December 3rd Newsletter

To: All CS Undergraduates
From: the CS Academic Office
CS Undergraduate Newsletter

December 3rd Newsletter

Advising and Course Information

* Wondering who your advisor is? See below!

* Discovery courses for freshmen for Spring 2008 -- Registration in Discovery Courses or Discovery Sections of regular courses is limited to freshmen.

* Top 10 Secrets for Breaking into Computer Science / Computer Engineering Fields

* LING 591 SPRING 2008 Seminar: Computational Semantics for Natural Language
  Instructor: Prof. Roxana Girju (girju@uiuc.edu) -- Time: 01:00-02:20 pm Monday and Wednesday. Course Description below.

* The Hoeft Technology & Management Program. The Program is a two year course of study for engineering and business undergraduate students, which leads to a University minor in Technology & Management. The Hoeft Technology & Management Program provides undergraduate students a working knowledge of the fundamental elements of their cross-disciplines and the opportunity to exercise this knowledge by working together on project teams that mirror those found in most companies today.

Scholarships, Research, Conferences and other Opportunities

* $30,000 Lemelson-Illinois Prize for Student Innovation. It is time once again for the call for entries for the $30,000 Lemelson-Illinois Student Prize for invention and innovation, administered by the College of Engineering through the Technology Entrepreneur Center.

* Talbots is offering scholarships to women for education. They will give 5 women a $10,000 scholarship and several $1,000 scholarships. See below for details.

* Apply for the U.S. Department of Energy’s summer research program at Argonne National Laboratory -- application deadline, February 1, 2008.

* The American Council of Engineering Companies of Illinois (ACEC-Illinois) is currently accepting applications for its Annual Scholarship Awards Program. Information and applications are available online at: www.acec-il.org/scholarship.cfm. The application deadline is December 14, 2007.

* Apply for the Anita Borg Memorial Scholarship, a $10,000 for women in Computer Science, sponsored by Google. Deadline is February 1, 2008.

* National Center for Women in Information Technology (NCWIT) Annual Conference - May 14th-May 15th 2008 - Volunteers will be needed!!!

* Games for Girls Competition -- Registration Deadline for Competition: January 31, 2008

* ChicTech Retreat – April 19th-20th 2008 – Volunteers/Counselors will be needed!!! Also, if interested in assisting with High School visits during the fall semester, please contact Samantha Chan at sdchan@uiuc.edu.

* The EYH office (Expanding Your Horizons through Math, Science, and Technology) at ISU holds a one-day event in the spring. The event will be held on Saturday, April 5, 2008

Career Info: Jobs, Internships, Corporate Events, Contests and other opportunities

* Apple Day in CS! – Tuesday December 4, 2007, 3:30-5:30 pm in 2405 Siebel Center

* Interested in working on a research project? with the Knowledge Representation and Reasoning group – See Below

* GE Healthcare in Barrington, IL -- program known as STP, or Software Technology Program, is looking to recruit December 07 and May 08 graduates for full-time positions.*
**Lectures, Symposia, etc.**

* Apple Computer Technology Update Briefing, Developing on the Mac, Tuesday December 4, 2007, 4 – 5 pm, Siebel Center 2405

* Architecture Seminar, Friday, December 7, 2007, 4pm, 4405 SC, “Predictor Virtualization and RegionTracker: Two Ways of Exploiting Multi-Megabyte Caches”, Andreas Moshovos University of Toronto

**ADVISING AND COURSE INFORMATION**

* Wondering who your advisor is?

Answer: You have more than one advisor! All students have a faculty advisor assigned to serve as a mentor, to answer questions about specializations, careers and graduate school. For routine questions about degree requirements, policies and procedures, visit the staff in the CS Academic Office -- the advising office for all CS, Math & CS, and Statistics & CS majors. Office hours are 8:00 to 11:45 am mornings and 1:00 to 4:45 afternoons, M-F. On rare occasions, the office may shut down for meetings or other events, but we usually limit these to an hour at most and schedule them during low-traffic times. You can also ask advising questions by emailing Steve Herzog, the full-time CS advisor, at smherzog@uiuc.edu. To find out more about the academic office and the CS advising resources, visit the CS website's undergraduate advising wiki at [https://agora.cs.uiuc.edu/display/undergradProg/CS+Department+Advising](https://agora.cs.uiuc.edu/display/undergradProg/CS+Department+Advising).

* Peer Advisors wanted! Volunteer to field email questions from fellow CS, Math &CS, and Stats& CS students about courses, workload, student organizations, apartments, and other issues that students are best equipped to address.

