than 6% even though they represent about 15% of the Ph.D.’s and 40% of all undergraduate degrees.

From 2003-2012, 805 NSF GRFs were awarded to students from 222 baccalaureate institutions. Approximately 51% of the awards and 51% of the honorable mentions went to students from 22 baccalaureate institutions shown in Table 1. One four-year institution, Harvey Mudd College, is represented in the top 22 institutions.

The top 12 four-year institutions (out of 46 4-year institutions) are listed in Table 2. Collectively, they received 46 fellowships and 47 honorable mentions, making them a group larger than any single institution in Table 1.

5. Conclusions

This study examined the baccalaureate origins of domestic Ph.D. students in computer science. Perhaps the single most striking finding is that a small number of research universities and highly selective colleges are the undergraduate schools of origin for a large fraction of domestic Ph.D. students and NSF Graduate Research Fellowship recipients. However, a very large number of institutions send an average of between one and five students to graduate school each year and their impact on the domestic pipeline is important.

These results suggest that there are a number of opportunities for increasing the number and quality of domestic students going on to Ph.D. programs. Master’s institutions appear to be an underutilized source of prospective graduate students. Efforts to encourage students from these schools to apply to graduate school could have a significant positive impact on the domestic pipeline. While some of the most prolific domestic producers are top-ranked institutions, many remarkably successful institutions are smaller and/or less well known. Identifying and disseminating some of the features of these successful producers can have a positive impact on the domestic Ph.D. pipeline.

This study did not explore recruiting and admissions practices and their potential impact on the production of domestic Ph.D. students. A second article from CRA-E will explore these phenomena and will appear in CRN in the near future.

Figure 8: CISE GRF Awards by Type of Baccalaureate Institutions

<table>
<thead>
<tr>
<th>Year</th>
<th>Research</th>
<th>Master’s</th>
<th>Four-year</th>
<th>Foreign</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
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<tr>
<td>2004</td>
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<td>2010</td>
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<tr>
<td>2011</td>
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<tr>
<td>2012</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sources: National Science Foundation (https://www.fastlane.nsf.gov/grfp) and the Carnegie Foundation (http://classifications.carnegiefoundation.org)
### Table 1: Undergraduate Institutions of Students Receiving a GRF Award or Honorable Mention Between 2003 and 2012

<table>
<thead>
<tr>
<th>Institution</th>
<th>Awards</th>
<th>Honorable Mentions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts Institute of Technology</td>
<td>44</td>
<td>41</td>
</tr>
<tr>
<td>Carnegie Mellon University</td>
<td>39</td>
<td>45</td>
</tr>
<tr>
<td>Stanford University</td>
<td>36</td>
<td>31</td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>30</td>
<td>52</td>
</tr>
<tr>
<td>Harvard University</td>
<td>28</td>
<td>24</td>
</tr>
<tr>
<td>Princeton University</td>
<td>27</td>
<td>26</td>
</tr>
<tr>
<td>Georgia Institute of Technology</td>
<td>22</td>
<td>20</td>
</tr>
<tr>
<td>University of Washington</td>
<td>21</td>
<td>27</td>
</tr>
<tr>
<td>California Institute of Technology</td>
<td>18</td>
<td>13</td>
</tr>
<tr>
<td>The University of Texas at Austin</td>
<td>18</td>
<td>11</td>
</tr>
<tr>
<td>Cornell University</td>
<td>15</td>
<td>38</td>
</tr>
<tr>
<td>University of Virginia</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>University of Illinois at Urbana-Champaign</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>Rice University</td>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td>Duke University</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>Harvey Mudd College</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>University of California, San Diego</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>Rensselaer Polytechnic Institute</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>Yale University</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>University of California, Irvine</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>Washington University in St Louis</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>Subtotal (top 22)</td>
<td>414</td>
<td>445</td>
</tr>
<tr>
<td>All other institutions (200)</td>
<td>391</td>
<td>424</td>
</tr>
<tr>
<td>TOTAL</td>
<td>805</td>
<td>869</td>
</tr>
</tbody>
</table>

### Table 2: 4-year Colleges Whose Graduates Received a GRF Award or Honorable Mention

<table>
<thead>
<tr>
<th>Institution</th>
<th>Awards</th>
<th>Honorable Mentions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvey Mudd College</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>Franklin W. Olin College of Engineering</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>Swarthmore College</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Williams College</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Middlebury College</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Carleton College</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Amherst College</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Pomona College</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>United States Military Academy</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Oberlin College</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Bryn Mawr College</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Haverford College</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Wellesley College</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Subtotal (top 13)</td>
<td>46</td>
<td>47</td>
</tr>
<tr>
<td>All other four-year colleges (34)</td>
<td>34</td>
<td>29</td>
</tr>
<tr>
<td>TOTAL</td>
<td>80</td>
<td>76</td>
</tr>
<tr>
<td>all institutions</td>
<td>805</td>
<td>869</td>
</tr>
</tbody>
</table>
ABET has named former CRA Board Member Stuart H. Zweben, as the 2012 recipient of its Linton E. Grinter Distinguished Service Award. Zweben served on the CRA Board of Directors from 1997-2004 as an ACM representative. Since then, he has continued as chair of the CRA Survey Committee, and is instrumental in guiding the Taulbee survey each year.

Zweben is a Professor Emeritus in the Department of Computer Science and Engineering at The Ohio State University and received the CRA Special Service Award in 2006.

Zweben’s Grinter award citation states, “For outstanding leadership in computing accreditation worldwide, including more than 27 years of service to ABET and CSAB, and for being a catalyst behind the growth of computing accreditation in the United States over the last 25 years.”

The Grinter award is named for engineering and engineering technology education pioneer Linton E. Grinter, and it recognizes ABET volunteers who follow his example and surpass even the highest service expectations of the organization. The award is the highest honor that ABET, the recognized accreditor for college and university programs in applied science, computing, engineering, and engineering technology, bestows.
Extraordinary Opportunity to Meet Pre-Eminent Scientists in Computing and Mathematics

The Heidelberg Laureates Forum will bring students together with the very pioneering researchers who may have sparked their passion for science and math. Modeled after the Lindau Nobel Laureate Meeting, the Heidelberg Laureates Forum will provide an opportunity for young researchers to spend a week with recipients of the top awards in computing and mathematics.

ACM helped create the Heidelberg Laureates Forum to raise the visibility of the Turing Award – computing’s most prestigious award – and the computing discipline worldwide.

The Heidelberg Laureates Forum unites recipients of ACM’s Turing Award, the Abel Prize (from the Norwegian Academy for Science and Letters), and the Fields Medal (from the International Mathematical Union), with approximately 100 young researchers for a week each September in Heidelberg, Germany.

The event will focus on scientific inspiration and exchange through a series of presentations, workshops, panel discussions, and social events involving both the laureates and the young scientists.

The Forum will alternate each year between computer science and mathematics. The first Forum, September 22 - 27, 2013, will include both computer science and mathematics.

The Heidelberg Laureates Forum invites new and recent PhDs, PhD candidates, and other graduate students involved in research, and undergraduate students with solid experience in, and a commitment to, computing or mathematics research to apply.

Young researchers can apply directly or be nominated by a colleague, professor, mentor or manager who can attest to the quality of their work. To apply or nominate, go to http://www.heidelberg-laureate-forum.org/.

Applications and nominations must be completed by February 15, 2013. Successful applicants will be notified by April 15, 2013 and will receive full support to attend the Forum.

The Klaus Tschira Foundation and the Heidelberg Institute of Theoretical Studies have joined with the Association for Computing Machinery, the International Mathematics Union, the Norwegian Academy of Science and Letters, the Mathematisches Forschungszentrum Oberwolfach, and the Schloss Dagstuhl – Leibniz Center for Informatics to create the Heidelberg Laureates Forum.
Professional Opportunities

Arizona State University

Herberger Institute for Design and the Arts
Associate/Assistant Professor in Human Computer Interaction
School of Arts, Media and Engineering

The School of Arts, Media and Engineering (ame.asu.edu) in the Herberger Institute for Design and the Arts at Arizona State University invites applicants for a full-time tenure-track appointment at the associate/assistant professor level beginning fall 2013. The successful candidate will take a leadership role in the Human Computer Interaction group, and contribute significantly to the development of the education and research mission of the school.

Screening of candidates will begin immediately; for best consideration, application materials should be provided by December 5, 2012. If not filled, reviews will occur monthly thereafter until the search is closed.

For complete qualifications and application information, see: ame.asu.edu/about/employment_faculty.php

Arizona State University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. See ASU’s complete nondiscrimination statement at www.asu.edu/titleix/.

Arizona State University

Herberger Institute for Design and the Arts
Associate/Assistant Professor in Interactive Media
School of Arts, Media and Engineering

The School of Arts, Media and Engineering (ame.asu.edu) in the Herberger Institute for Design and the Arts at Arizona State University invites applicants for a full-time tenure-track appointment in Interactive Media at the associate/assistant professor level beginning fall 2013. Screening of candidates will begin immediately; for best consideration, application materials should be provided by December 5, 2012. If not filled, reviews will occur monthly thereafter until the search is closed.

For complete qualifications and application information, see: ame.asu.edu/about/employment_faculty.php

Arizona State University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. See ASU’s complete nondiscrimination statement at www.asu.edu/titleix/.

Bowling Green State University

Three Tenure-track Positions in Computer Science

We are seeking to fill three tenure-track Assistant Professor positions in Computer Science to teach a variety of courses at the undergraduate and graduate levels and to be productive in scholarly research and sponsored projects. Preferred specializations are Big Data/high performance computing/visualization, computer and information security, software engineering. Applicants must hold a Ph.D. in CS (or closely related field) or complete it by the start date in August 2013, and be committed to excellence in teaching, scholarly research, and external funding. BGSU is located about an hour from Detroit airport, and the area offers excellent quality of life. BGSU is an AA/EOE.

Email cssearch2013@cs.bgsu.edu a letter of interest, along with the name, title, email, and postal addresses for three professional references, curriculum vitae, official or unofficial transcripts by January 13, 2013. For finalists, three current letters of reference, official transcript of the highest degree, and background check are required.

For details, go to http://www.bgsu.edu/departments/compsci/jobs.

Brown University

Department of Computer Science
Faculty Position Available

The Department of Computer Science at Brown University seeks applicants in the areas of human-centered computing (including HCI, interface- and experience-design, cognitive issues in interfaces, human-robot interaction, and interaction with an increasingly-wired world) and cybersecurity (including secure and reliable systems, network security and stability, privacy and authentication, practical security, cyber-economics, and the science of security) for a faculty position starting on September 1, 2013.

These are two of the four areas the department has identified for growth, the others being big data (including systems topics such as data management, and scalable computing, and analysis topics such as machine learning and data mining), and computing in the human world (including intelligent decision making, statistical machine learning, social and financial networks, autonomous robotics, computer vision, and natural language processing).

In selecting candidates, we will consider quality of research, teaching, and compatibility with the needs and interests of the department. The position is open for all ranks with preference given to junior candidates.

The department has 27 tenured and tenure-track faculty members as well as several adjunct, research, and visiting faculty members. Department members frequently take advantage of Brown’s interdisciplinary culture via collaborations with numerous other departments and centers, including Africana Studies, Applied Mathematics, Art, Biology, Brain Science, Cognitive Linguistic and Psychological Sciences, Computational Molecular Biology, Computer Vision, Economics, Engineering, Mathematics, Medicine, the Physical Sciences, and Psychology.

Brown University is located in Providence, RI, close to Narragansett Bay, an hour from Boston and about three hours from New York City. Providence has been consistently rated as among the Northeast’s most livable cities and is home to diverse intellectual, artistic, and business communities.

Junior applicants must have completed all requirements for the doctoral degree by September 1, 2013. The initial appointment as assistant professor is for four years and is renewable. Applicants for a junior position must submit 3 letters of reference, and senior candidates should submit 5 names of references whom the committee may contact.

These should be submitted online through the Computer Science Department’s website (http://cs.brown.edu) by December 15, 2012. Applications will be considered until the position is filled.

Inquiries may be addressed to faculty_search_2013@cs.brown.edu. Brown University is an equal opportunity/affirmative action employer and strongly encourages applications from women and minorities.

Bucknell University

Assistant Professor, Computer Science – Computer Architecture

Applications are invited for a tenure-track position in computer science beginning mid-August 2013. We expect to hire at the Assistant Professor level, but outstanding candidates will be considered at Associate Professor or Professor; years of credit toward tenure will be awarded based upon qualifications. We seek a teacher-scholar with a demonstrated ability to work with a diverse student body and are specifically interested in candidates whose research area is in computer architecture. This position is responsible for the department’s upper-level undergraduate Computer Architecture course. In addition, the successful candidate must be able to participate in the teaching of required core courses and be able to develop elective courses in the candidate’s area of expertise. Candidates are expected to have completed or be in the final stages of completing their Ph.D. by the beginning of the 2013 fall semester. A strong commitment to excellence in teaching and scholarship is required.

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

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

Please direct any questions to Professor Stephen Guattery of the Computer Science Department at guattery@bucknell.edu

Bucknell University, an Equal Opportunity Employer, believes that students learn best in a diverse, inclusive community and is therefore committed to academic excellence through diversity in its faculty, staff, and students. Thus, we seek candidates who are committed to Bucknell’s efforts to create a climate that fosters the growth and development of a diverse student body. We welcome applications from members of groups that have been historically underrepresented in higher education.

Caltech

Computing and Mathematical Sciences Department
Tenure-Track Faculty Position

The Caltech Computing and Mathematical Sciences (CMS) Department (http://www.cms.caltech.edu) invites applications for a tenure-track faculty position. The CMS department is a unique environment where innovative, multidisciplinary, and foundational research is conducted in a collegial atmosphere. We are looking for candidates in Applied Mathematics, Computer Science, and Control & Dynamical Systems, who have demonstrated exceptional promise through innovative research with strong potential connections to other mathematical, natural, and engineering sciences. A commitment to high-quality teaching and mentoring is also expected.

The initial appointment at the assistant-professor level is for four years and is contingent upon the completion of a Ph.D. degree in a CMS-related field. To ensure the fullest consideration, applicants are encouraged to have all their application materials on file by January 1, 2013.

Please view the application instructions and apply on-line at: http://www.eas.caltech.edu/positions/cms_broad/

Questions about the application process may be directed to: info@cms.caltech.edu

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

Canadian Institute for Advanced Research
Quantum Information Processing Program
CIFAR Junior Fellowship

The Canadian Institute for Advanced Research brings together top international researchers to tackle many of the most interesting and pressing questions of our time. Our Junior Fellow Academy offers gifted, early career researchers the unique opportunity to participate in CIFAR’s global research network and to closely collaborate, and be mentored by, some of Canada’s and the world’s best researchers.

Junior Fellows take part in one of CIFAR’s innovative research programs, where researchers meet regularly to establish new frameworks for thinking about the world with the potential to improve human health and the environment, transform technology, build strong societies, understand human culture and even chart the universe. To enhance leadership skills within an interdisciplinary network of peers, CIFAR also brings together Junior Fellows from all twelve programs for separate Academy meetings.

CIFAR’s Quantum Information Processing (QIP) Program is seeking an outstanding postdoctoral researcher to fill a Junior Fellowship position beginning in July 2013. The fellowship will be held in conjunction with a university postdoctoral appointment under the supervision of one or more program members, and is tenable at any of the Canadian institutions where members of the program are based. In exceptional circumstances, arrangements with members based outside of Canada will be considered.

The QIP Program studies a wide range of topics relating to quantum information, including theoretical computer science, mathematical aspects of quantum information, and experimental and theoretical physics.

Eligibility: Individuals who have completed their PhD no more than three years before the Fellowship starting date are eligible to apply. The successful candidate will have an outstanding record of accomplishment in an area of interest to the program, excellent communication skills, strong potential to collaborate with program members and ability to contribute to the program’s mission. He/she will also display a strong interest in connecting with peers from other disciplines through the Junior Fellow Academy.

Duration: Junior Fellows become members of the Junior Fellow Academy for five years. The first two years are funded by CIFAR as below. For the last three years of the Junior Fellowship, CIFAR covers the cost to attend Academy meetings.

Value: $70,000 CDN/US per year for salary and benefits $5,000 CDN/US per year for research support

*US dollar values apply if the Junior Fellowship is held outside of Canada.

How to Apply: Visit www.cifar.ca/JFA for information about the Junior Fellow Academy, potential supervisors, application requirements and instructions. Application deadline: January 21, 2013.

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

Carnegie Mellon University
Computer Science Department
Teaching Track Positions

Applications are invited for two teaching-track positions in Computer Science, beginning Fall 2013. This is a renewable, career-oriented position with an initial appointment for three years. We seek highly qualified applicants with a strong commitment to excellence in teaching and the ability to teach at all levels in the undergraduate curriculum.

Applications for the position must have a Ph.D. in Computer Science or a related field, and demonstrated excellence in teaching Computer Science courses. Teaching-track appointments are typically at the rank of Assistant Teaching Professor, with the possibility of promotion to the ranks of Associate Teaching Professor and Teaching Professor. None of these ranks are tenured; applicants seeking a tenure-track position at a research university are therefore not a good match for these positions.

In order to receive full consideration, applicants should submit a letter of application, curriculum vitae, a statement of teaching philosophy, and the names and email addresses of three or more individuals whom the applicant has asked to provide letters of reference. Applicants should arrange for reference letters to be sent directly to the contact below. This information should be sent by January 31, 2013, to the contact listed below.

Additionally, applicants are encouraged to submit a video sample of their teaching. This enables applicants to add another dimension to their application. Since the people who will eventually fill these positions will be expected to be an excellent classroom teachers, the video sample is an opportunity for candidates to show off their talents in a way other than traditional on paper means.