We're looking particularly for seniors, juniors and sophomores. Please email Steve Herzog (smherzog@uiuc.edu) with the following information:

Your name:

Your program (CS, Math & CS or Stat & CS):

Your netid:

Issues that you are particularly well able to address (e.g. minors, student organizations, specializations, etc.):

* Discovery courses for freshmen for Spring 2008

The list of Discover Course offerings for Spring 2008 has been posted to the Provost's website: [http://www.provost.uiuc.edu/programs/discovery/Courses.html](http://www.provost.uiuc.edu/programs/discovery/Courses.html)

Registration in Discovery Courses or Discovery Sections of regular courses is limited to freshmen. Here's the rationale for the program as presented by the university: “The Discovery Program helps Illinois students enhance their education through greater interaction with faculty in small classes. The interactive courses also enable faculty to share their research in a particular area with students. It is intended for first-year students only.

Discovery sections cover a wide range of disciplines and enrollment is limited to a maximum of twenty students per section. Some Discovery courses can be used to satisfy General Education requirements or requirements in a major, while others are electives. Check with your adviser to find out if a Discovery course satisfies a requirement for you.”

**Top 10 Secrets for Breaking into Computer Science / Computer Engineering Fields**

We recently polled our mentors for their Top 10 best secrets for helping students break into careers in computer science and computer engineering fields.

Here's what they told us:

**#1:** Consider getting more than one mentor. Get an academic mentor to help you with school strategies, a professional mentor to help you make career path choices, and another mentor working in a field that interests you to learn more about the reality and challenges of his or her job.

**#2:** Start getting internships in year one of your college program. How many internships you experience is not as important as getting as much meaningful work experience as possible. In computer science and engineering, meaningful work can vary from defining requirements for a solution to developing a solution, writing code for a part of a solution, writing test tools, and testing and installing solutions.

**#3:** Stay aware of current trends in your field and keep your skills up to date on the latest tools.

**#4:** Avoid getting a retail or fast-food job to support yourself while in college; instead, seek out related work experience.
#5: Consider scouting for jobs at smaller companies and nonprofits where there will be less competition and the potential for greater responsibilities and learning experiences.

#6: Register at temporary agencies, not only to get experience related to your field but to check out corporate cultures, network, and learn where you feel most comfortable.

#7: Better to take a low-paying job that offers meaningful work experience than a high-paying job of any kind not related to your field.

#8: If you can’t get an internship, work on a project on your own to demonstrate initiative and drive or volunteer to help with someone else’s team project.

#9: Students who can demonstrate self-drive and project experience will rank higher with interviewers. Build something you can show off and be able to discuss the process you used to build it.

#10: Diversity is strength. Seek out mentors and work experiences that will introduce you to a diversity of cultures and a variety of leadership styles. If you can, go home with a friend during school break to visit a different part of the country. Learn Chinese and other languages.

LING 591 SPRING 2008 Seminar:

Computational Semantics for Natural Language

Instructor: Prof. Roxana Girju (girju@uiuc.edu)

Time: 01:00-02:20 pm Monday and Wednesday

Course Description:

Semantics is the study of meaning and knowledge of semantics is important for the understanding of everyday language. Computational Semantics provides models for the creation of various kinds of advanced tools for the automatic processing of natural language, with applications to machine translation, automatic indexing, (multilingual) question answering, textual entailment, text coherence, and so on.

This course provides an introduction to some of the major concepts and recent developments in the computational semantics of natural language. It introduces material that is relevant to computer science, engineering and linguistics. Topics include various representation schemes required for semantic analysis beyond word meaning, with focus on polysemy, metonymy, predicate-argument structure, intentionality, and discourse.

The goals are to provide an overview of the field of Computational Semantics, including concepts, methods, and tools from both a Theoretical Linguistics and a Language Engineering perspective. Moreover, students will become familiar with the techniques and tools needed to develop semantic-based systems. The course will cover fundamental issues in state of the art Computational Semantics tools such as Semantic Parsing, and present its application to Question Answering, Textual Entailment, and Text-to-Scene/Image Generation. The course will also tackle advanced issues, such as techniques and challenges in automatic semantic processing of multilingual corpora.

Organization:

Lecture presentations and guided discussions based on reading of prepared material. Case studies and examples will be used to illustrate the practical application of the main concepts, methods, and tools.