Please send your applications and accompanying materials to:
Dr. Klaus Sutner
Computer Science Department
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213
Email: sutner@cs.cmu.edu

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

Clemson University
School of Computing
Assistant Professor, Computer Science

The Division of Computer Science in the School of Computing at Clemson University invites applicants for tenure-track faculty positions at the rank of Assistant
Professional Opportunities

Professor. Persons with exceptional qualifications may be considered at a higher rank. We are especially interested in persons specializing in networking, cloud computing, and security, although highly qualified candidates in all areas that meet our goals of growing collaborative and multi-disciplinary research will also be considered, especially those complementary to our areas of current research strength in data-intensive and scientific computing, networking and sensor networks, and software engineering. Clemson is the land grant university of South Carolina and ranks in the Top 25 among U.S. public universities.

All application materials received by January 31, 2013 will be given guaranteed consideration; however, the search will continue until a suitable candidate is found.

For more information, please see: www.clemson.edu/computing/faculty-openings.html

Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status or genetic information.

Colorado School of Mines

College of Engineering and Computational Sciences – Department of Electrical Engineering and Computer Science

Associate Professor – Computer Science

The Department of Electrical Engineering and Computer Science (EECS) at Colorado School of Mines (Mines) invites applications for an anticipated Associate Professor position in Computer Science.

The successful candidate will teach undergraduate and graduate courses as well as develop an externally funded research program that includes graduate students and results in publications in conferences and journals. Mines and professional service is expected. Mines encourages applications from qualified candidates who will contribute to the diversity and excellence of our academic community through their research, teaching, and service.

Required are a Ph.D. in Computer Science or another closely related field; documented success in teaching, scholarship and service; and the potential for national and international professional recognition. Applicants must demonstrate excellent organizational, interpersonal and communication skills. Research specialties of interest include: high performance computing, networking and cyber physical systems, data mining, machine learning, algorithms, software engineering, and computer vision.

For the complete job announcement and directions on how to apply, visit: http://inside.mines.edu/HR-Academic-Faculty

Columbia University

Department of Computer Science

Faculty Positions

The Department of Computer Science at Columbia University in New York City invites applications for tenured or tenure-track faculty positions. One or more appointments at the Assistant Professor, Associate Professor and Full Professor levels will be considered.

The successful candidate should contribute to the advancement of the Department by developing an externally funded research program, being a thought leader in the profession, contributing to the undergraduate and graduate educational mission of the Department and providing active service to professional societies. The Department is especially interested in qualified candidates who can contribute, through their research, teaching, and service, to the diversity and excellence of the academic community.

Candidates are sought in all areas of Computer Science. Candidates are also sought whose research overlaps with the newly formed Institute for Data Sciences and Engineering at Columbia: http://idee.columbia.edu. Candidates must have a Ph.D. or its professional equivalent by the starting date of the appointment. Candidates at the Assistant Professor and Associate Professor levels without tenure must have the potential to do pioneering research and to teach effectively. Candidates at the tenured level (Associate or Full Professor) must have a demonstrated record of outstanding research accomplishments, excellent teaching credentials and established leadership in the field.

Candidates should apply online at: http://academicjobs.columbia.edu/applicants/Central?quickFind=56990

and should submit electronically the following: curriculum vitae including a publication list, a statement of research interests, a statement of teaching interests, contact information for three people who can provide letters of recommendation, and up to three pre/reprints of scholarly work. The search will close no sooner than 12/31/2012, and will remain open until filled.

Candidates can consult http://www.cs.columbia.edu for more information about the Department.

Columbia is an affirmative action/equal opportunity employer with a strong commitment to the quality of faculty life.

Connecticut College

Departments of Computer Science and Biology

Bioinformatics Postdoctoral / Visiting Faculty

Connecticut College is seeking candidates with research interests in the use of data mining / machine learning for analyzing biological data.

See details at cs.connicoll.edu/bioinformatics.htm for this faculty position to begin in August.

Dartmouth College

Institute for Security, Technology, and Society

Director

Dartmouth seeks applications and nominations for the position of Director of the Institute for Security, Technology, and Society (ISTS). ISTS is dedicated to pursuing multidisciplinary research, education, and outreach programs to advance information security and privacy throughout society. Drawing on the expertise of scholars from across the faculties of Arts & Sciences, the Tuck School of Business, the Thayer School of Engineering, and the Geisel School of Medicine, ISTS fosters multidisciplinary technical and social science research, and policy analysis, to study and address the impact of the rapid evolution of information and communication technologies across industries, organizations and government, and the security and privacy issues that arise from this evolution.

The Director will be a world-class scholar with a strong track record of interdisciplinary research in a field related to security, technology, and society. The successful candidate will be a person who merit tenure either in an Arts & Sciences department or in the Thayer School of Engineering at the associate or full professor level. The Director will be responsible for setting the vision for ISTS, helping to identify funding to execute the vision, and building interdisciplinary collaborations. Candidates who will develop and initiate new research programs with researchers at the professional schools, as well as engage a broad base of faculty from the Arts & Sciences are particularly sought.

The appointment is expected to begin in the 2013/14 academic year. Rank and salary will be commensurate with qualifications and experience.

Applicants should submit a letter of interest and a curriculum vitae together with contact information for five professional references, preferably as PDF. Applications received by February 15, 2013 will receive first consideration. Applications and nominations should be sent electronically to ISTS-search@dartmouth.edu. For inquiries into the position, please contact (603) 646-8794.

Dartmouth is an Affirmative Action/Equal Opportunity Employer that values diversity as a key component of academic excellence. Women and members of minority groups are strongly encouraged to apply.

Drexel University

Senior Research Scientist, Research Professor

The iSchool at Drexel, College of Information Science and Technology, Drexel University invites applications for anticipated senior research faculty positions in key science and engineering areas aligned with strategic university-wide research initiatives. Drexel University is in the midst of a period of unprecedented growth and opportunity. The iSchool seeks to
Professional Opportunities

identify and recruit senior scientists and engineers with diverse backgrounds committed to advancing current interdisciplinary research programs, as well as creating new ones. More information about Drexel is available in the University’s current strategic plan at: http://www.drexel.edu/provost/strategicplan/

The Drexel College of Information Science and Technology, regularly ranked in the top 10 Information Systems programs in the nation, has several burgeoning programs in data analytics and applied informatics. The College recently launched several major research initiatives, including the National Science Foundation Industry/University Collaborative Research Center for Visual Decision Informatics, the Applied Informatics Group, and the internationally focused DataNet Federation Consortium. Current customers and partners of these initiatives include: Lockheed Martin, Science Applications International Corporation (SAIC), Defense Advanced Research Project Agency (DARPA), Advanced Research and Development Activity (ARDA), National Security Agency (NSA), Telcordia Technologies, MIT Lincoln Labs, Office of Naval Research (ONR), Defense Information Systems Agency (DISA), Sarnoff Corporation, Naval Research Lab (NRL), Federal Aviation Administration (FAA), and many others.

It is expected that candidates hired in this search will contribute significantly to the establishment and growth of these initiatives.

Essential Functions/Characteristics

Drexel seeks individuals who have demonstrated skills in working on systems-oriented and interdisciplinary problems. Successful candidates will have experience in initiating, growing and managing large-scale, interdisciplinary, research efforts. Key areas of strategic interest for which Drexel University and The iSchool at Drexel include:

- Verification and validation of complex software systems;
- Modeling & simulation (e.g., computer networks, air space deconfliction, etc.);
- “Big Data”, eScience, data-driven science and engineering;
- Cyber (e.g., cyber security, information assurance, cyber-physical systems, etc.); or
- Applied Informatics (e.g., healthcare, engineering, product data, digital archiving and curation, etc.).

Desired Qualifications

Ph.D. or advanced degree in Computer Science, Information Science, Computer Engineering, Industrial Engineering, Decision Sciences or other relevant science or engineering discipline. Past experience as a performer or principle investigator on federally-funded research projects. Experience in proposal authoring and capture of new business and research opportunities, as well as project management. Experience interpreting, negotiating, and managing government contracts and subcontracts. Strong candidates may have prior DoD civilian employment, Military Service or other civil or government employment. Successful applicants will have a distinguished track record of leadership, research execution and management, and publications.

About Drexel

Drexel is a comprehensive research university located in Philadelphia. Drexel is the 16th largest private university in the nation, enrolling over 21,000 students at its three campuses in Philadelphia and its new Center for Graduate Studies in Sacramento, CA. Drexel has a history of innovation in curriculum and programs, including its highly regarded cooperative education program and its use of technology to support the curriculum. In the past decade, Drexel has experienced unprecedented growth in academic programs, student body, research profile and faculty excellence, and has been recognized for its innovative changes in academic and campus life. Sponsored research expenditures at Drexel exceeded $100 million in 2008. Drexel’s strategic plan emphasizes the development of collaborative multidisciplinary research across the University, combining diverse faculty research interests and skills from Drexel’s comprehensive array of schools and colleges to tackle large problems in service to society.

Hiring Process

Nominations and applications may be sent with a cover letter, CV, brief statements describing your research, and contact information for at least four references. Only electronic submissions in PDF format will be considered. Review of applications will commence immediately and will continue until suitable candidates are identified. Drexel University is an Equal Opportunity/Affirmative Action Employer. The Provost Office is especially interested in qualified candidates who can contribute to the diversity and excellence of our academic community.

For more information go to www.drexeljobs.com

FX Palo Alto Laboratory (FXPAL)

President and Chief Operating Officer

FX Palo Alto Laboratory (FXPAL) is a research laboratory owned by Fuji Xerox Co. Ltd., a joint venture between Fujifilm Holdings and Xerox Corporations that provides document printing and business services to the Asia Pacific market. The FXPAL mission is to invent new technologies and in conjunction with Fuji Xerox (FX) transfer them into products. FXPAL has 35 permanent employees of which 18 are PhD research scientists. Research areas include multimedia computing, human computer interfaces, and communication & collaboration.

The President reports to the Chairman and Chief Executive Officer and oversees research, business development and technology transfer, finance, human resources, and IT operations. He/she will have a collegial and collaborative style with good personal interaction skills. He/she must be a visionary with the ability to develop and articulate research plans and provide strategic leadership for the laboratory. The Chairman and President interact with senior FX
Professional Opportunities

executives to provide advice on emerging technologies, business strategy, products, and operations.

Requirements: The successful candidate must have a PhD in Computer Science, Engineering or related field, 15 years of research and management experience, and a demonstrated record of research, technology transfer, and business and product development success. He/she will have a sensitivity to and personal adeptness dealing with other cultures. He/she will have demonstrated trustworthiness and decisive decision-making, and adaptability to organizational change.

To apply, please email your resume to: fxpalresumes@fxpal.com. We are an equal opportunity employer and value diversity in the workplace.

FX Palo Alto Laboratory, Inc.
Research Scientist
FX Palo Alto Laboratory, Inc. (FXPAL) provides multimedia and collaboration technology research for Fuji Xerox Co., Ltd., a joint venture between Xerox Corporation of America and Fujifilm of Japan.

The ideal candidate will have expertise in multimedia application, specifically in areas related to multimedia analysis, data mining, authoring, interaction, or retrieval, and must have knowledge in video, audio, image, and/or text analysis. Experience in large scale data applications or in building user-friendly systems is desirable.

Applicants must have a doctorate in Computer Science, or related field, strong programming skills, and excellent publication record. Candidate should also have interest in working on practical applications in a collaborative setting and be able to perform leading edge original research.

For more information about FXPAL, please visit our website at www.fxpal.com.

Interested candidate submit resume to fxpalresumes@fxpal.com.

George Mason University
Department of Computer Science
Assistant Professor Position

The Department of Computer Science in the Volgenau School of Engineering at George Mason University invites applications for a tenure-track faculty position at the rank of Assistant Professor beginning Fall 2013.

The position is in Software Engineering. While applicants with a research focus in any area of software engineering are invited to apply, of particular interest is research into robotics, autonomous and autonomic systems, and real-time embedded systems. Minimum qualifications for the position include a Ph.D. in Computer Science, Software Engineering, or a related field, demonstrated potential for excellence and productivity in research, and a commitment to high quality teaching.

The department has over 40 faculty members with wide-ranging research interests including artificial intelligence, algorithms, computational biology, computer graphics, computer vision, databases, data mining, human computer interaction, parallel and distributed systems, real-time systems, robotics, security, software engineering, and wireless and mobile computing. The CS department has over $6 Million in annual research funding and has 8 recipients of NSF’s prestigious CAREER awards.

The software engineering group at Mason is well established and well known. Software engineering research is conducted in model-based software engineering, software testing, software product lines, software architecture, real-time embedded software, autonomous and autonomic systems, software performance engineering, secure software engineering, and engineering of Web applications. The department offers a MS in Software Engineering and software engineering specializations within the PhD in Information Technology and BS in Applied Computer Science programs, in addition to PhD, MS, and BS programs in Computer Science. For more information on the department, visit our Web site: http://cs.gmu.edu/.

George Mason University is located in Fairfax in the Northern Virginia suburbs of Washington, DC. Northern Virginia is home to one of the largest concentrations of high-tech firms in the nation, providing excellent opportunities for interaction with government agencies and industry. George Mason has grown in leaps and bounds since its inception in 1972 and is currently ranked #1 up-and-coming university in the USA by US News and World Report.

For full consideration please submit application and application materials on-line at http://jobs.gmu.edu (position number F9660Z). To apply, you will need to provide a statement of professional goals including your perspective on teaching and research, a complete C.V. with publications, and the names of three references. Please upload your teaching and research statement using the link for Other Docs. The review of applications will begin on January 16, 2013 and will continue until the position is filled.

George Mason University is an equal opportunity employer encouraging diversity.

Georgetown University
Department of Computer Science
Tenure-track Assistant Professor

The Department of Computer Science at Georgetown University invites applications for a tenure-track faculty position at the junior level in any area. We are seeking candidates with a remarkable record of research who will be an exceptional teacher of undergraduate and graduate students.

Candidates should visit http://www.cs.georgetown.edu/hiring for instructions on submitting applications. Applications received by January 7, 2013, will receive full consideration for first-round interviews though later applications are welcome.

Georgetown University is an Equal Opportunity, Affirmative Action Employer fully dedicated to achieving a diverse faculty and staff.

Georgia Institute of Technology
College of Computing – School of Interactive Computing
Tenure Track Faculty Position

The School of Interactive Computing (IC) within the College of Computing at the Georgia Institute of Technology invites applications for tenure-track faculty positions. Applications at all levels of seniority will be considered. Applicants must have an outstanding record of research, a sincere commitment to teaching, and interest in engaging in substantive interdisciplinary research.

We are interested in faculty candidates in all areas of research within IC. Particular areas of interest this year include Information Visualization, Visual Analytics, Computer Science Education, Robotics, and Machine Learning.

The School of IC includes 35 faculty members and 120 graduate students working in a wide range of research areas relating to the interface of computing to the world. The School is affiliated with the GVU Center, the Robotics and Intelligent Machines (RIM@GT) Center and the Center for Music Technology. Our degree programs include the College-wide Computer Science PhD., a Ph.D. in Human-Centered Computing, and a Ph.D. program in Robotics, joint with other schools on campus. Masters programs include Computer Science and Human-Computer Interaction. For more information visit http://ic.gatech.edu.

Application materials should be submitted online via https://academicjobsonline.org/ajo/jobs/2298. Questions regarding the status of an application can be addressed to recruiting-ic@cc.gatech.edu.

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

Reviews of submitted applications begin December 15, 2012. Full consideration will be given to those who apply by January 15, 2013. We expect most hiring decisions will be made by May 1, 2013.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer.

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

Georgia Southern University
Chair and Professor of Computer Sciences

Georgia Southern University’s Department of Computer Sciences in the Allen E. Paulson College of Engineering and Information Technology invites applications for Chair and Professor of Computer Sciences. The position requires teaching, service, and research responsibilities as well as a terminal degree.

The full text advertisement, including information about the department, faculty, and the complete position announcement with all qualifications and application instructions, is available at: http://ceit.georgiasouthern.edu/facstaff/employment

Screening of applications begins November 26, 2012, and continues until the position is filled.

Georgia is an open records state. Georgia Southern is an AA/EO institution. Individuals who need reasonable accommodations under the ADA to participate in the search process should contact the Associate Provost.

Hobart and William Smith Colleges
Mathematics and Computer Science
Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at Hobart and William Smith Colleges invites applications for a full-time, tenure-track position in Computer Science at the Assistant Professor level, beginning Fall 2013. Desirable fields include computer architecture, compilers, operating systems, and networking, but all fields will be considered. Evidence of research potential and a strong commitment to teaching are essential. The position requires teaching a full range of undergraduate CS courses. Participation in the Colleges’ general curriculum and mentoring of students in research are strongly encouraged. Experience with and/or interest in working in a multicultural environment are highly desirable.

For complete information and application instructions, please visit: http://www.hws.edu/offices/hr/employment/fac_2013_MathandCS_TT.aspx

Review of applications begins 1/15/2013 and continues until the position is filled.

Hobart and William Smith Colleges are committed to attracting and supporting faculty and staff that fully represent the racial, ethnic, and cultural diversity of the nation and actively seek applications from underrepresented groups. The Colleges do not discriminate on the basis of race, color, religion, sex, marital status, national origin, age, disability, veteran’s status, sexual orientation, gender identity and expression or any other protected status.

Iowa State University
Assistant or Associate Professor
Department of Computer Science and Department of Statistics

Iowa State University seeks applicants for assistant or associate professor in big data analytics. This is a tenure-track position with joint appointments in both the computer science and statistics departments. The tenure home department is negotiable. The successful candidate will conduct research in big data analytics; publish in top tier venues in both machine learning and statistics; work with other researchers throughout campus who are involved in data driven discovery; secure research funding; and instruct undergraduate and graduate students.

Iowa State’s doctoral program in statistics is ranked as one of the top programs in the country, and Snedecor Hall, home of the department, has recently undergone a $9 million renovation. The computer science department offers nationally and internationally recognized research and educational programs and both departments play a central role in a number of nationally recognized interdisciplinary programs.

Iowa State University is the nation’s most student-centered public research university. One hundred majors, 800 student organizations, learning communities, undergraduate research opportunities, study abroad programs, and faculty committed to the land-grant principle of knowledge with practice has resulted in record enrollment, donations, and sponsored programs. Iowa State is a member of the prestigious Association of American Universities and is ranked as one of the top 50 public universities in the nation by U.S. News and World Report. The university is located in Ames, Iowa, a community ranked as one of the top 10 places to live in the United States by Money magazine. See www.iastate.edu/about.