Prerequisites:

The course is open to Linguistics, Computer Science, Computer Engineering, and Library and Information Science students. Background in at least one of the following (or equivalent) courses is required:

LING 406 (Introduction to Computational Linguistics), CS 598 DNR (Machine Learning and Natural Language), CS 546 (Pattern Recognition and Machine Learning), ECE 594 (Mathematical Models of Language), CS 225 (Data Structures), or CS 273 (Theory of Computation).

For more information contact Roxana Girju at girju@uiuc.edu (Also: Foreign Language Bldg. #4016B or 2043 Beckman Institute)

* The Hoeft Technology & Management Program.

As an advisor of undergraduate students, I would like you to encourage sophomore students to apply to The Hoeft Technology & Management Program. The Program is a two year course of study for engineering and business undergraduate students, which leads to a University minor in Technology & Management. The Hoeft Technology & Management Program provides undergraduate students a working knowledge of the fundamental elements of their cross-disciplines and the opportunity to exercise this knowledge by working together on project teams that mirror those found in most companies today.

The curriculum, consisting of seven customized courses, focuses on preparing students for careers in technical, interdisciplinary, and team-based industry environments. Engineers are taught the importance of market forces and the financial implications of technology investment while business majors are taught the capabilities and constraints of engineering disciplines and the technical aspects of process and product development.
The T&M Program also includes a significant set of extra curricular activities which allows students to build key career skills and gain hands-on experience in a real-world environment. Additionally, students have the opportunity to spend ten days in China or India on a simulated international business trip during their junior year.

Admission to the program is competitive and requires application by prospective students during the spring semester of their sophomore year. Students then enter the program in their junior year and pursue the prescribed course of study while satisfying requirements for a bachelor's degree in their engineering or business major.

Although most students accepted into the T&M Program have already demonstrated leadership skills on campus and are high academic achievers (our average GPA is 3.7) the Program also seeks to admit students who can leverage the Program to develop their full potential.

For additional details about the Program, direct students to our website at www.techmgmt.uiuc.edu or contact me directly at 4-0838 or jfc@uiuc.edu.

Our admissions calendar for 2008 is as follows:

Information Sessions 5:00 – 6:00 PM

Tuesday, January 15th – 1320 Digital Computer Lab (DCL)

Wednesday, January 16th – 66 Library

Thursday, January 17th – 240 Wohlers Hall

Applications accepted January 18th – 24th

Application deadline is Thursday, January 24th at 11:59 pm

Interviews will take place early February, and students will be notified of their admission decision before spring break.

Thanks for your support.

John F. Clarke
Assistant Dean
218 Wohlers Hall
Champaign, IL 61820
217-244-0838
jfc@uiuc.edu

http://www.techmgmt.uiuc.edu

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SCHOLARSHIPS, RESEARCH, CONFERENCES AND OTHER OPPORTUNITIES

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*$30,000 Lemelson-Illinois Prize for Student Innovation

It is time once again for the call for entries for the $30,000 Lemelson-Illinois Student Prize for invention and innovation, administered by the College of Engineering through the TechnologyEntrepreneurCenter. Applications are available online at www.30kprize.uiuc.edu, or at the TechnologyEntrepreneurCenter (313 Ceramics Building, 105 S. Goodwin Ave., Urbana). Applications are due by 5:00 PM on November 30, 2007.

Have questions? You can attend an information session to learn more about the prize...there are two information sessions remaining. Dinner will be served at all info sessions.

The prize is open to all undergraduate and graduate students at the University of Illinois at Urbana-Champaign, regardless of major or department. The goals of the prize are to reward those students who exemplify the innovation and invention occurring at the University. You can learn more about the prize at www.30kprize.uiuc.edu.

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Talbots is offering scholarships to women for education.

http://www1.talbots.com/about/scholar/scholar.asp

To fill out the applications use the above link.
THE PROGRAM

In keeping with its long-standing tradition of serving the community, Talbots Charitable Foundation offers a unique, national $100,000 scholarship program: a fund just for women who earned their high school diploma or GED at least 10 years ago, and who are now seeking a college degree.

This scholarship program is administered by Scholarship Management Services, a department of Scholarship America. Scholarship America is a national nonprofit educational support and student aid service organization that seeks to involve and assist the private sector in expanding educational opportunities and encouraging educational achievement. Awards are granted without regard to race, color, creed, religion, disability, or national origin.