Qualifications: Ph.D. in computer science, statistics, or a closely related field. In addition, applicants for associate professor must meet university standards for appointment at this rank, including evidence of a substantial body of high quality publications and successful grant activity.

Preferred Qualifications: Demonstrated potential for outstanding research in big data analytics; experience that demonstrates the following abilities: to publish in top tier venues in both machine learning and statistics and to secure research funding; and also experience that demonstrates outstanding undergraduate and graduate instruction and supervising research of graduate and undergraduate students.

Iowa State University is an equal opportunity and affirmative action employer committed to excellence through diversity and strongly encourages applications from all qualified applicants, including women and minorities. Iowa State University is responsive to the reasonable accommodations under the ADA to all qualified individuals with disabilities. Individuals who need reasonable accommodations under the ADA to participate in the search process should contact Teresa Stukey, Human Resources Coordinator Email: informhr@iupui.edu.

To ensure full consideration, please submit your application materials by January 15, 2013. However, the position will remain open until filled.

The Indiana University School of Informatics
Department Chair, BioHealth Informatics

The Indiana University School of Informatics invites applications for an appointment as the inaugural Chair of its new (as of July 1, 2013) Department of BioHealth Informatics. The position is tenure eligible and will begin August 1, 2013 at the Indiana University–Purdue University Indianapolis (IUPUI) campus. An exceptional leader is being sought to join our new, fast-growing, dynamic department. This position will oversee all faculty, students and managerial aspects of the Department of BioHealth Informatics.

Qualifications:

• Ph.D. in an area such as bioinformatics, health informatics, biochemistry and molecular biology, biophysics, computational biology, nursing, public health, computer science, or related fields
• Demonstrated record of outstanding research productivity and high scholarly impact
• Demonstrated ability to secure external research funding
• Proven ability to exhibit effective teaching at the undergraduate and graduate level
• A strong commitment to teaching, mentoring, interdisciplinary research, and cultural diversity
• Superior leadership and administrative ability

The Department of BioHealth Informatics is home to a dynamic and interdisciplinary group of 15 faculty members and over 300 students across its Health Information Administration, Bioinformatics and Health Informatics programs. To see the full job announcement and for additional information about the Indiana University School of Informatics, including degrees, course descriptions, plans of study and faculty research, please see http://www.informatics.iupui.edu.

Submit PDF files containing (1) curriculum vita, (2) cover letter explaining your interest in this position, (3) research statement and philosophy of teaching, (4) a vision statement for the department, and (5) the names and contact information of three references to: informhr@iupui.edu.

To ensure full consideration, please submit your application materials by January 15, 2013. However, the position will remain open until filled.
Professional Opportunities

The School of Informatics is eager to consider applications from women and people of color. Indiana University is an Affirmative Action/Equal Opportunity Employer.

KAIST (Korea Advanced Institute of Science & Technology)

Computer Science Department
Tenure-Track Faculty Position, Computer Science, KAIST

The Department of Computer Science at KAIST (Korea Advanced Institute of Science & Technology) seeks outstanding tenure-track faculty in all areas of computer science at the assistant professor level. Exceptional candidates at the associate and full professor levels will also be considered. Applicants must demonstrate superior research and scholarship potential as well as teaching ability. A PhD in Computer Science or a related area is required. Candidates should expect to receive their PhD before Fall, 2013. Successful candidates are expected to pursue an active research program and contribute significantly to the teaching programs of the department. To ensure full consideration, candidates should submit all application materials by January 15, 2013, but applications will be accepted until the position is filled. Electronic applications, including a curriculum vita with contact information for three references, a research statement, and a teaching statement with a cover letter, should be submitted online at: http://cs.kaist.ac.kr/facultysearch

Questions should be directed to facultysearch@cs.kaist.ac.kr.

La Salle University

Department of Mathematics and Computer Science
Assistant Professor

We invite applications for a tenure-track Assistant Professor position in our undergraduate Computer Science and Information Technology programs and our on-line graduate program in Information Technology Leadership, beginning in the fall of 2013. A Ph.D. in Computer Science or a related field is required, and industry or network experience will be considered an asset. Candidates will be expected to teach courses in applied computer networks, network design, and network administration and to advise students in our undergraduate Information Technology program. Qualified candidates who possess a master’s degree may be considered for this position on a non-tenure-track basis.

Send cover letter, curriculum vita, statement of teaching, statement of research, and three letters of recommendation all in PDF format to Jonathan C. Knappenberger, Ph.D., Associate Professor and Chair, Department of Mathematics and Computer Science, La Salle University, Philadelphia, PA, cscsearch@lipsalle.edu. The deadline for applications is January 15, 2013. This position offering is subject to final budget approval.

La Salle University is a Roman Catholic university in the tradition of the La Salle Christian Brothers and welcomes applicants from all backgrounds who can contribute to its unique educational mission.

For a complete mission statement, please visit our Web site at www.lasalle.edu.

AA/EOE

Loyola University Chicago

Department of Computer Science
Assistant Professor of Computer Science

We invite applications for a full-time, tenure-track position at the rank of Assistant Professor beginning fall 2013. The department comprises eight full-time faculty members and two joint appointees and maintains an active research program with recent funding from NSF, NEH, and other sources. For more information, please visit www.cs.luc.edu.

Faculty Positions in Computational Bioscience Research Center (CBRC) of the Computer, Electrical and Mathematical Sciences and Engineering Division at King Abdullah University of Science and Technology (KAUST)

The Computational Bioscience Research Center (CBRC) at King Abdullah University of Science and Technology (KAUST) invites applications for the faculty positions at all levels (Full, Associate, and Assistant Professor).

CBRC, http://cbrc.kaust.edu.sa, is part of the Computer, Electrical and Mathematical Sciences and Engineering Division (CEMSE) (http://cemse.kaust.edu.sa/). CBRC develops novel enabling bioinformatics methods and applies them in life science research. The activities of the Center are both in development of new methods and algorithms for computational biology and bioinformatics, their implementation on high performance computing platforms, and, their application in systems biology, microbiology, biotechnology and related fields. The focus of the CBRC is on modeling the key processes in the living cell so as to be able to explore the way cells react to different challenges. Bioinformatics research is motivated by and complemented with CBRC’s internal and collaboratively conducted experimental work that helps refine and validate in silico-derived hypotheses potentially useful for various applications.

We are interested in applicants with the background primarily in mathematics, computer science, and engineering, though excellent candidates with life science backgrounds will be considered. The research focus of the candidates should be in one or more domains spanning computational biology, bioinformatics, systems biology, genomics, data integration, mathematical modeling, data mining, and artificial intelligence. Teaching interests may fall within the broad scope of the CEMSE division and, potentially, within Biological and Environmental Sciences and Engineering Division (BEESE, http://bese.kaust.edu.sa/).

To apply for this position, please send a single PDF or word file containing: a cover letter, curriculum vitae, complete publication list, research plan, teaching statement, and contact information of four references to CBRC.recruitment@kaust.edu.sa with attention to Professor Vladimir Bajic.

Applications received by January 15, 2013 will receive full consideration and positions will remain open until filled.

About KAUST

King Abdullah University of Science and Technology (KAUST) is an international, graduate research university dedicated to advancing science and technology through interdisciplinary research, education, and innovation. Located on the shores of the Red Sea in Saudi Arabia, KAUST offers superb research facilities, generous assured research funding, and internationally competitive salaries, attracting top international faculty, scientists, engineers, and students to conduct fundamental and goal-oriented research to address the world’s pressing scientific and technological challenges related to the sustainability of water, food, energy, and the environment.

www.kaust.edu.sa
Professional Opportunities

Applicants must clearly demonstrate the potential for excellence in research and teaching and possess a record of (or clear potential for) distinguished scholarship, grant-funded research, and student mentorship. We encourage candidates in all areas of computer science to apply, especially those with strong background in user-centric computing, including but not limited to human-computer interaction, computer graphics, simulation, and visualization. Candidates with interdisciplinary backgrounds are strongly encouraged to apply.

Application Instructions

Please view the application instructions and apply on-line at www.careers.luc.edu/applicants/Central?quickFind=55489

Review of applications will begin January 2, 2013, and continue until the position is filled.

Questions about the application process may be directed to: job2013@cs.luc.edu

LUC is an AA/EOE with a strong commitment to hiring our mission and diversifying our faculty.

Electrical Engineering Faculty Positions at King Abdullah University of Science and Technology

The Electrical Engineering (EE) Program at King Abdullah University of Science and Technology (KAUST) invites applications for faculty positions at all ranks (Assistant, Associate, and Full Professors) beginning in the fall of 2013.

The EE program currently has 13 full time faculty members and is recognized for its vibrant research programs and collaborative environment. EE research is strongly supported by KAUST’s international research collaboration networks and KAUST’s advanced research facilities, including the Nanofabrication, Imaging, and Characterization Lab and the Supercomputing Core Facilities. More information about the EE academic programs and research activities are available at http://ee.kaust.edu.sa.

The disciplines of EE critically support KAUST’s interdisciplinary research initiatives in water, food, energy, and the environment. There are particularly compelling opportunities to further develop and strengthen synergies with the University’s Geometric Modeling and Scientific Visualization Research Center and Computational BioScience Research Center. Priority will be given to candidates with research interests in areas that may enhance and complement the aforementioned centers, including, but not limited to:

• Data and Simulations: Application of signal processing and information theory to bioinformatics and biological data analysis
• Visualization and Imaging: Emphasis on Scientific Data and Image Understanding, and Visualization including computer vision, machine learning for computer vision, large-scale image understanding, computational photography, scientific data understanding and visualization, bio-image analysis, and seismic image analysis

All candidates should have the ability to pursue a high impact research program and have a commitment to teaching at the graduate level. Applicants should apply by visiting the following website ee.kaust.edu.sa (employment page). Here you will be required to complete a brief application form and upload a single PDF file including a complete curriculum vitae with a list of publications, a research plan, a statement of teaching interests, and the names and contact information for at least three references for an Assistant Professor position or a list with the names and affiliation of potential referees for Associate Professor and Full Professor positions. Applications received by January 15, 2013 will receive full consideration and positions will remain open until filled.

About KAUST

King Abdullah University of Science and Technology (KAUST) is an international, graduate research university dedicated to advancing science and technology through interdisciplinary research, education, and strategic collaborations with leading centers around the world. Located on the shores of the Red Sea in Saudi Arabia, KAUST offers superb research facilities, generous assured research funding, and internationally competitive salaries, attracting top international faculty, scientists, engineers, and students to conduct fundamental and goal-oriented research to address the world’s pressing scientific and technological challenges.

www.kaust.edu.sa

Applications from women and minority group members are especially encouraged.

Max Planck Institute for Software Systems

Tenure-Track and Tenured Faculty Positions

Applications are invited for tenure-track and tenured faculty positions in all areas related to the study, design, and engineering of software systems.

These areas include, but are not limited to, data and information management, programming systems, software verification, parallel, distributed and networked systems, and embedded systems, as well as cross-cutting areas like security, machine learning, usability, and social aspects of software systems. A doctorate in computer science or related areas and an outstanding research record are required. Successful candidates are expected to build a team and pursue a highly visible research agenda, both independently and in collaboration with other groups. Senior candidates must have demonstrated leadership abilities and recognized international stature.

MPI-SWS, founded in 2005, is part of a network of eighty Max Planck Institutes, Germany’s premier basic research facilities. MPIs have an established record of world-class, foundational research in the fields of medicine, biology, chemistry, physics, technology and humanities. Since 1948, MPI researchers have won 17 Nobel prizes. MPI-SWS aspires to meet the highest standards of excellence and international recognition with its research in software systems.

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

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

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

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

MPI-SWS currently has 11 tenured and tenure-track faculty and 40 doctoral and post-doctoral researchers. The institute is funded to support 17 faculty and up to 100 doctoral and post-doctoral positions. Additional growth through outside funding is possible. We maintain an open, international and diverse work environment and seek applications from outstanding researchers regardless of national origin or citizenship. The working language is English; knowledge of the German language is not required for a successful career at the institute.
Professional Opportunities

The institute is located in Kaiserslautern and Saarbruecken, in the tri-border area of Germany, France and Luxembourg. The area offers a high standard of living, beautiful surroundings and easy access to major metropolitan areas in the center of Europe, as well as a stimulating, competitive and collaborative work environment. In immediate proximity are the MPI for Informatics, Saarland University, the Technical University of Kaiserslautern, the German Center for Artificial Intelligence (DFKI), and the Fraunhofer Institutes for Experimental Software Engineering and for Industrial Mathematics.

Qualified candidates should apply online at http://www.mpi-sws.org/application. The review of applications will begin on January 10, 2013, and applicants are strongly encouraged to apply by that date; however, applications will continue to be accepted through January 2013.

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

McGill University

School of Computer Science
Assistant Professor, Data Mining & Assistant Professor, Theoretical Computation

The School of Computer Science at McGill University invites applications for two tenure-track positions at the assistant professor level, to begin August 1, 2013. One of these is in the area of data mining with particular emphasis on “big data,” text analysis and unstructured data. The other is targeted at theoretical computation with an emphasis on algorithms, computational geometry and/or discrete optimization.

Complete applications, including a curriculum vitae, a list of publications with copies of at least two sample reprints, a research statement as well as a teaching statement, and the names and email addresses of three references should be sent as one or more PDF files to either theory@cs.mcgill.ca or datamining@cs.mcgill.ca accordingly.

Applications will be reviewed as soon as they are received. Applications received before January 18th, 2013 are assured full consideration. The School of Computer Science offers a collegial environment and world-class research opportunities. McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities and others who may contribute to further diversification. All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Michigan Technological University

Department of Electrical and Computer Engineering
Assistant, Associate, or full Professor in Computer Engineering

Michigan Technological University’s Department of Electrical and Computer Engineering invites applications from exceptional candidates at all levels for a faculty position in computer engineering to begin August 2013. The Department seeks forward-looking individuals who will develop vigorous research and graduate education programs, and who are skilled at translating new and exciting discoveries into effective undergraduate teaching. A PhD in computer engineering or a related field is required. Interest areas include but are not limited to:

• Real-time information processing
• Wireless networks and network security

Review of applications will begin immediately, and continue until the position is filled. Full consideration will be given to applications received by January 11, 2013. Interested individuals must submit a cover letter, curriculum vitae, statement of teaching and research interests, and contact information for three references. Apply online at http://www.jobs.mtu.edu/postings/664.

The successful candidate will be invited to participate in the Center for Computer Systems Research, a center exploring integrative computer engineering research in the Departments of Electrical and Computer Engineering and Computer Science. Michigan Technological University is located in Houghton, MI, offering a small-town environment with outstanding four-season recreational activities and world-class cultural events in a beautiful setting. The University enrolls over 7,000 students; the ECE Department presently has 25 tenured/tenure-track faculty members, 569 undergraduates and 214 graduate students. The Department maintains outstanding laboratory facilities for both research and instruction. Please visit http://www.ece.mtu.edu for more information.

Michigan Technological University is one of four major research universities in the state and the only one in the Upper Peninsula. Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM. The university is also in its sixth year of a strategic faculty hiring initiative (see www.mtu.edu/csfh). Michigan Tech also has a Dual Career Program, which assists departments with partner orientation to the university and community and identification of possible positions for partners (see www.dual.mtu.edu).

Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer.

Michigan Technological University

Department of Computer Science
Tenure-Track Faculty Position

Applications are invited for a tenure-track faculty position at the Assistant Professor level beginning August 2013. Candidates are expected to have a Ph.D. in Computer Science or a closely related field and to demonstrate potential for excellence in teaching and research. We seek applicants who can play a role in furthering one or both of the following focus areas: data-intensive computing and cybersecurity.

Further information on this position can be found at: www.mtu.edu/cs/department/employment/faculty-staff

Missouri University of Science and Technology

Computer Science
Department Chair

The Department of Computer Science at the Missouri University of Science and Technology (S&T) invites applications for the position of Department Chair starting Fall 2013. The successful candidate will assume a leadership role in the department to strengthen and expand the department’s research and teaching missions. Candidates must, by the date of appointment, have the qualifications and standing to be appointed as a tenured full professor. The candidate should have a strong record of research and teaching at a university, but candidates from industry with a strong research record coupled with academic and administrative experience are encouraged to apply.

The department’s current research strengths are in software engineering, mobile and distributed systems, cyber security and information assurance, social-cyber-physical systems and critical infrastructure protection, computational intelligence, pervasive computing, and wireless and sensor networks. Recent funding sources include NSF, NSA, ARL, AFRL, S&ST, Sandia National Laboratories, as well as the U.S. Departments of Energy, Defense, and Education. The department’s visions and strategic plan, activities, and research well as required and desired Attributes, Skills, and Characteristics are detailed further on our web site: http://cs.mst.edu.

The department has 18 full-time faculty lines as well as some joint appointments and adjunct faculty, and grants BS, MS and Ph.D. degrees as well as graduate certificates and a minor. The program is ABET accredited. As of fall semester 2012, the department has over 350 BS, 50 MS, and 30 Ph.D. students. The
Professional Opportunities

Northeastern University

PROFESSOR AND CHAIR
College of Engineering

Northeastern University College of Engineering invites applications and nominations for the position of Chair of the Electrical and Computer Engineering Department. The department is a large, successful and growing academic enterprise that includes 47 full-time faculty with over $13 million in annual research funding, over 450 MS and Ph.D. students and more than 400 undergraduates. The department hosts several federally-funded research centers in diverse fields including sensing and imaging, energy transmission, microwave materials and information assurance. The department is committed to innovative curricular development at all levels and has a top-ranked cooperative education program.

Qualifications:
A doctoral degree in Electrical and Computer Engineering or a closely related field is required. Previous experience managing a federally-funded research group or center, or similar significant administrative experience, is desirable.

Applicants should submit a detailed Curriculum Vitae, three professional references and a strategic vision statement.

To apply, visit: http://apprkrv.com/2993995

For more information contact: Prof. Miriam Leeser; Email: mel@coe.neu.edu; Phone: 617-373-3814.