ELIGIBILITY

Applicants to the Talbots Women's Scholarship Fund must -

• Be women currently residing in the United States;
• Be women who have earned a high school diploma or their GED on or before September 1998;
• Be enrolled or planning to enroll in a full- or part-time undergraduate course of study at an accredited two- or four-year college, university or vocational-technical school;
• Be attending the full 2008-2009 academic year and receiving a degree no earlier than May 2009; and
• Have at least two semesters (24 credit hours or more) remaining to complete an undergraduate* degree as of the beginning of the 2008 fall academic term.

*Students who have previously obtained a bachelor's degree are not eligible to apply.

Talbots and Scholarship America employees or family members are not eligible to apply to this program.

Only the first 1,000 eligible applications received will be processed.

AWARDS

Up to 55 scholarships will be awarded. Five women will each be awarded $10,000 scholarships and 50 women will each be awarded $1,000 scholarships. Only applicants seeking a bachelor's degree from a four-year college or university are eligible to receive a $10,000 award. Awards are one-time only and not renewable.

Awards are for undergraduate study only.

APPLICATION

Interested students must complete the attached application and essay requirement and mail them along with a current, complete official college or vocational-technical transcript of grades for all prior courses taken. If the applicant's high school graduation date is not printed on the college transcript, a copy of the high school transcript, high school diploma or other documentation must be enclosed showing the high school graduation date. All materials must be sent to Scholarship America postmarked no later than January 2, 2008. On-line transcripts and grade reports are not acceptable. Copies of the official transcript(s) are acceptable.

Applicants are responsible for gathering and submitting all necessary information. Instructions for completing the Financial Data section of the application are found below. Applications are evaluated on the information supplied; therefore, answer all questions as completely as possible. Incomplete applications will not be evaluated.

Once an application is submitted to Scholarship America, no additional information or changes to the application will be accepted.

DEADLINE

The deadline for applications is January 2, 2008 or until the first 1,000 eligible applications have been received, whichever is earlier.

SELECTION OF RECIPIENTS
Scholarship recipients are selected on a number of criteria, including academic record, scholarship essay, potential to succeed, leadership and participation in community activities, honors, work experience, a statement of educational and career goals, and an outside appraisal. Financial need as calculated by Scholarship America must be demonstrated for the student to receive an award.

Selection of $10,000 scholarship recipients is made by a Talbots Charitable Foundation-sponsored committee. Applicants to the program may be contacted and, if selected as a finalist for a $10,000 award, requested to provide a letter of reference at that time.

All applicants will be notified no later than the end of July 2008. Not all applicants to the program will be selected as recipients.

**PAYMENT OF SCHOLARSHIPS**

Scholarship America processes scholarship payments on behalf of Talbots. Payments of $1,000 awards are made in equal installments on August 15 and December 30. Scholarship America will arrange a schedule of payments with the recipients of the $10,000 awards to best meet individual needs. Checks are mailed to each recipient's home address and are made payable to the school for the student.

**OBLIGATIONS**

Acceptance of the scholarship constitutes permission for Talbots to use recipients' names, biographical information, and pictures for publicity purposes, and agreement to attend a scholarship award ceremony at Talbots expense, if such a ceremony is held. Otherwise, recipients have no obligation to Talbots. They are, however, required to supply Scholarship America with complete transcripts and to notify Scholarship America of any changes of address, school enrollment, or other relevant information.

**MISCELLANEOUS**

Talbots reserves the right to interpret and review the conditions and procedures of this scholarship program and to make changes at any time including termination of the program.

Void where prohibited. All federal, state, and local laws and regulations apply. Recipients shall be responsible for any and all taxes.

**ADDITIONAL INFORMATION**

Questions regarding the scholarship program should be addressed to:

**Talbots Women's Scholarship Fund**

Scholarship America

One Scholarship Way, P.O. Box 297

Saint Peter, MN 56082

Telephone: (507) 931-1682

*Apply for the U.S. Department of Energy's summer research program at Argonne National Laboratory – application deadline, February 1, 2008.*

The U.S. Department of Energy's (DOE) Argonne National Laboratory, a major research center, is pleased to announce opportunities for college and university undergraduate students to participate in the Laboratory's ongoing research programs. In addition to such opportunities, the U.S. Department of Energy is directly sponsoring research participation at other DOE facilities. For more details, see the following:

http://www.dep.anl.gov/p_undergrad/summer.htm

*The American Council of Engineering Companies of Illinois (ACEC-Illinois) is currently accepting applications for its Annual Scholarship Awards Program. Eligible candidates must be:*

- U.S. citizens
- currently enrolled in an ABET (Accreditation Board for Engineering & Technology) accredited engineering program in Illinois
- pursuing a Bachelor's, Master's, or PhD degree
- entering their Junior, Senior, Fifth, Master's or Graduate year in the Fall of 2008.*
Scholarship award winners will be selected by a committee of ACEC-Illinois Member Firm Principals and based on academic excellence, recommendations and an essay addressing the topic "What is the role or responsibility of the consulting engineer or land surveyor relative to shaping and protecting the natural environment?" Scholarships are awarded in June 2008.