EDE

Mount Saint Mary College

Department of Computer Science
Faculty Position

The Division of Mathematics and Information Technology invites applications for a tenure track faculty position in the area of Software Engineering starting August 16, 2013. Software engineering candidates with research experience in requirements engineering are especially encouraged to apply.

Successful candidate must have a strong commitment to academic and research excellence, and an outstanding research record commensurate with the expectations of a major research university. Required credentials include a doctorate in Computer Science or a related field. While the department expects to hire at the Assistant Professor level, candidates with exceptional research records are encouraged to apply for a senior position. The department is one of the largest and oldest in the country. It is part of NCSU’s College of Engineering. The department’s research expenditures and recognition have been growing steadily. For example, we have one of the largest concentrations in the country of prestigious NSF Early Career Award winners (total of 21).

NCSU is located in Raleigh, the capital of North Carolina, which forms one vertex of the world-famous Research Triangle Park (RTP). RTP is an innovative academic enterprise that includes 47 full-time faculty with over $13 million in annual research funding, over 450 MS and Ph.D. students and more than 400 undergraduates. The department hosts several federally-funded research centers in diverse fields including sensing and imaging, energy transmission, microwave materials and information assurance. The department is committed to innovative curricular development at all levels and has a top-ranked cooperative education program.

Qualifications:
A doctoral degree in Electrical and Computer Engineering or a closely related field is required. Previous experience managing a federally-funded research group or center, or similar significant administrative experience, is desirable.

Applicants should submit a detailed Curriculum Vitae, three professional references and a strategic vision statement.

To apply, visit: http://apprkrv.com/2993995

For more information contact: Prof. Miriam Leeser; Email: mel@coe.neu.edu; Phone: 617-373-3814.

EDE
Professional Opportunities

environment, both as a metropolitan area with one of the most diverse industrial bases in the world, and as a center of excellence promoting technology and science. The Research Triangle area is routinely recognized in nationwide surveys as one of the best places to live in the U.S. We enjoy outstanding public schools, affordable housing, and great weather, all in the proximity to the mountains and the seashore.

Applications will be reviewed as they are received. The positions will remain open until suitable candidates are identified. Applicants should submit the following materials online at http://jobs.ncsu.edu (reference position number 1092) cover letter, curriculum vitae, research statement, teaching statement, and names and complete contact information of four references, including email addresses and phone numbers. Candidates can obtain information about the department and its research programs, as well as more detail about the position advertised here at http://www.csc.ncsu.edu. Inquiries may be sent via email to facultyhire@csc.ncsu.edu.

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

Northeastern University, Boston, Massachusetts

Three Tenure-Track Faculty Positions

The College of Computer and Information Science invites applications for three tenure-track faculty positions, beginning in Fall 2013. Applicants at all ranks will be considered. A PhD in Computer Science, Information Science or a related field is required.

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

The College maintains 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 41, and offers a broad array of educational opportunities to students. In addition to Bachelor’s, Master’s, and PhD programs in the computing discipline, the College offers interdisciplinary programs that combine computing with an important application domain. Eleven faculty members have joint appointments with other academic departments, including Electrical and Computer Engineering, Art and Design, Health Sciences, Physics, and Political Science. The College has 615 undergraduates, 597 Masters, and 99 Ph.D. students.

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

Northeastern University is located on the Avenue of the Arts in Boston’s historic Back Bay. The College...
Professional Opportunities

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 website: https://neu.peopleadmin.com/postings/search

Screening of applications begins immediately. To guarantee full consideration, application materials should be received by December 1, 2012. However, applications will be accepted until the search is completed.

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

Northern Arizona University

Applied Linguistics in the Department of English

Post-doctoral Scholar

Applications are invited for a full-time postdoctoral position in applied linguistics through the Department of English at Northern Arizona University, Flagstaff. This project will focus on extracting intonation features applicable to automated scoring systems and will develop a program to measure the degree of nativeness of accented speech. The project's goal is to develop a new program that will interface with existing, fluency-based speech recognition programs and possibly lead to a patent application. This new position has guaranteed funding for two calendar years commencing on the date of appointment, with the intention of securing continued funding through an NSF grant.

Application Instructions

For the complete job announcements and directions on how to apply for these openings, visit: https://www.peoplesoft.nau.edu/psp/ps90prta/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_HRMBGPROD&Action=A&SiteId=1

Ohio University

School of Electrical Engineering and Computer Science

Stocker Visiting Professor

The School of Electrical Engineering and Computer Science (EECS) at Ohio University (OU) invites applications for a Visiting Professor position (two-year term). Rank and salary will be commensurate with qualifications. Incumbents will provide additional depth and breadth for research and education in the school, broaden horizons of our students and catalyze new collaborations among the faculty. The successful candidate will involve students at the PhD, MS, and BS level, contribute to peer-reviewed publications and help to enhance the reputation of the School, College, and University at the national and international level. Candidates must have a Doctoral degree in a relevant field, established record of high-quality research and scholarship, and collegiate teaching experience. The position provides a competitive salary plus excellent benefits including educational benefits for employee and eligible dependents.

Position will remain open until filled; for full consideration please apply by January 10th, 2013. For details and to apply, go to: http://www.ohiouuniversityjobs.com/postings/4634

Ohio University is committed to creating a respectful and inclusive educational and workplace environment. Ohio University is an equal access/equal opportunity and affirmative action institution.

Purdue University

Departments of Computer and Information Technology and Computer Graphics Technology

Assistant/Associate Professor


The candidate will be expected to develop a collaborative internationally-recognized research program, train graduate students, demonstrate excellence in teaching, and contribute to the departmental mission. Applicants should have a Ph.D. degree in Computer Science or related areas and a strong publication record. Evidence of experience or potential for grantsmanship and teaching experience is important.

Submit applications as a single PDF file containing a cover letter, curriculum vita, two-page summary of research interests, and a one-page teaching statement. Applications along with three letters of recommendation must be submitted electronically to haan@purdue.edu. Screening of applications will begin October 1, 2012 and will continue until the position is filled. A background check is required for employment in this position. Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer fully committed to achieving a diverse workforce.

Purdue University, Indiana

Department of Computer and Information Technology

Tenure Track Position

The Department of Computer and Information Technology at Purdue University, Indiana, has a full-time opening at its Columbus, Indiana Campus, beginning August 2013. This position will be filled as a tenure track Assistant or Associate Professor, depending on qualifications.

More information can be found at http://www.tech.purdue.edu/columbus/ and http://www.purdue.edu/ethics/oie/OfficeofInstitutionalEquity202678-2012.html. All applications should be electronically submitted to kellevs@purdue.edu.

A background check will be required for employment in this position. Purdue University is an equal opportunity, equal access, affirmative action employer fully committed to achieving a diverse workforce.
Professional Opportunities

Purdue University – West Lafayette

Department of Computer and Information Technology
Multiple Tenure/Tenure-Track Faculty Openings

The CIT Department resides in the College of Technology and offers an ABET-accredited undergraduate program in Information Technology and Masters’ programs. It also participates in a college-wide Ph.D. program. The department has 27 full time faculty in its West Lafayette campus with research preeminence in information security, homeland security, and cyberforensics; scientific, high-performance and distributed computing; applied artificial intelligence, and natural language processing. Additional information about the department can be found at http://www.tech.purdue.edu/CIT.

Faculty Positions in CIT

Outstanding candidates at the Assistant or Associate Professor level, for all areas of Computer Science and Information Technology, are invited to apply. All areas of specialization will be considered, but we have a special interest in mobile and wireless networking, information security, software development, cloud computing, data mining, and complex networks.

Candidates must have a Ph.D. degree in computer science, information technology, or a related area with outstanding academic credentials which clearly demonstrate the ability to conduct successful research, teaching and engagement.

Application Instructions

Applications should include a cover letter, complete resume, research and teaching statements and the names and addresses of three references.

Copies of key publications may also be submitted to CITsearch@purdue.edu. Screening of applications will begin October 1, 2012 and will continue until the positions are filled. A background check is required for employment in this position.

Purdue University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce.

Qatar University

Department of Computer Science
Postdoctoral Researcher

Researchers from Qatar University, Carnegie Mellon Qatar, and SUNY Binghamton are seeking a postdoc who wants to help build a next generation hypervisor which maintains its integrity against a variety of modern attacks. We’re seeking expertise in operating systems, virtualization, architecture, and security. http://www.vsecurity.info/postdoc

Reed College

Mathematics Department
Tenure-Track Position in Computer Science/Computational Biology

The Mathematics Department at Reed College invites applications for a tenure-track faculty position in computer science with research focus in computational biology, to begin in the fall of 2013. We seek applicants committed to building the department’s computer science program – teaching and expanding its core coursework – and to developing an undergraduate research program and coursework in computational biology.

Reed is a distinguished liberal arts college with 1400 students that offers a demanding academic program to bright and dedicated undergraduates. Faculty members teach five semester courses per year (usually two course preparations per semester) and supervise senior theses (required of all students). Information can be found at http://academic.reed.edu/math/searches/cssearch.html.

Applications must be submitted through the MathJobs.org website and should include a cover letter, curriculum vitae, teaching statement, research statement, and three letters of recommendation. The cover letter should address how the applicant's teaching and scholarship are suited to the liberal arts college environment. All applicants are invited to address how their teaching, scholarship, mentoring, community service, or other activities could support Reed’s commitment to diversity and inclusion (see http://www.reed.edu/diversity/). Applications will be accepted until the position is filled, but they should be received by January 10, 2013, to guarantee full consideration. The applicant should have a Ph.D. in computer science by the time of their appointment.

The Reed community believes that cultural diversity is essential to the excellence of our academic program. An equal opportunity employer, Reed College encourages applications from members of underrepresented groups.

Any questions may be directed to the search committee chair, Jim Fix, jimfix@reed.edu.

Rutgers University

Department of Computer Science and the Department of Statistics
Tenure-Track Position

The Department of Computer Science and the Department of Statistics and Biostatistics at Rutgers University are seeking applicants for a tenure-track Assistant Professor position starting September 2013. We are particularly interested in candidates with research and teaching interests in “big data” – problems concerning data whose scale and diversity challenge the theory and practice of computer science and/or statistics. Candidates conducting their research in domains such as biomedical informatics, business, climate and environment, engineering, imaging and multimedia, and social analytics are especially encouraged to apply.

Applicants for this position must, at minimum, be in the process of completing a Ph.D. dissertation in Computer Science, Statistics, or a closely related field. Hired candidates who have not defended their Ph.D. by September 2013 will be hired at the rank of Instructor, and must complete the Ph.D. by December 31, 2013 to be eligible for tenure-track title retroactive to start date.

Applicants should go to http://www.cs.rutgers.edu/employment/ and submit their curriculum vitae, a research statement addressing both past work and future plans, a teaching statement, and contact information for at least three references who will provide letters of recommendation.

For questions and issues, please contact: Mary Hoffman

Computer Science Department

Rutgers University

110 Frelinghuysen Rd

Piscataway, NJ 08854

mth@cs.rutgers.edu

848 445-7062

Applications should be received by January 18, 2013 for full consideration.

Rutgers subscribes to the value of academic diversity and encourages applications from individuals with varied experiences, perspectives, and backgrounds. Females, minorities, dual-career couples, and persons with disabilities are encouraged to apply.

Rutgers is an affirmative action/equal opportunity employer.

Southern Methodist University Position #50049

Department of Computer Science and Engineering
Faculty Position in Computer Science and Engineering

The Department of Computer Science and Engineering in the Lyle School of Engineering at Southern Methodist University invites applications for a faculty position in computer science and engineering beginning Fall 2013. Individuals with experience and research interests in all areas of computer science and engineering are encouraged to apply. Priority will be given to individuals with expertise and research interest in data mining, informatics, computer systems and networking, and related areas. The search is focused at the tenure-track assistant professor level. The successful candidates must have or expect to have a Ph.D. in computer science, computer engineering, or a closely related area by date of hire. Successful applicants will demonstrate a deep commitment to research activity in computer science and engineering and a strong record of excellence in teaching.
Professional Opportunities

The Dallas/Fort Worth area, one of the top three high-tech industrial centers in the country, has the largest concentration of telecommunications corporations in the US, providing abundant opportunities for industrial research cooperation and consulting. Dallas/Fort Worth is a multifaceted business and high-tech community, offering exceptional museums, diverse cultural attractions, and a vibrant economy.

The CSE Department resides within the Bobby B. Lyle School of Engineering and offers BS, MS, and Ph.D. degrees in Computer Engineering and Computer Science, the Doctor of Engineering in software engineering, and the MS in Security Engineering and Software Engineering. The department currently has 15 faculty members with research concentrations in security engineering, software engineering, computer networks, telecommunications, data mining, database systems, VLSI and digital systems, and computer arithmetic. Additional information may be found at: www.lyle.smu.edu/cse.

To receive full consideration, interested individuals should send a complete resume and names of three professional references to:

Science, Attn: Kimberley Osburn, Rensselaer Polytechnic Institute, 110 8th Street, Troy, NY 12180,

please submit a letter of interest, curriculum vitae, and the names and contact information for five (5) pro-

taining the academic, operational, and fiscal activities of the department.

Department Head, the incumbent will also provide leadership and long-term strategic planning while direct-

ing students, engage in scholarly research, and generate significant research funding. If selected to serve as

As a Professor with tenure, the incumbent will teach undergraduate and graduate courses, supervise gradu-

ate students, engage in scholarly research, and generate significant research funding. If selected to serve as

To be considered for Department Head, applicants must also possess significant, sustained successful admin-

istrative experience and have demonstrated the ability to mentor junior faculty in their goals towards estab-

lishing robust, internationally prominent sponsored-research programs.

As a Professor with tenure, the incumbent will teach undergraduate and graduate courses, supervise gradu-

ate students, engage in scholarly research, and generate significant research funding. If selected to serve as

Department Head, the incumbent will also provide leadership and long-term strategic planning while direct-

ing the academic, operational, and fiscal activities of the department.

Screening of applications will begin immediately and will continue until the position is filled. Hiring is con-
tingent upon the satisfactory completion of a background check.

SMU will not discriminate on the basis of race, color, religion, national origin, sex, age, disability, or veteran status. SMU is committed to nondiscrimination on the basis of sexual orientation.

Southwest Baptist University

Computer and Information Sciences

Assistant/Associate Professor of Computer and Information Sciences

Southwest Baptist University invites applications for a full-time tenure-track faculty position in the Department of Computer and Information Sciences beginning in the fall of 2013. Applicants should hold or be nearing the completion of a Ph.D. in computer science, computer engineering, or closely related discipline. Successful candidates must be able to demonstrate excellence in teaching, and have a desire to integrate the Christian faith with the discipline of computer science.

Additional information may be obtained at:

http://www.sbu.edu/hr/employmentfaculty.htm

Texas A&M University-Corpus Christi

Assistant Professors of Geospatial Computer Science

Texas A&M University-Corpus Christi is a learning centered institution. TAMUCC (The Island University) is located on its own island surrounded by the water of Corpus Christi and Oso bays. Our Hispanic Serving Institution status provides a foundation to attain significant impacts for improving the educational attainment of our regional students, and our strategic location on the Gulf of Mexico and on the cultural border with Latin America places the Island University in perfect position to help realize its natural and international prominence goals.

TAMUCC invites applications for Assistant Professors of Geospatial Computer Science for Fall 2013. The College of Science and Engineering announces the newly created School of Engineering & Computing Sciences (ENCS) which prepares students to pursue productive careers and advanced degrees in engineering, computer science, or geographic information sciences.
Professional Opportunities

The following are the minimum qualifications for the positions:

• An earned Ph.D. in Computer Science or a closely related field,
• Established record of external funding that supports the candidate’s graduate and research program commensurate with the candidate’s level,
• Record of original research, with significant publications in archival journals commensurate with the candidate’s level,
• Demonstrated excellence in teaching at the undergraduate and graduate levels, and in supervising graduate and undergraduate student researchers in computer science; candidates for assistant professor position should show their teaching potential, and
• Ability to communicate effectively with an ethnically and culturally diverse campus community.

The basic job requirements include:

• Teaching 4 courses a year,
• Establishing and directing an active and externally funded research program,
• Publishing research results in archival journals with high impacts,
• Advising Geospatial Computer Science graduate students,
• Assisting with recruiting graduate students,
• Supporting Geospatial Computer Science Ph.D. Program, and
• Representing the program in national and international geospatial computing functions.

SALARY RANGE: Commensurate with background and experience.
Information about the school is available at [http://www.tsinghua.edu.cn](http://www.tsinghua.edu.cn).

Apply online at [https://islandjobs.tamucc.edu](https://islandjobs.tamucc.edu), please include a letter of application addressing qualifications and stating research interests; current curriculum vitae including an email address; three letters of recommendation; and a copy of the transcript from the institution awarding the highest degree. Employment is contingent upon proof of the legal right to work in the United States. An appointment is not final until proof is provided to the University.

POSITION OPEN UNTIL FILLED (or recruitment canceled). Review of applications to begin as early as February 1, 2013.

TAMU-CC is an Equal Opportunity employer.

Tsinghua University, Beijing, China

Institute for Interdisciplinary Information Sciences (IIIS)
Tenure-Track Faculty Position

The Institute for Interdisciplinary Information Sciences (IIIS), headed by Turing Award winner Professor Andrew C. Yao, is a newly established academic unit at Tsinghua University, aimed at creating a world-class environment for research and education in computer science and related disciplines. IIIS currently has 23 full-time tenure-track faculty members, and is actively recruiting outstanding scholars to join IIIS in its exciting growth toward excellence.


Positions at Assistant/Associate/Full Professor levels are available. The remuneration package will be very attractive, driven by market competitiveness and individual qualifications. Initial appointments are normally made on a fixed-term contract. Subsequent contract renewal, promotion and tenure all follow standard international practices.

Further information about the Institute is available at [http://iiis.tsinghua.edu.cn](http://iiis.tsinghua.edu.cn) or from the postal address: IIIS Faculty Recruitment, FIT Building, Room 1-208, Tsinghua University, Beijing 100084, PR. China. Please send applications or nominations in the form of an application letter enclosing a current CV to [fcriv@mail.tsinghua.edu.cn](mailto:fcriv@mail.tsinghua.edu.cn), with the subject line “<candidate_name>: IIIS Computer Science Faculty Application”.

University of California, Berkeley

The Center for Computational Biology
Faculty Position

The Center for Computational Biology at the University of California, Berkeley, invites applications for a faculty position at the Assistant (tenure-track) or Associate (tenured) Professor level from scientists whose research focuses on the development of methods in computational biology. The position is to begin on July 1, 2013 and is part of UC Berkeley’s Computational Biology Strategic Hiring Initiative. See [http://ccb.berkeley.edu](http://ccb.berkeley.edu) for more information.

We seek outstanding scientists with strong interest and experience in developing novel, cutting-edge computational, mathematical, and/or statistical methods to solve biological problems, in particular those with active collaborations with biologists and whose contributions have had a significant impact on biology. Areas of interest include (but are not limited to) human genetics, pathogen genetics, epigenomics, comparative genomics, proteomics, metabolomics, transcriptomics, and cancer genomics.

The successful candidate will hold an appointment in an appropriate department (e.g., Electrical Engineering and Computer Sciences, Statistics, Biostatistics, Bioengineering, or Mathematics), and will build active bridges to experimental research at UC Berkeley, and teach courses in computational biology at the graduate and/or undergraduate level, including courses for the Computational Biology PhD program.

Applicants must hold a PhD or equivalent by the date of hire, and have a very strong record of research productivity. Candidates at the Assistant Professor level should demonstrate the ability to develop a rigorous research program, and be committed to...
Professional Opportunities

Computing Research News, January 2013
Vol. 25 / No. 1

Professional Opportunities in higher education through teaching, research, and service; we invite applicants to address this issue in their application. Women and underrepresented minorities are encouraged to apply.

To apply, please go to http://apprtrkr.com/299685. The closing date is Friday, December 14, 2012.

Applications must include (1) a curriculum vitae and list of publications; (2) copies of three significant publications; (3) a brief description of research accomplishments and a statement of research objectives; and (4) a summary of teaching experiences and interests. The Center is interested in applicants who will contribute to diversity and equal opportunity in higher education through teaching, research, and applications.

RIT promotes and values diversity, pluralism and inclusion in the workplace. RIT provides equal opportunity to all qualified individuals and does not discriminate on the basis of race, color, creed, age, marital status, gender, religion, sexual orientations, gender identity, gender expression, national origin, veteran status or disability in its hiring, admissions, educational programs and activities.

University of Chicago

Department of Computer Science
Assistant Professor

The Department of Computer Science at the University of Chicago invites applications from exceptionally qualified candidates for the position of Assistant Professor.

The Department of Computer Science www.cs.uchicago.edu is the hub of a large, diverse research community of two hundred researchers focused on advancing foundations of computing and driving its most advanced applications. Long distinguished in theoretical computer science and artificial intelligence, the Department is now building a strong Systems research group. This closely-knit community includes the Toyota Technological Institute, the Computation Institute, and Argonne’s Mathematics and Computer Science Division.

The University of Chicago is one of the world’s great intellectual communities. Founded in 1890 with an extraordinary donation by John D. Rockefeller it has grown to over 2,000 faculty and 15,000 students. Founded with a focus on research excellence, the University continues this tradition with numerous Nobel Prize and other notable awards and with two-thirds of the student population in graduate programs. The University of Chicago is consistently ranked in the top dozen universities in the world with top-ranked programs in the sciences, humanities, and professional schools (business, medicine, and law).

All letters submitted, or potentially solicited by the Center, will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: http://apo.chance.berkeley.edu/evaltr.html.

The University of California is an Affirmative Action/Equal Opportunity Employer. The University is also committed to addressing the family needs of faculty, and is responsive to the needs of dual career couples. See http://calcience.berkeley.edu/ for more information.

University of Rochester

Instructional Faculty

School of Interactive Games and Media

Applications are invited for one position at the Lecturer level starting in February 2013. We are particularly interested in candidates with teaching and/or industry experience in one or more of the following areas:

- 2D Animation and 3D Modeling/Animation
- Web Application Development
- Game Design and Development
- Graphics Programming

Required Minimum Qualifications

- A master’s degree in a relevant field
- Experience in games or interactive media industry
- Teaching experience in a relevant university program
- Ability to contribute in meaningful ways to the college’s continuing commitment to cultural diversity, pluralism, and individual differences

Apply online at http://apprtrkr.com/299685. Search 217BR.

In addition, please arrange to have at least three letters of reference sent directly to the Interactive Games & Media School Administration Search Committee c/o Brenda Schlageter at bjbka@rit.edu

Application deadline: Review of applications will begin December 1 and will continue until an acceptable candidate is found.

RIT promotes and values diversity, pluralism and inclusion in the workplace. RIT provides equal opportunity to all qualified individuals and does not discriminate on the basis of race, color, creed, age, marital status, gender, religion, sexual orientations, gender identity, gender expression, national origin, veteran status or disability in its hiring, admissions, educational programs and activities.
Professional Opportunities

School of Information Systems (SIS)
Singapore Management University (SMU)

INFORMATION SYSTEMS TENURE TRACK FACULTY POSITIONS
AVAILABLE in Information Systems and Management (IS&M)

We are interested in hiring at the Associate and Assistant Professor levels. Candidates may be experienced faculty, or applied technology researchers in a research-focused organization or agency. New PhDs will be considered for the Assistant Professor position.

Requirements. Successful applicants should demonstrate: (1) evidence of an established and innovative research program, targeted at the top journals, that emphasizes some aspect of IS&M in the interdisciplinary context; (2) a commitment and competency to teach topics involving IS, management and analytics; and (3) completion of a PhD degree.

Interdisciplinary. We welcome applications from multiple disciplines that touch on IS&M. They include: Information Systems, Applied Economics, Engineering and Technology Policy, Public Affairs, Applied Statistics, Media Studies, Machine Learning, and Computer Science. Applicants may have single or interdisciplinary backgrounds. We seek candidates with knowledge of data analytics for social media data mining, macroeconomics and digital business, and statistics, computational marketing or experimental social science.

Research at SMU and SIS. SMU has identified three Areas of Excellence for development and expansion: (1) Analytics for Business, Consumer and Social Insights; (2) Financial Markets and Institutions; and (3) Innovation and Entrepreneurship. The Living Analytics Research Centre (LARC), a joint effort founded in 2011 in partnership with Carnegie Mellon University, is an example of how SMU is building new capabilities. It focuses on closed-loop experimental research for near real-time applications in network-centric settings with societal-scale data. In 2012, SMU launched the LiveLabs Urban Lifestyle Innovation Platform (LiveLabs) to provide a test bed to create and evaluate innovative context-aware applications and services that intelligently adapt to the daily lifestyle patterns of people.

A key ingredient for the success of these initiatives is to reach across disciplines and create new capabilities for research involving computational social science.

The IS&M group. IS&M has five tenure track research faculty with doctoral degrees from UT Austin, Carnegie Mellon, Rochester and Harvard. It has other practice faculty and education faculty who support our educational and outreach missions. The main areas of coverage of IS&M are: IS in organizations; economics of IS; technology strategy, innovation and design; IT services; and technology, consumers and markets. Arrayed around the IS&M group are four other groups of faculty: Data Management and Analytics; Information Security and Trust; Intelligent Systems and Decision Analytics; and Software Systems. These competencies permit us to do research on human-computer interaction and outsourcing, autonomous agents and multi-agent systems, data security and information privacy, and data mining for text, social media, and spatial data analytics, based on expertise available from other faculty whose doctorates are in Computer Science.

To discover more about the connections that may be possible for you as a faculty member, please visit our websites: Singapore Management University (www.smu.edu.sg) and the School of Information Systems (www.sis.smu.edu.sg), as well as our research centers. These include LARC (www.larc.smu.edu.sg) and LiveLabs (www.livelabs.smu.edu.sg).

Application. Interested candidates should apply by sending materials to:

'IS&M Faculty Search' via siscv@smu.edu.sg

The required submission materials include:

(1) a cover letter explaining the position you are interested in and your qualifications;

(2) your current CV, research statement and research samples; and

(3) a teaching statement with past teaching performance evaluation information.

We will request three letters of references from candidates who make our short list.

Please direct questions to siscv@smu.edu.sg, and indicate the code 'IS&M' in your mail:

IS&M Faculty Search
School of Information Systems
Singapore Management University
80 Stamford Road, Singapore, 178902
Website: www.sis.smu.edu.sg/about/careers
Professional Opportunities

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

All applicants must apply through the University’s Academic Jobs website.

For applicants in:
1. the theory of computing, the LINK is: http://academiccareers.uchicago.edu/applicants/central?quickFind=52334
2. systems and networking, the LINK is: http://academiccareers.uchicago.edu/applicants/central?quickFind=52337
3. machine learning, the LINK is: http://academiccareers.uchicago.edu/applicants/central?quickFind=52338

A cover letter, curriculum vitae including a list of publications, a statement describing past and current research accomplishments and outlining future research plans, and a description of teaching experience must be uploaded to be considered as an applicant. Candidates may also post a representative set of publications, as well as teaching evaluations, to this website. Three reference letters are required, one of which must address the candidate’s teaching ability.

The reference letters can be sent by mail to:
Chair, Department of Computer Science
The University of Chicago
1100 E. 58th Street, Ryerson Hall
Chicago, IL. 60637-1581

Or by email to: Recommend@mailman.cs.uchicago.edu

To ensure fullest consideration of your application all materials, including supporting letters, should be received by November 19. However, screening will continue until all available positions are filled.

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

University of Colorado
Department of Computer Science
Assistant Professor

The Department of Computer Science at the University of Colorado Boulder invites applications for two full-time tenure-track positions in the areas of cyber-physical systems (CPS) and machine learning (ML). While these positions are at the Assistant Professor level, exceptional candidates at a more senior level may be considered.

These positions will complement existing efforts in cyber-physical systems and machine learning in the department and across the campus. For the CPS position, we seek candidates with active research programs that integrate physical systems with relevant analytic techniques; application areas include, without limitation, ubiquitous and embedded systems, robotics, bio-medical systems, smart vehicles and network systems. ML candidates with research programs in the areas of numerical optimization, speech and language processing, and large-scale learning systems are of particular interest. Candidates with relevant research programs involving energy systems are strongly encouraged to apply for either position.

The University of Colorado is an Equal Opportunity/Affirmative Action employer.

Application materials are accepted electronically at:
For cyber-physical systems
Jobs at CU posting quick link: www.jobsatcu.com/applicants/central?quickFind=71252
Professional Opportunities

For machine learning
Jobs at CU posting quick link: www.jobsatcu.com/applicants/Central?quickFind=71257

University of Dayton

Department of Computer Science
Department Chair

The Department of Computer Science at the University of Dayton invites applications for the position of Department Chair starting July 1, 2013. Applicants must have a Ph.D. in Computer Science and an academic record of achievement in teaching and scholarship appropriate for appointment with tenure at the rank of Associate Professor or Professor. Candidates must have a demonstrated ability to oversee curriculum development and innovation, communicate clearly and lead collaboratively, and have administrative experience at the department level. Preference will be given to those with experience in program assessment and accreditation and expertise developing and teaching courses that cross department and unit boundaries. For a full description of the position and how to apply online see http://jobs.udayton.edu/applicants/Central?quickFind=53763.

A complete application consists of a cover letter, CV, graduate transcripts, and a personal statement addressing administrative experience, leadership style and teaching philosophy. In addition, the candidate should arrange for three letters of reference to be sent, by the closing date, to: Chair Search Committee, Department of Computer Science, University of Dayton, Dayton, OH 45469-2160. Applications and all related materials must be received by January 15, 2013. The search committee may be contacted at cps@udayton.edu. The University of Dayton, founded in 1850 by the Society of Mary, is a Top Ten Catholic research university. The University seeks outstanding, diverse faculty and staff who value its mission and share its commitment to academic excellence in teaching, research and artistic creativity, the development of the whole person, and leadership and service in the local and global community. The University of Dayton received a National Science Foundation ADVANCE grant designed to promote the advancement and representation of women in STEM fields.

To attain its Catholic and Marianist mission, the University is committed to the principles of diversity, inclusion and affirmative action and to equal opportunity policies and practices. We act affirmatively to recruit and hire women, traditionally under-represented minority groups, people with disabilities and veterans.

University of Florida

Department of Computer & Information Sciences & Engineering
Tenure Track Position

The Department of Computer and Information Science and Engineering (CISE) in the College of Engineering at the University of Florida invites applications for a tenure-track position at the rank of Assistant Professor. The anticipated starting date is August 2013. While exceptionally strong candidates in any area of computer science or computer engineering are encouraged to apply, we are especially interested in the applicants that have a focus on human-centered computing. Candidates with expertise in one or more of the following areas are encouraged to apply: human-computer interaction, virtual/augmented reality, visualization, ubiquitous computing, and interactive computer graphics.

The tenure-track position is targeted to expanding the Digital Arts and Sciences program (DAS). The DAS degree is a core computer science degree with special emphasis on human-centered computing. The human-centered computing focus includes art, design, and computing courses that are related to digital media, interaction and communication. (http://www.cise.ufl.edu/academics/undergrad/das/)

The CISE Department is currently comprised of 30 tenure track faculty, a student body of 480 graduate and 656 undergraduate students. The Department encompasses a wide range of research areas; computer graphics, simulation, and art, computer systems, computer vision and intelligent systems, database and information systems, high performance computing and algorithms, medical imaging and machine learning, and networks and security.

Qualifications: All applicants must hold a PhD in Computer Science, Computer Engineering, or a closely related discipline, and possess a commitment to excellence in teaching and research.

Salary and support are competitive and dependent upon background and experience.

The search committee will begin reviewing applications immediately and will continue to receive applications until the position is filled. To be considered you must apply by submitting an application through the jobs website at UF https://jobs.ufl.edu/; reference number UF00192 and attach the following required documents: curriculum vitae, a statement of career objectives and background and experience.

In addition, PDF files of the application package may be e-mailed to search@cise.ufl.edu; this is not a formal method of application, to be considered individuals must apply through the UF website at https://jobs.ufl.edu/.

Additional information can be found by visiting one of three websites: Department of CISE http://cise.ufl.edu/; the College of Engineering http://eng.ufl.edu and the University of Florida http://ufl.edu

The University of Florida is an equal opportunity institution and women and minorities are encouraged to apply.

University of Hawaii at Manoa

Department of Information and Computer Sciences
Assistant/Associate/Full Professors

The Department of Information and Computer Sciences (ICS) at the University of Hawaii at Manoa...
Professional Opportunities

PROFESSOR AND CHAIR
Computer and Information Science and Engineering (CISE)
University of Florida

Applications and nominations are invited for the position of Professor and Chair of the Department of Computer and Information Science and Engineering (CISE) at the University of Florida; the flagship campus of the State of Florida university system. The CISE Department offers B.S., M.S., and Ph.D. degree programs with an enrollment of about 650 full-time undergraduate students and nearly 500 graduate students of which 117 are Ph.D. students. The CISE Department has 30 tenured or tenure-track faculty members with several IEEE, ACM, AAAS, SPIE, and SCS Fellows, and one member of the European Academy of Sciences. The Department also has 12 NSF Career Award winners and 2 YIP Award winners. The Department’s current external research expenditures exceed $4.8 million annually. Areas of research strength in the Department include: Applied Algorithms & Parallel Computing, Databases, Computer Vision and Machine Learning, Wireless Communications & Networking, and Graphics and HCL. The Department has additional emerging areas of strength in bioinformatics, cybersecurity, and embedded systems. For more information about the CISE Department and the College of Engineering, please visit www.cise.ufl.edu and www.eng.ufl.edu, respectively.

In addition to overseeing the operational management of the Department, responsibilities of the Chair include: (1) creating a compelling vision for the advancement of the department to include increasing existing strengths, fostering new disciplines in emerging fields within CISE, and strengthening interdisciplinary efforts across the College and University; (2) facilitating both the professional and scholarly growth of the faculty, particularly the junior faculty; (3) ensuring cutting-edge education is provided to all trainees (undergraduate, graduate, postdoctoral, and researchers); (4) enhancing the working partnership with the leaders of UF colleges and departments, administrations, and industry and government agencies; (5) recruiting a diverse faculty and student body; and (6) increasing sponsored research, private and external funding opportunities for the department, cultivate corporate, governmental, alumni and other private donations.

Qualifications: Earned Ph.D. and research and teaching experience in computer science or closely related field is required. In addition, we are seeking an individual who is a distinguished scholar in their field of research, with demonstrated academic credentials sufficient for appointment at the Full Professor level and experience in academic administration; experience in enhancing the representation and success of underrepresented populations; excellent interpersonal skills, written, and oral communication skills; demonstrated commitment to high academic standards; administrative experience including personnel supervision and evaluation; an individual who encourages a collaborative and open approach to problem solving, and experience in the development and expansion of sponsored research programs, all are highly preferred.

All candidates should apply through the UF Jobs website: https://jobs.ufl.edu/, reference position 00004237. The Search Committee will begin reviewing applications on January 7, 2013, and continue accepting applications until the position is filled. The University of Florida is an Affirmative Action/Equal Opportunity Employer, and women and minorities are strongly encouraged to apply.
Professional Opportunities

(UHM) is pleased to announce two tenure track faculty positions, pending availability of funds. The ICS department at UHM has a more than 40-year history of excellence and innovation in information and computer science and offers 6 degrees: BA, BS, MS, MLISc and 2 PhDs. Applicants must have a PhD from an accredited college or university in computer science or a closely related discipline. The ICS department is particularly interested in applicants with a specialization in one of these areas: security/information assurance, big data analytics, computer graphics/visualization, or foundations of computing/algorithms. Salary and hiring rank will be commensurate with qualifications and experience.

Applications should include a cover letter, vita, statement of research and teaching interests, and contact information for three references. Please send your application or any questions to cssearch@hawaii.edu or Search Committee Chair University of Hawaii Dept of ICS 1680 East West Rd, POST 317 Honolulu, Hawaii 96822

Additional information about the department can be found at www.ics.hawaii.edu.

Closing Date: 1/20/2013.

The University of Hawaii is an Equal Opportunity Affirmative Action Employer.

University of Illinois

Department of Computer Science Associate or Full Professor

The Departments of Computer Science (CS) and Advertising (ADV) at the University of Illinois at Urbana-Champaign invite applications for a joint faculty position in Computational Advertising. This novel position is part of a new multi-year Strategic Excellence Hiring Program at Illinois that focuses on: (a) Information, Technology and Society, (b) Human Health and Wellness, (c) Energy and Sustainability, and (d) Culture, Communication, and Global Issues. We seek candidates with CS skills in areas such as “big data”, data-mining, or algorithmic game theory, and with advertising interests or experience in areas such as online/contextual advertising, digital privacy, behavioral targeting, and social media analytics. Applications are encouraged from candidates whose research programs are in traditional as well as in nontraditional areas that would support novel research and teaching across the emerging discipline of Computational Advertising. Each department is engaged in exciting new and expanding programs for research, education, and professional development, and each has strong ties to industry, across a wide landscape of technology and media partners.

This is a tenured 9-month academic year appointment at the Associate or Full Professor level. Applicants must have an earned Ph.D. or equivalent degree, recognized national or international program of research, and an outstanding ability to teach effectively at both the graduate and undergraduate levels, in both the CS and ADV departments. Successful candidates will be expected to carry out independent research and to perform academic duties associated with our B.S., M.S., and Ph.D. programs.

Faculty in the CS department carry out research in a broad spectrum of areas and are supported by world-class facilities, starting with our department’s home in the Siebel Center for Computer Science, and including collaborations with the National Center for Supercomputing Applications, the Coordinated Science Laboratory, the Information Trust Institute, and the Illinois Informatics Institute, as well as several industrial centers and programs that foster international collaborations. The CS department has one of the leading programs in the United States, granting approximately 200 B.S. degrees, 70 M.S. degrees, and 60 Ph.D. degrees annually. The Department of Advertising, the first such academic department in the country, was established in 1959 by Charles H. Sandage, considered to be the father of advertising education. Today, the top-ranked department celebrates Sandage’s legacy with scholarship and teaching focused on understanding, evaluating and communicating the many facets of advertising. Approximately 150 B.S. degrees and 20 M.S. degrees are granted annually. Faculty can also teach in the Institute for Communications Research (ICR) doctoral program in the College of Media.

In order to ensure full consideration by the Search Committee, applications must be received by January 15, 2012. Salary will be commensurate with qualifications. Preferred starting date is August 16, 2012, but is negotiable. Applications can be submitted by going to http://jobs.illinois.edu and uploading a cover letter, CV, research statement, and teaching statement, along with names of three references. For inquiry, please call 217-244-7949 or email HR@cs.illinois.edu.

Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity (www.inclusiveillinois.illinois.edu).

University of Kentucky

Computer Science Department Assistant Professor

The University of Kentucky Computer Science Department expects to hire an Assistant Professor to begin employment in August of 2013. Candidates must have earned a PhD in Computer Science or closely related field at the time employment begins. Applications are now being accepted.

Review of credentials will begin immediately and continue until the position is filled.

The department seeks to hire energetic researchers/educators who are interested in the application of advanced computing to challenging and relevant problems. We favor researchers who can collaborate to solve problems involving multiple disciplines. All areas of computing will be considered, but database/data mining and scientific computation are a focus area.

To apply, a University of Kentucky Academic Profile must be submitted at https://ukjobs.uky.edu/applicants/Centra/?quickFind=207966.

For more detailed information about this position, go to www.cs.uky.edu/opportunities/faculty.

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

University of Massachusetts

Department of Computer Science Lecturer Positions

The Department of Computer Science at the University of Massachusetts, Amherst invites applications for two faculty positions at the rank of Lecturer. The department seeks individuals with exceptional promise for, or a proven record of, excellence in teaching undergraduate computer science and/or informatics courses at all levels. We are seeking individuals who are interested in teaching undergraduate software engineering courses and/or in helping to develop a new undergraduate degree program in Informatics intended to explore the interdisciplinary impact of computing on a wide range of disciplines. The duties of an individual holding this position will include teaching courses for majors and non-majors, curriculum development, and undergraduate advising for the Computer Science and Informatics programs.

Applicants should hold a graduate degree in Computer Science, Informatics, Computer Engineering or a closely related field (Ph.D. preferred), and have a strong interest in teaching, especially curricular materials with an orientation towards practical application. The initial appointment to this position will be for two years, with the possibility of reappointment for subsequent periods.

Successful applicants will find the Computer Science Department to be a stimulating, diverse environment conducive to professional growth in both teaching and research. Amherst, a historic New England town, is the center of a vibrant and culturally rich area that includes four other colleges. For more information about the department, visit http://www.cs.umass.edu.

To apply, please send a cover letter referencing search R44235 (CS/Software Engineering) or R44930 (CS/Informatics) with your curriculum vitae, a description of
Professional Opportunities

teaching experience, and the names of at least three references to:
Chair, Lecturer Search Committee
Computer Science Department
140 Governors Drive
UMass Amherst
Amherst, MA 01003-9264

Electronic submissions encouraged: lecturers@cs.umass.edu

Review of applications will begin January 15, 2013, and continue until the positions are filled.

The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. The department is committed to building a diverse educational environment; women and members of minority groups are encouraged to apply.

University of Massachusetts, Amherst
Department of Computer Science
Assistant / Associate Professor

The Department of Computer Science at the University of Massachusetts Amherst invites applications for four tenure-track faculty positions in computer science in the areas of computer vision, robotics, theory, and natural language processing. Applicants must have a Ph.D. in Computer Science or a related area, and should show evidence of exceptional research promise.

The first three positions are available at either the Assistant Professor or Associate Professor level. The Natural Language Processing position is available at the Assistant Professor level. Here we seek candidates able to collaborate closely with the departments of Linguistics and Psychology in The Institute for Computational and Experimental Study of Language (ICESL). The applicant should have a strong background in Natural Language Processing, preferably in the area of Syntax and Semantics.

Our department is highly supportive of junior faculty, providing both formal and informal mentoring. Many of our faculty are involved in interdisciplinary research, working closely with other departments including statistics/mathematics, linguistics, electrical and industrial engineering, biology, physics, and nursing, as well as new “green” initiatives. Amherst, a historic New England town, is the center of a vibrant and culturally rich area that includes four other colleges. For more information about the department, visit http://www.cs.umass.edu/.

To apply, please send a cover letter referencing research search R44926 (computer vision), R44927 (theory), R44928 (robotics), or R44232 (natural language processing) with your vita, a research statement, a teaching statement, and contact information for at least three references. Electronic submission of application materials in PDF format is preferred. Send to facrec@cs.umass.edu. Alternatively, paper copies of application materials may be sent to: Chair of Faculty Recruiting, Department of Computer Science, University of Massachusetts, Amherst, MA 01003.

We will begin to review applications on December 3, 2012 and will continue until the positions are filled. Rank and salary will be commensurate with qualifications and experience. Inquiries and requests for more information can be sent to: facrec@cs.umass.edu.

The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. The department is committed to building a diverse educational environment; women and members of minority groups are encouraged to apply.

University of Massachusetts Dartmouth

Department of Chemistry and Biochemistry
Tenure Track Assistant/Associate Professor of Physical Chemistry

Applications are invited for faculty appointments beginning September 1, 2013 in the Department of Chemistry and Biochemistry. Applicants will be considered at the Assistant, Associate levels in Physical Chemistry with emphasis on Computational Chemistry. Candidates must be committed to excellence in teaching and establishing an externally funded research program. A PhD or equivalent degree from an accredited university is required, and for the Assistant Professor level a post doctoral experience is preferred. Appointment at the Associate Professor level requires a strong record of significant scholarship and substantial external grant support. Teaching responsibilities include graduate and undergraduate courses.

Visit us at http://www.umassd.edu/cas/chemistry/welcome.cfm

Please note that the University of Massachusetts Dartmouth has a rapidly growing research program with expenditures that exceed $25M per year. We are part of the Massachusetts Green High Performance Computing Coalition, which gives our researchers access to a new high performance computing cluster that opened in Fall 2012. Additionally, the University of Massachusetts-Dartmouth has an interdisciplinary computational science and engineering group of faculty members from several departments in two colleges and one school and is seeking to add to the campus expertise in computational science and engineering. Successful applicants will be expected to work with existing faculty as a team to build campus strengths in computational science.

To apply, please submit (1) a letter addressing the candidate’s interest in teaching and research with undergraduate and graduate students; (2) detailed statement of research plans for developing and implementing or continuing an externally funded research program; (3) curriculum vitae; (4) three letters of recommendation (including the phone numbers and email addresses of the references); and (5) academic transcripts of graduate work. All Application material should be sent as email attachments to: CHM2013@UMASSD.EDU Formal review of applications begins December 20, 2012 and continues until the position is filled. UMass Dartmouth is one of five UMass campuses and is located on the coast an hour south of Boston, midway between Providence, RI, and Cape Cod.

The University of Massachusetts Dartmouth reserves the right to conduct background checks on all potential employees.

The University of Massachusetts Dartmouth is an EEO/AA employer.

University of North Carolina at Charlotte

Department of Software and Information Systems – College of Computing and Informatics
Tenure-Track Faculty Positions – Healthcare Informatics and Human Computer Interaction Design

The Department of Software and Information Systems at UNC Charlotte invites applicants for tenure-track faculty positions at both the Assistant Professor and Associate Professor levels. The Department is dedicated to research and education in Software Engineering and Information Technology applications, with emphasis in the areas of Cyber Security and Privacy, Modeling and Simulation, Human Computer Interaction (HCI), Design, and Healthcare Informatics. The Department has two open positions: one in Healthcare Informatics and one in Human-Centered Computing/Design.

UNC Charlotte is North Carolina’s urban research university. Located in the state’s largest metropolitan area, UNC Charlotte is among the fastest growing universities in the UNC System. The College of Computing and Informatics is experiencing significant growth in student numbers and externally funded research. The Department of Software and Information Systems has established relationships with local industry partners and is seeing a surge of interest in its core areas of teaching and research. In joining this Department you will become part of an exciting time of new curriculum development and innovative research. The department offers degrees at the Bachelors, Masters, and Ph.D. levels. The candidate will teach undergraduate and graduate courses and will supervise doctoral dissertations. The yearly teaching load is three courses plus supervision of research groups. Teaching opportunities will be based on current course offerings and the individual’s areas of scholarly expertise. Current faculty members have strong research programs with substantial funding from both federal agencies and industrial partners.
Professional Opportunities

For applicants interested in Healthcare Informatics, the Department is especially interested in candidates that have expertise in one of the core areas of Software and Information Systems (cyber-security and privacy, AI, modeling and simulation, HCI, or design) and experience working in health care environments and with good understanding of the challenges of clinical workflow and decision making. The College of Computing and Informatics has recently introduced a new Professional Science Masters Degree in Health Informatics, one of several collaborative efforts with the College of Health and Human Sciences and the University Graduate School, and the Department is looking for applicants who can help lead this effort. Specific research areas of interest include clinical knowledge modeling and decision support system development; clinical text analysis, text mining, machine learning and clinical data analytics; health care privacy, health care systems formal modeling and analysis; secure medical devices, innovative mobile applications to health care and informatics; human centric design of new health informatics technology; health information technology development and evaluation; and health informatics education research. Highly qualified candidates in other areas will also be considered.

For applicants interested in Human-Centered Computing and Design, the Department is interested in candidates from a range of disciplinary backgrounds who use innovative approaches and technologies to address current challenges in human computer interaction and design. The Department is interested in candidates that complement and contribute to current faculty research in HCI design, creativity, usable security and privacy, and big data analysis and visualization; and bring new areas to the department such as designing novel technologies; modeling individual, group and crowd sourcing behavior; interaction design and social computing; game design; physical computing and interactive materials; systems modeling approaches to HCI; ubiquitous computing; and ambient intelligence. Highly qualified candidates in other areas will also be considered.

Salary will be highly competitive. Applicants must have a Ph.D in Computer Science, Informatics, or a related field, as well as a strong commitment to research and education. For further details please visit http://www.sis.uncc.edu. Application review will start in January 2013.

Applications must be submitted online at https://jobs.uncc.edu; see position numbers 3718 (Health Informatics) and 3757 (Human Centered Computing Design). Please include with your application a cover letter, curriculum vitae, a statement of teaching interests, a statement of research interests, copies of three representative scholarly publications, and a list of four references. For questions or additional information, please email search-sis@uncc.edu.

Women, minorities and individuals with disabilities are encouraged to apply. UNC Charlotte is an Equal Opportunity/Affirmative Action employer and is an ADVANCE institution, dedicated to increasing diversity in STEM fields.

UNC Charlotte
Software and Information Systems, College of Computing and Informatics
Research Associate Position in Formal Methods in Security

The Center of Cyber Defense and Network Assurance (CyberDNA), in College of Computing and Informatics, at University of North Carolina Charlotte, is announcing the availability of a Post-Doctoral or Research Associate position in the area of formal methods (modeling checking, SAT, SMT, and others), with potential application in network security and cyber-physical systems. The starting date is any time between January 15, 2013 and September 15, 2013. Experience in security, system modeling, and analysis is important. The candidate has to show the ability to lead and initiate projects.

APPLICATION REQUIREMENTS include (1) Ph.D in Computer Science or related fields, and (2) experience in formal methods. Interested candidate should send their CV, 2 reference letters, and research statement to Ehab Al-Shaer (ealshaer@uncc.edu).

The University of North Texas
Department of Computer Science and Engineering
Assistant Professor

The Department of Computer Science and Engineering at the University of North Texas (UNT) is seeking candidates for a tenure-track faculty position at the Assistant Professor level beginning August 15, 2013. The department plans to build on its existing strengths in Computer Security, including network security and intrusion detection, secure software systems, vulnerability analysis, and machine learning techniques applied to computer security. Candidates should have demonstrated the potential to excel in research in one or more of these areas and in teaching at all levels of instruction. A Ph.D in Computer Science, Computer Engineering or closely related field is required at the time of appointment. An Applicant’s record must include high quality publications.

The Computer Science and Engineering department is home to 812 bachelor students, 140 masters students and 82 Ph.D. students. The UNT Center for Information and Computer Security, housed in the department, has been recognized by the National Security Agency as a National Center for Academic Excellence in Information Assurance Research and Education and offers several certificate programs in computer security. Additional information about the department and center are available at the websites: www.cse.unt.edu and www.cics.unt.edu, respectively.

Application Procedure:

All applicants must apply online to: https:// facultevjobs.unt.edu/applicants/Central?quickFind=51738. Submit nominations and questions regarding the position to Dr. Philip Sweney (sweney@cse.unt.edu).

Application Deadline:

The committee will begin its review of applications on December 1, 2012 and continue until the position is closed.

The University:

With about 36,000 students, UNT is the nation’s 33rd largest university. As the largest, most comprehensive university in Dallas-Fort Worth, UNT drives the North Texas region. UNT offers 97 bachelor’s, 82 master’s and 35 doctoral degree programs, many nationally and internationally recognized. A student-focused public research university, UNT is the flagship of the UNT System. UNT is strategically located in Denton, Texas, a vibrant city with a lively arts and music culture, at the northern end of the Dallas-Fort Worth metroplex. The DFW area has more than six million people, with significant economic growth, numerous industrial establishments, and excellent school districts.

The University of North Texas is an AA/ADA/EOE committed to diversity in its educational programs.

University of Ontario Institute of Technology
Faculty of Science, Competition No: UOIT12-390
Canada Research Chair (Tier II) in Big Data Visual Analytics

The Faculty of Science at the University of Ontario Institute of Technology (UOIT) invites applications for nomination for a Tier II Canada Research Chair (CRC) appointment in Big Data Visual Analytics. The Faculty is seeking an internationally recognized researcher with the potential to lead the emerging field of big data visual analytics to address critical challenges of collecting and properly interpreting large volumes of heterogeneous, messy and uncertain data sets, facilitated by modern computing technology.

The CRC candidate must hold a PhD in a relevant discipline and should demonstrate extensive research experience in big data visual analytics. Appointment to this tenure-track or tenured faculty position will be at the Assistant or Associate Professor level, commensurate with the qualifications of the successful applicant. Canada Research Chairs are subject to review and approval by the CRC Secretariat. Further details on the CRC Program can be viewed at http://www.chairs.gc.ca.
Professional Opportunities

For details of this position and how to apply, please visit www.uoit.ca/academicpostings and select UOIT 12-390.

University of Pennsylvania

Department of Computer and Information Science Faculty Positions

The University of Pennsylvania invites applicants for tenure-track appointments in computer science to start July 1, 2013. Applicants must have a Ph.D. in Computer Science. While exceptional individuals in any area will be considered, particular areas of interest include formal methods, machine learning, and systems. Tenured appointments will also be considered.

The department seeks individuals with exceptional promise for, or proven record of, research achievement who will excel in teaching undergraduate and graduate courses and take a position of international leadership in defining their field of study. Leadership in cross-disciplinary collaborations is of particular interest. Successful applicants will find Penn to be a stimulating environment conducive to professional growth.

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

To apply, please complete the form located on the Faculty Recruitment Web Site at: http://www.cis.upenn.edu/positions/faculty_application.html

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

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

Applications should be received by January 15, 2013 to be assured full consideration.

Applications will be accepted until positions are filled.

Questions can be addressed to faculty-search@central.cis.upenn.edu.

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

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

University of Pennsylvania

Department of Computer and Information Science Lecturer Position

The University of Pennsylvania’s Department of Computer and Information Science invites applicants for a Lecturer position within our undergraduate program. The department seeks individuals with exceptional promise for, or a proven record of, excellence in teaching. Applicants should have a degree or significant industry experience in computing, and a strong interest in teaching introductory computer science.

The position entails designing and teaching recitation sections; working with instructors to develop course materials including lecture content, assignments, projects and demonstrations; holding TA training meetings; and managing software support and web infrastructure for introductory computer science courses. The target start date is September 1, 2013. Applications will be evaluated on a rolling basis until the position is filled.

Lecturer positions are for one year, renewable annually up to three years, at the end of which a promotion to Senior Lecturer can be considered. Successful applicants will find Penn to be a stimulating environment conducive to professional growth in both teaching and research.

Please go to www.cis.upenn.edu/facultypositions to apply.

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. The Penn CIS Faculty is sensitive to “two–body problems” and would be pleased to assist with opportunities in the Philadelphia region.

University of Pittsburgh

School of Information Sciences

The School of Information Sciences (http://www.ischool.pitt.edu) at the University of Pittsburgh is seeking candidates for two tenure stream assistant professorships to start in the fall term of 2013. The primary areas of interest include:

Information Assurance (Position #06441)
- Application and system security
- Digital forensics
- Trust, security, privacy

Web Science (Position #02336)
- Data-intensive scholarship
- Information visualization
- Data mining
- Semantic web
- Web engineering

The School is a top-ranked information school (ISchool) which emphasizes the synthesis of people, information and technology, and offers opportunities for research, instruction, and service spanning the diverse needs and interests of an information-intensive, multi-cultural, and increasingly digital society. The iSchool at Pitt offers a wide variety of multidisciplinary educational opportunities, including Ph.D. and Master’s programs in information science & technology (MSIS), telecommunications & networking (MST), library & information science (MLIS), and an undergraduate program (BSIS).
Professional Opportunities

The School is seeking candidates with a strong commitment to research as well as graduate and undergraduate education.

The University of Pittsburgh has been designated as a National Center of Academic Excellence in Information Assurance Education and Research by the National Security Agency and the Department of Homeland Security, while the iSchool security curriculum has been certified by the Committee on National System Security (CNSS) as meeting the national standards for information security education. In Web Science, numerous opportunities exist for collaboration on large-scale Web Service projects, including collaboration with the Center for Biomedical Informatics and the Intelligent Systems Program at Pitt.

Candidates who bridge disciplinary areas are specifically encouraged to apply. Successful candidates will demonstrate a strong interest and current awareness of the technological and cultural context in which their knowledge contributes to issues of contemporary society. As the school offers an online degree program in addition to on-campus programs, candidates with complementary expertise and experience in educational technologies are encouraged to apply.

In addition, a record of (or interest in) collaboration with other scholars is highly desirable.

Candidates applying for the position(s) are expected to hold an earned doctorate or the equivalent in computer science and related scholarly activities. Applicants should present a record of effective teaching, academic or professional experience. Applicants to hold an earned doctorate or the equivalent in computer science and related scholarly activities. Applicants should present a record of effective teaching, academic or professional experience. Applicants to hold an earned doctorate or the equivalent in computer science and related scholarly activities. Applicants should present a record of effective teaching, academic or professional experience.

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University of Rochester

Faculty Positions in Computer Science: HCI and Big Data

The University of Rochester Department of Computer Science seeks applicants for multiple tenure track positions in human-computer interaction (HCI) and big data research (including machine learning and data mining, cloud computing, e-science applications, and very large databases). Candidates must have a PhD in CS or a related discipline. Applicants for the big data position will also be considered for a faculty search in that area by our Department of Electrical & Computer Engineering. Additional information and online application instructions appear at http://www.cs.rochester.edu/dept/recruit.

The Department of Computer Science is a research-oriented department with a distinguished history of contributions in systems, theory, artificial intelligence, and HCI. We have a collaborative culture and strong ties to cognitive science, linguistics, and ECE. Over the past decade, a third of its PhD graduates have won tenure-track faculty positions, and its alumni include leaders at major research laboratories such as Google, Microsoft, and IBM.

The University of Rochester is a private, Tier I research institution located in western New York State. The University of Rochester consistently ranks among the top 30 institutions, both public and private, in federal funding for research and development. Teaching loads are light and classes are small. Half of its undergraduates go on to post-graduate or professional education. The university includes the Eastman School of Music, a premiere music conservatory, and the University of Rochester Medical Center, a major medical school, research center, and hospital system. The greater Rochester area is home to over a million people, including 80,000 students who attend its 8 colleges and universities.

The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education. The University is an Equal Opportunity Employer.

University of South Carolina

Department of Computer Science and Engineering
Assistant Professor Position: Technology and Community Support for Older Adults

The University of South Carolina invites applications for a tenure-track faculty position at the rank of assistant professor in the Department of Computer Science and Engineering. This position is part of a cluster hire for the SmartHOME Initiative in the SeniorSMART Center of Economic Excellence (www.seniorsmart.org).

SmartHOME has the goal of enabling older adults to stay in their own homes longer through the use of new technologies and community services.

The successful candidate will have a primary academic home in the Department of Computer Science and Engineering and a secondary appointment in the College of Social Work. The candidate will be expected to collaborate with investigators in the College of Social Work who are involved in the SmartHOME initiative, while developing an independent research program that will contribute to the goals of this initiative. A goal of this position is to engage faculty in social work and...
Professional Opportunities

computer science and engineering in collaborative intervention research using technologies to enable aging-in-place. In addition to teaching undergraduate and graduate courses in the Department of Computer Science and Engineering, the candidate will be expected to work with College of Social Work faculty to design and teach graduate courses on intervention strategies using technologies in the promotion of health and well-being in older adults. Affiliations with other academic disciplines in the University are encouraged.

The successful applicant will have a doctoral degree in computer science, computer engineering, or computer information systems and a strong research record showing potential for research in intervention technologies that promote physical health and well-being in the older adult population. The candidate must have a demonstrated commitment to interdisciplinary teamwork and a promising record of competitive extramural funding and independent research. The successful applicant must demonstrate the potential to teach across disciplines at the graduate level and the ability to contribute to the SmartHOME initiative. Persons joining the program will have significant opportunities and access to world-class university and state-wide laboratory and clinical facilities and staff. The Department of Computer Science and Engineering is in the College of Engineering and Computing and offers bachelor's, master's, and doctoral degrees. The Department has 23 full-time faculty (ten of whom are CAREER award recipients), an undergraduate enrollment of 424 students, and a graduate enrollment of 98 students, and over $2 million in annual research expenditures. University leadership has made growth of the Department a high priority. The University of South Carolina is located in Columbia, the capital and technology center of South Carolina, and is the comprehensive graduate institution in the state with an enrollment of more than 25,000 students.

Applications must include a letter of application, curriculum vitae, research and teaching plans for multidisciplinary courses (computer science and social work), and contact information for at least three references. Applications should be submitted electronically to CSE@cse.sc.edu. The search committee will begin reviewing applications immediately and continue until the position is filled.

Inquiries about this position may be made to Dr. Michael N. Huhns, Chair of the Department of Computer Science and Engineering (803) 777-5921 or huhns@sc.edu. Questions about the College of Social Work may be directed to Dr. Anna Scheyett, Dean of the College of Social Work, (803) 777-4886 or anna.scheyett@sc.edu. Questions about the SmartHOME Initiative may be directed to Dr. Sue Levkoff, SmartHOME Endowed Chair at (803) 777-4521 or slevkoff@mailbox.sc.edu.

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

University of South Florida

Computer Science and Engineering – http://www.cse.usf.edu/

Full/Associate/Assistant Professor – Computer Security (cybersecurity)

Applications are invited for a tenure or tenure-track position at any rank in the Department of Computer Science and Engineering. The Department is seeking to hire in any area of computer security (cybersecurity), including system security, mobile- and medical-device security, anomaly detection, formal verification, usability, privacy, authentication, biometrics, machine learning and web security. Candidates should have an established record of sponsored research with outstanding-quality research publications and with potential for excellence in teaching. Candidates should also have a strong desire to provide leadership towards the establishment of a Center for Cybersecurity. Candidates must have completed a Ph.D. in computer science, computer engineering, or a related discipline. Salary will be commensurate with qualifications and experience.

The Department of Computer Science and Engineering (http://www.cse.usf.edu) has 24 faculty members and offers B.S., M.S., and Ph.D. degrees. The graduate program serves approximately 120 students (evenly split between Ph.D. and M.S.). The research program is well supported by federal...
Professional Opportunities

and state agencies including DoD, DoE, DoT, NIH, NSF, as well as industry. A strong partnership for inter-disciplinary research exists with other research centers within the College and University. The NRC rankings in 2010 placed the Department within the upper third of the 129 programs in the discipline and the top in the state of Florida.

The University of South Florida is a high-impact, global research university dedicated to student success. USF ranks 50th in the nation for federal expenditures in research and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. Serving more than 47,000 students, the USF System has an annual budget of $1.5 billion and an annual economic impact of $3.7 billion. USF is a member of the Big East Athletic Conference.

An application package should include a cover letter, curriculum vitae, statement outlining research goals, statement outlining teaching goals, and the names and contact information of at least three references. Application materials are to be submitted online. See http://www.cs.usm.edu/faculty-search/ for instructions. For questions please send email to faculty-search@usm.edu. Applications will be considered starting immediately until the position is filled.

According to Florida law, applications and meetings regarding them are open to the public. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution. Women and minorities are strongly encouraged to apply. Dual career couples with questions about opportunities are encouraged to contact the Department chair.

The University of Southern Mississippi
School of Computing
Director

The University of Southern Mississippi and the College of Science and Technology invite applications for the position of Director of the School of Computing (http://www.cs.usm.edu/). We seek an accomplished administrator and nationally recognized scholar with demonstrated leadership experience in computer science/engineering technology and a strong record of external funding. The Director is chief administrative officer and provides leadership and vision to enhance the School’s high quality research and educational activities.

The School is a multidisciplinary unit, with faculty and students located at teaching sites in Hattiesburg and Long Beach. We offer a CAC/ABET-accredited B.S. degree program in Computer Science and ETAC/ABET-accredited B.S. degree programs in Computer Engineering Technology and Electronics Engineering Technology as well as B.S. degrees in Computer Science (Applied) and Information Technology, an M.S. in Computer Science, and a Ph.D. in Computational Sciences. The School currently comprises 17 full-time faculty, ~60 graduate students, and ~380 undergraduates. Faculty research interests include data mining, bioinformatics, artificial intelligence, wireless networking, cyber-security, cloud computing, mobile agent technology, image processing, computer vision, numerical methods/analysis, computational electromagnetic, sensor networks, sensors/instrumentation development and automation.

Desirable qualities of the successful candidate include prior administrative experience, leadership skills, ability to organize multidisciplinary projects, and experience with graduate and undergraduate programs and with the accreditation process. An earned doctorate in computer science or closely related field is required and candidates must have credentials that would merit appointment as a full professor.

Applications must be submitted online at https://jobs.usm.edu and include a letter of interest, curriculum vitae, and names and contact information for at least 3 references. Review of applications begins December 3, 2012 and continues until the position is filled. The anticipated start date is July 1, 2013.

For inquiries about the position, contact Dr. Patricia Biesiot, Associate Dean, College of Science and Technology: patricia.biesiot@usm.edu or 601-266-4883. AA/EOE/ADA

University of Texas at Austin
Department of Computer Science
Assistant/Associate/Full Professor Positions

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

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

It has 42 tenured and tenure-track faculty members across all areas of computer science. Many of these faculty participate in interdisciplinary programs and centers in the University, including the Texas Advanced Computing Center (TACC), and those in Computational and Applied Mathematics, Computational Biology, and Neuroscience.

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

The department prefers to receive applications online, beginning September 1, 2012. To submit yours, please visit: http://www.cs.utexas.edu/faculty/recruiting

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

Inquiries about your application may be directed to faculty-search@cs.utexas.edu. For full consideration of your application, please apply by January 31, 2013. Complete applications (including all reference letters) will begin being reviewed on December 15th. Women and minority candidates are especially encouraged to apply. The University of Texas is an Equal Opportunity Employer.

The University of Texas at Dallas
Tenure Track Faculty Positions in Computer Science – http://cs.utdallas.edu

The Department of Computer Science of The University of Texas at Dallas invites applications from outstanding candidates for multiple tenure track positions in computer science. Candidates in all areas of Computer Science will be considered. Candidates must have a Ph.D. degree in Computer Science, Software Engineering, Computer Engineering or equivalent. The positions are open for applicants at all ranks. Candidates for senior positions must have a distinguished research, publication, teaching and service record, and demonstrated leadership ability in developing and expanding (funded) research programs. An endowed chair may be available for highly qualified senior candidates. Junior candidates must show outstanding promise.

The Department offers B.S., M.S., and Ph.D. degrees in both Computer Science and Software Engineering, as well as in interdisciplinary fields of Telecom Engineering and Computer Engineering. Currently the Department has a total of 45 tenure-track faculty members and 14 senior lecturers. The department is housed in a spacious 150,000 square foot facility and has excellent computing equipment and support. The department houses a number of centers, particularly, in areas of net centric software, cyber security and human language technology.

The University is located in the most attractive suburbs of the Dallas metropolitan area. There are over 800 high-tech companies within few miles of the campus, including Texas Instruments, Alcatel, Ericsson, Hewlett-Packard, Nokia, Fujitsu, Raytheon, Rockwell Collins, Cisco, etc. Almost all the country’s leading telecommunication's companies have major research and development facilities in our neighborhood. Opportunities for joint university-industry research projects are excellent. The Department received more than $20 Million in new research funding in the last two years. The University and the State of Texas are also

AA/EOE/ADA
The Erik Jonsson School of Engineering and Computer Science, where the CS Department is housed, has experienced very rapid growth in recent years. The University and the State of Texas are investing significant resources in the pursuit of excellence. We welcome inquiries; for more information, contact Gopal Gupta, Department Head, via email (gupta@utdallas.edu) or send e-mail to cs-search@utdallas.edu or view the Internet Web page at http://cs.utdallas.edu. The search committee will begin evaluating applications on January 15th. Applications received on or before January 31st will get highest preference. To apply, please visit: http://provost.utdallas.edu/facultyjobs/pcx121129

The University of Texas at Dallas is an Equal Opportunity Affirmative Action employer and strongly encourages applications from candidates who would enhance the diversity of the University’s faculty and administration.

University of Toronto

Department of Computer Science
Tenure-Stream in Machine Learning

The Department of Computer Science at the University of Toronto invites applications for a tenure-stream position in the area of Machine Learning. The appointment is at the rank of Assistant Professor and will begin on July 1, 2013.

Candidates should have (or be about to receive) a Ph.D. in Computer Science or a related field. We seek outstanding applicants with demonstrated excellence in research at the highest level and with potential for excellence in undergraduate and graduate teaching.

Salaries are competitive with our North American peers and will be determined according to experience and qualifications. Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live, and a major centre for advanced computer technologies.

The Department of Computer Science is an international leader in research and teaching, with recognized strength in most areas of Computer Science. The department also has close interdisciplinary ties to other units within the University and strong interactions with the computer industry.

Applications received on or before January 31st will get highest preference. To apply, please visit: http://provost.utdallas.edu/facultyjobs/pcx121129

The University of Texas at Dallas is an Equal Opportunity Affirmative Action employer and strongly encourages applications from candidates who would enhance the diversity of the University’s faculty and administration.

University of Toronto

Department of Computer Science and the Donnelly Centre
Tenure-Stream Position

The Department of Computer Science at the University of Toronto invites applications for a tenure-stream position in Computational Biology or Bioinformatics. The appointment is at the rank of Assistant Professor and will begin on July 1, 2013.

We seek outstanding applicants with demonstrated excellence in research at the highest level and with the potential for excellence in undergraduate and graduate teaching. Although we expect candidates to have a PhD and postdoctoral training in the computational sciences (computer science, computational biology and quantitative biology), exceptional candidates with recent or imminently-expected PhDs will be also considered.

The Department of Computer Science is an international leader in research and teaching, with recognized strength in most areas of computer science. The Donnelly Centre is an interdisciplinary research institute at the University of Toronto with the mandate to create a research environment that encourages integration of biology, computer science, engineering and chemistry, and that spans leading areas of biomedical research. The successful candidate will have the opportunity to take advantage of the University’s strengths in biology and bioinformatics – and computational, medical and biological sciences more broadly – and to facilitate
Professional Opportunities

The Department of Computer Science (CS@VT) at Virginia Tech seeks applicants for tenure-track faculty positions in the following areas:

**Assistant Professor in Cybersecurity**

The successful candidate will contribute to the research and graduate programs in the National Capital Region (NCR) and collaborate with faculty at Virginia Tech’s campus in Blacksburg, VA. This position also adds to the collaboration in cybersecurity between the Department of Computer Science and the Bradley Department of Electrical and Computer Engineering (ECE). Candidates should have research interests in systems and network security, trustworthy systems, software security, information security and privacy, or other topics relevant to national critical infrastructure. Candidates should have a record appropriate to an associate professor rank in scholarship, leadership, and interdisciplinary collaboration in cybersecurity. Ideal candidates combine cybersecurity with existing departmental strengths. See www.cs.vt.edu/FacultySearch for additional information.

Applications must be submitted online to https://jobs.vt.edu. Inquiries should be directed to Dr. Dennis Kafura, Search Committee Chair, kafura@cs.vt.edu.

**Assistant Professor in Artificial Intelligence/Machine Learning**

Full-time tenure-track position, at the rank of Assistant Professor, from candidates with expertise in artificial intelligence having specific emphasis on machine learning or reasoning under uncertainty. The department is in the process of making multiple hires over multiple years in this area. Candidates should have a record of scholarship, leadership, and collaboration in computing and interdisciplinary areas; demonstrated ability to contribute to teaching at the undergraduate and graduate levels; and sensitivity to issues of diversity in the campus community; and the skills to establish and grow a multidisciplinary research group. Early applications are encouraged. Applications must be submitted online to https://jobs.vt.edu for posting #0122414.

The department is home to the Discovery Analytics Center (dac.cs.vt.edu), a university-wide effort that brings together faculty with strengths in machine learning, big data, and data mining applied to problems of national interest. There also are rich opportunities in a highly collaborative department with strengths in HCI, HPC, computational biology and bioinformatics, information retrieval, software engineering, CyberArts, and CS education. Beyond the department, there are opportunities for collaboration in machine learning with faculty in ECE and Statistics, Research on security and personal health informatics is possible in collaboration with the VT-Carilion Research Institute associated with the VT-Carilion School of Medicine. Applicant screening will begin December 31, 2012 and continue until the position is filled. Inquiries should be directed to Dr. Doug Bowman, AI/ML Search Committee Chair, bowman@vt.edu.

**Assistant, Associate, or Full Professor in Systems**

Candidates with research breadth and depth across several areas of computer systems, including architecture, operating systems, and networking are sought and researchers in the areas of compilers, run-time systems, and parallel and distributed systems are especially encouraged to apply. Candidates should have a record of scholarship and collaboration in computing and interdisciplinary areas; demonstrated ability to contribute to teaching at the undergraduate and graduate levels; and sensitivity to issues of diversity in the campus community. Applications must be submitted online to https://jobs.vt.edu for posting #0122413. Applicant screening will begin December 31, 2012 and continue until the position is filled. Inquiries should be directed to Dr. Kirk W. Cameron, Search Committee Chair, cameron@cs.vt.edu.

Salary for suitably qualified applicants is competitive and commensurate with experience.

\*Virginia Tech is an equal opportunity/affirmative action institution.\*
Professional Opportunities

to participate actively in the Graduate Department of Computer Science at the University of Toronto.
Candidates should have (or be about to receive) a Ph.D. in computer science or related field. We seek outstanding applicants with an ability to pursue innovative research at the highest level and with a strong commitment to undergraduate and graduate teaching. Evidence of excellence in teaching and research is required. Salaries are competitive with our North American peers and will be determined according to experience and qualifications.

Applicants should apply online at http://recruit.cs.toronto.edu, and include curriculum vitae, a list of publications, a research and teaching statement, and the names and email addresses of at least three references. Other supporting materials may also be included. We will not accept applications submitted by post.

Review of applications will begin on January 7, 2013 and continue until the position is filled. To ensure full consideration applications should be received by February 4, 2013.

For more information about the Department of Mathematical and Computational Sciences please visit our home page: http://www.utm.utoronto.ca/mathcs-state/

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

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

University of Virginia

Department of Computer Science – School of Engineering and Applied Science
Multiple Tenure Track Faculty Positions

The Department of Computer Science at the University of Virginia seeks to fill multiple tenure track faculty positions at all levels. Candidates should hold a Ph.D. in computer science or a related discipline. We are interested in candidates from all areas who are committed to excellence in research and teaching.

Review of applications will begin on December 17, 2012 and will continue until the positions are filled. For further information and to apply to this posting, please refer to https://jobs.virginia.edu and reference Posting Number 0611014. Please include a CV/Resume, Cover Letter, Statement of Research Interests, Statement of Teaching Philosophy and Contact Information for 3 References – name, email, phone.

UVA is located in Charlottesville, VA. Situated in the beautiful foothills of the Blue Ridge Mountains and close proximity to Washington, DC, Charlottesville consistently ranks among the top cities to live and work in the US. The University is a Carnegie Research I University with a top-ranked medical school, graduate business school, and law school. UVA is consistently ranked as a top public university.

Computer Science is housed in the new 100,000 sq. foot Rice Hall Information Technology Engineering Building. Rice Hall serves as the nexus for research in high-performance computing, wireless health, bioinformatics, computer graphics, cyber-physical systems, computer security and dependability, cryptography, energy conservation, programming languages, and software engineering. Our faculty is comprised of 20 members that include fellows of various professional societies, multiple NSF CAREER award recipients, a Microsoft New Faculty Award Winner, and a Packard Fellow. The University, our location, and our faculty provide a vibrant intellectual environment for conducting research in computing and related disciplines.

The University of Virginia is an equal opportunity/affirmative action employer committed to developing diversity in faculty and welcomes applications from women, minorities, veterans and persons with disabilities.

University of Washington

Departments of Computer Science & Engineering and Electrical Engineering, College of Engineering
Assistant, Associate or Full Professor (Tenure or Research Track)

The University of Washington’s Department of Computer Science & Engineering and Department of Electrical Engineering have jointly formed a UW Experimental Computer Engineering Lab (ExCels).
In support of this effort, the College of Engineering has committed to hiring several new faculty over the forthcoming years. All positions will be full-time joint appointments in both departments (with precise percentages as appropriate for the candidate). This year, we have one or more open positions, and encourage exceptional candidates in computer engineering, at tenure-track Assistant Professor, Associate Professor, or Professor, Research Assistant Professor, Research Associate Professor, or Research Professor to apply. Moderate teaching and service load allows time for quality research and close involvement with students. The CSE and EE departments are co-located on campus, enabling cross department collaborations and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories, a vibrant technology-driven entrepreneurial community, and spectacular natural beauty. Information about ExCels can be found at http://www.excel.washington.edu/

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

Please apply online at http://www.excel.washington.edu/apply with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of at least four references. Applications received by December 1, 2012 will be given priority consideration. Open positions are contingent on funding.

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

University of Washington

Computer Science & Engineering and Statistics, College of Engineering, and College of Arts & Sciences
Assistant, Associate or Full Professor – Search #: AA3336

The Provost of the University of Washington has launched a major effort focused on Data-Driven Discovery, with a commitment to hire several new faculty in this area. In support of this effort, we are seeking candidates for one open-rank tenured or tenure-track faculty positions jointly in the Department of Computer Science & Engineering and the Department of Statistics at the University of Washington. Position will be full-time joint appointment in both departments with precise percentages as appropriate for the candidate. The new faculty will also participate in the UW eScience Institute.

We encourage applications from exceptional candidates at the intersection of computer science and statistics, with a particular focus on machine learning and large-scale statistical analysis. We expect candidates to have a strong commitment to both research and teaching. The joint position will be
Professional Opportunities

open to individuals at all career levels; appointments as Assistant Professor, Associate Professor, or Professor will be commensurate with the candidate’s qualifications and experience. Applicants must have earned a PhD by the date of appointment. All University of Washington faculty engage in teaching, research and service.

The CSE and Stat departments are located less than 5 minutes apart on the Seattle campus, enabling cross department collaborations and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories, a vibrant technology-driven entrepreneurial community, and spectacular natural beauty.

Application Instructions:
Please apply online at https://statcse.cs.washington.edu/apply with a letter of application, a complete curriculum vitae, a statement of research and teaching interests, and the names of at least four references. Applications received by February 1, 2013, will be given priority consideration. Open positions are contingent on funding.

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University of Washington, Tacoma

Institute of Technology
Associate or Full Professor – AA3242

The Institute of Technology at the University of Washington Tacoma is seeking applications for a full-time, tenured Associate or Full Professor, with a primary focus on the B.S. in Computer Engineering and Systems (CES) program, beginning September 16, 2013. The successful applicant will play a senior, leadership role as the program’s coordinator and as part of the Institute’s leadership team. The ABET accredited Computer Engineering and Systems program, which is growing quickly, has approximately 75 majors, and is supported by four of the Institute’s tenure-line faculty, whose research areas include wireless sensor networks, signal processing, controls, signal integrity, embedded systems and cyber physical security. The CES program shares several core courses with the B.S. in Computer Science and Systems (CSCI), collaborates with faculty in the CSCI and B.S. in Information Technology and Systems, and offers electives in the M.S. in Computer Science and Systems degree.

A Ph.D. in Computer or Electrical Engineering or in a closely related field is required. Applicants should have a record of teaching excellence, as well experience in an administrative capacity, and demonstrated success in securing external funding to support research. Experience with an accredited engineering program and in interacting with industry is highly desirable.

The University of Washington Tacoma, one of three UW campuses, is an urban-serving undergraduate and master’s level institution that is changing the face of its region economically, culturally, and architecturally. It maintains close ties to the Seattle and Bothell campuses, providing significant opportunities for collaboration. The Institute of Technology was created in 2001 by a public/private partnership to address the critical industry demand for baccalaureate and master’s level computing and engineering professionals. Please see http://www.tacoma.washington.edu/tech/ for additional information.

Applications should be submitted electronically to http://academicjobsonline.org and include (1) a cover letter describing the applicant’s academic qualifications and experience for this position, (2) a statement of the applicant’s research program, (3) a list of recent publications, (4) a description of teaching philosophy, (5) evidence of teaching effectiveness, (6) a curriculum vitae, and (7) at least three letters of reference. Screening of applications will begin on November 1, 2012, and will continue until the position is filled. Salary is competitive and will be commensurate with experience and qualifications. For additional information, please contact Dr. Orlando Baiocchi by email (baiocchi@uw.edu) or by phone at (253) 692-4727.

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

If you have any questions about the details of this search / position please contact the hiring unit directly.

University of Washington

Computer Science & Engineering
Tenure-Track, Research, and Teaching Faculty

The University of Washington’s Department of Computer Science & Engineering has one or more open positions in a wide variety of technical areas in both Computer Science and Computer Engineering, and at all professional levels. A moderate teaching load allows time for quality research and close involvement with students. Our space in the Paul G. Allen Center for Computer Science & Engineering provides opportunities for new projects and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories as well as a vibrant technology-driven entrepreneurial community that further enhances the intellectual atmosphere. Information about the department can be found on the web at http://www.cs.washington.edu.

We welcome applicants in all research areas in Computer Science and Computer Engineering including both core and inter-disciplinary areas. We expect candidates to have a strong commitment both to research and to teaching. The department is primarily seeking individuals at the full-time tenure-track Assistant Professor rank; however, under unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the full-time rank of Associate Professor or Professor. We may also be seeking full-time non-tenured research faculty at Research Assistant, Associate and Professor levels, full-time postdoctoral researchers (Research Associates) and part-time and full-time annual lecturers and Sr. Lecturers. Applicants for both tenure-track and research positions must have earned a doctorate by the date of appointment; those applying for lecturer positions must have earned at least a Master’s degree or have relevant teaching experience in the course area. Research Associates, Lecturers and Sr. Lecturers will be hired on an annual or multi-annual appointment. All University of Washington faculty engage in teaching, research and service.

Please apply online at https://nordt.cs.washington.edu/apply with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of four references.

Applications received by December 1, 2012 will be given priority consideration. Open positions are contingent on funding.

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Wayne State University

Department of Computer Science
Tenure-Track Faculty Position

Applications are invited for a tenure-track faculty position specialized in the area of health informatics at the assistant professor level beginning in Fall 2013. Candidates are expected to have a Ph.D. in Computer Science or a closely related field and to demonstrate potential for excellence in teaching and research. Candidates with research interests in the area of health informatics, including human-computer
interaction, information retrieval and visualization, data mining, natural language processing, and health data management, for both community health informatics and personalized medicine, will receive the strongest consideration. However, excellent candidates in other areas will also be considered. This position is part of the university’s effort in building Interdisciplinary Program for Obesity Research and Education, and the candidate is expected to work independently as well as to collaborate closely with faculty from the Obesity Center.

The Department of Computer Science has 23 tenured or tenure-track faculty members, with research strengths in the areas of Artificial Intelligence, Bioinformatics, Data Mining, Graphics and Visualization, Software Engineering, and Computer Systems. The research in the department is also highly interdisciplinary with active collaborations with faculty in medicine, engineering, and sciences. The Department has six NSF CAREER recipients, and an external funding exceeding $6M annually. The department currently has over 80 full-time Ph.D. students, along with 60 Master’s students, and 293 undergraduate majors. Further information about the department can be found at [http://www.cs.wayne.edu](http://www.cs.wayne.edu).

The Department of Computer Science is in the College of Engineering. The College has an annual research expenditure of about $20M. Information about the College of Engineering can be found at [http://engineering.wayne.edu](http://engineering.wayne.edu). Wayne State University is a Carnegie Research Extensive University offering more than 350 academic programs through 13 schools and colleges, to more than 32,000 students. Wayne State has approximately $260M annual research expenditures and more than 11,000 graduate students. Wayne State University, in partnership with the University of Michigan and Michigan State University, has a key role in Michigan’s University Research Corridor initiative ([http://urcmich.org](http://urcmich.org)) and is closely involved with TechTown, the area’s business incubator ([http://techtownwsu.org](http://techtownwsu.org)). In addition, within a 20-mile radius of Wayne State campus, several Metro Detroit suburbs are consistently ranked in top 100 in Money Magazine’s Best Places to Live ([http://money.cnn.com/magazines/moneymag/best-places/2012/states/MI.html](http://money.cnn.com/magazines/moneymag/best-places/2012/states/MI.html)).

**Application Instructions**

Applicants should submit a cover letter, statement of research and teaching, and curriculum vitae with the contact information of three references. For full consideration, applications must be received by January 10, 2013.

Apply online at [jobs.wayne.edu](http://jobs.wayne.edu) (position number: 039046). Nominations and inquiries should be directed to Prof. Ming Dong, the Chair of Search Committee, at [mdong@wayne.edu](mailto:mdong@wayne.edu).

Wayne State University is an equal opportunity educational institution/equal opportunity employer.

**Worcester Polytechnic Institute**

**Bioinformatics and Computational Biology**

WPI invites applications for a tenure track (open rank) Professor position with a research focus in Bioinformatics to begin in the fall of 2013. The successful candidate will hold an academic appointment within Biology and Biotechnology, Computer Sciences, or Mathematical Sciences. Supported by the new Life Sciences and Bioengineering Center (LSBC) at Gateway Park, a state-of-the-art, interdisciplinary research facility, WPI is committed to further strengthening its capabilities in the Life Sciences arena. With the exceptional research environment at the LSBC, the successful candidate is expected to develop a robust, externally funded, high profile research program in bioinformatics or computational biology. Applicants should have a Ph.D. in Bioinformatics, Computer Sciences, Biology, Statistics, Mathematics, or a related area, and significant postdoctoral research experience. Resources for startup funding are competitive and commensurate with research experience and accomplishments.

Founded in 1865, WPI is one of the nation’s first technological universities. A highly selective private university located within an hour of Boston, WPI is consistently ranked among the top 60 research institutions by US News & World Report. The university is home to an innovative and intensive project-based curriculum that empowers students with the knowledge and skills to address real world problems around the globe, an approach repeatedly cited for excellence by The Fiske Guide to Colleges and The Princeton Review. WPI offers exceptional teaching and research opportunities, as well as opportunities for collaboration within the university and with our colleagues at the University of Massachusetts Medical School.

Applicants should submit a single pdf-formatted file including a cover letter, curriculum vitae, a statement of accomplishments and future priorities in research and teaching, and a list of three references (with contact information). Applications should be sent to Bioinformaticsfaculty-search@wpi.edu. Review of applications will be conducted on a rolling basis and continue until the position is filled.

To enrich education through diversity, WPI is an affirmative action, equal opportunity employer. A member of the Colleges of Worcester Consortium

**Wright State University**

**Department of Computer Science and Engineering**

**Faculty Positions**

The Department of Computer Science and Engineering (CSE) at Wright State University seeks applicants for up to two positions at assistant, associate, or full rank with rank and tenure status appropriate to qualifications and experience. Candidates for these positions are expected to have an earned Ph.D. in computer science, computer engineering or a closely related field anticipated by the start date with outstanding academic credentials. Candidates applying for a position at the rank of assistant professor must clearly demonstrate the potential to develop a vibrant funded research program that engages graduate students and produces peer reviewed publications while candidates for the rank of associate/full professor must have an outstanding record of funded research and scholarly publications. In addition, candidates must possess excellent communication skills and a commitment to engage in both undergraduate and graduate education.
Professional Opportunities

For one of the positions the departments seeks a faculty member specializing in cyber security including areas such as software security; trustworthy systems; information assurance, security and privacy; mobile and embedded security; computer forensics; and security tools and visualization. Outstanding applicants with a high potential for contributing to the department’s newly developed Master program in Cyber Security are strongly encouraged to apply.

For the other position, the department seeks faculty specializing in Big Data research. Particular areas of interest include, but are not limited to, data management and lifecycle, data analytics, data visualization, data fusion and integration, semantics and ontologies, social and sensor Web, biomedical and health informatics. Outstanding applicants with a high potential for collaborations with existing strengths of the department and the Kno.e.sis Center (http://knoesis.wright.edu) are particularly welcome to apply.

Outstanding applicants specializing in other emerging research areas are also welcome to apply.

The Department has 26 faculty members, more than 500 undergraduate, 75 M.S. and 40 Ph.D. students and offers B.S., M.S. and Ph.D. degrees both in Computer Science and Computer Engineering, and an M.S. in Cyber Security. Information about the Department can be found at: http://www.cs.wright.edu/cse/. The Department is located in the Russ Engineering Center and Joshi Research Center, which includes the Kno.e.sis Center and the Appenzeller Visualization Laboratory. The Department is one of four departments in the College of Engineering and Computer Science, which houses 4 out of 7 of Wright State’s University System of Ohio Centers of Excellence (http://webapp2.wright.edu/web1/coe/category/centers-of-excellence/). Wright State University, an institution of nearly 19,000 students, is located on a spacious campus within a growing suburban community. A variety of affordable and pleasant living environments with schools and parks attractive to professionals are conveniently located close to campus.

Wright State is surrounded by industry leaders including Lexis-Nexis, Reynolds & Reynolds, CSC, Ball Aerospace, Northrop Grumman, Teradata, and SAIC. Wright State is also located adjacent to the Wright-Patterson Air Force Base, which houses the headquarters of the Air Force Research Laboratory. The university is committed to industrial and government partnerships for research and economic development ventures and has a strong institutional commitment to underrepresented groups, women, persons with disabilities, and veterans.

Applicants should provide a brief statement of their research, teaching interests, and professional goals. The application should include a cover letter indicating the rank desired and a complete vita with the names, addresses, telephone numbers and e-mail addresses of at least four references. Applications and supporting information for the Big Data area is completed on-line at: https://jobs.wright.edu/postings/5916 and applications for Cyber Security area is completed on-line at: https://jobs.wright.edu/postings/5914.

Consideration of candidates begins January 1, 2013 and continues until the positions are closed or filled. Salaries and resources are competitive and based on rank. For details and additional information, you may contact Prof. Mateen Rizki, Chair, at mateen.rizki@wright.edu, or Prof. Thomas Wischgoll (for the cyber security search) at thomas.wischgoll@wright.edu, or Prof. Pascal Hitzler (for the Big Data search) at pascal.hitzler@wright.edu.

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