Last year, ACEC-Illinois awarded $23,500 to 14 students at the state level. The top applicant received a $4,000 scholarship and thirteen students each received a $1,500 "Named" Scholarship sponsored by ACEC-Illinois Member Firms. In addition, each year the top applicant is forwarded to the American Council of Engineering Companies (ACEC) for the National Scholarship program, where they compete for additional Scholarship Awards.

Information and applications are available online at: www.acec-il.org/scholarship.cfm.

The application deadline is December 14, 2007.

The American Council of Engineering Companies of Illinois is a statewide association of independent engineering firms which represents the business and professional interests of over 230 member firms, which together employ over 10,000 engineers, architects, technicians and support personnel. ACEC-Illinois is a member organization of the American Council of Engineering Companies, a federation of state and regional councils which represent the interests of more than 5,000 private-practice engineering firms.

For more information on the ACEC-Illinois scholarship program or ACEC-Illinois contact:

Gaye Kick
(217) 529-7430
acecgaye@acec-il.org

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Anita Borg Memorial Scholarship

Dr. Anita Borg (1949 - 2003) devoted her life to revolutionizing the way we think about technology and dismantling the barriers that keep women and minorities from entering the computing and technology fields.

As part of Google's ongoing commitment to furthering Anita's vision, we are pleased to announce the 2008 Google Anita Borg Scholarship. A group of female undergraduate and graduate students will each receive a $10,000 scholarship for the 2008-2009 academic year. All finalists and recipients will also be invited to an all-expenses paid trip to the Google Headquarters in California April 3-5, 2008.

Eligibility Requirements

Candidates must be:
• Entering their senior year of undergraduate study or be enrolled in a graduate program in 2008 – 2009 at a university in the United States
• Computer Science, Computer Engineering, or related technical field majors
• Enrolled in full-time study in 2008 - 2009
• Maintain a cumulative GPA of at least 3.5 on a 4.0 scale or 4.5 on a 5.0 scale or equivalent in their current program

For complete details, please visit us at http://www.google.com/anitaborg

Application deadline is Friday, February 1, 2008.

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* NationalCenter for Women in Information Technology (NCWIT) Annual Conference - May 14th-May 15th 2008 - Volunteers will be needed!!!

NCWIT Conference

When: May 14-15th

Where: UIUC

Contact: Sonya Harris (lharris2@uiuc.edu)

The mission of the NationalCenter for Women & Information Technology is to ensure that women are fully represented in the influential world of information technology and computing. And they are holding their conference here at UIUC!! We're looking for volunteers to help out this event. This is a NATIONAL event and it will favor highly for our Department to host this event. If you're interested, contact Sonya and more information is to follow.

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* Games for Girls Competition

We received word that we were awarded funding for this year's Games for Girls Competition. Please share with students. We are currently updating the website but please feel free to contact me or Cassandra Chan (cjchan2@uiuc.edu), student coordinator, if you have any immediate questions. Visit: www.cs.uiuc.edu/g4g
FYI: This year, there will not be any adult judges. Judging will take place by the high school girls during the ChicTech Retreat.

The 'Important Dates' for the Competition are as follows:

**Important Dates**

1. Registration Deadline for Competition: January 31, 2008
   - Game Submission including evaluations and game instructions - April 9, 2008
   - Vendor Information Form - 4/09/2008 *(in order to receive cash prizes)*
2. Video Submission: April 13, 2008

*ChicTech Retreat - April 19th-20th 2008 - Volunteers/Counselors will be needed!! Also, if interested in assisting with High School visits during the fall semester, please contact Samantha Chan at sdchan@uiuc.edu.

The EYH office (Expanding Your Horizons through Math, Science, and Technology) at ISU holds a one-day event in the spring to promote an increase in the number of young women who pursue education and careers that involve math, science, and/or technology. The day revolves around three hands-on workshops, during which participants in grades 5-10 have the opportunity to learn from women experienced in a career based in science, math, or technology.

If you and/or your group are interested in leading a workshop for this event, please contact Sonya Harris (iharris2@uiuc.edu). Cinda and/or Prof. Pitt can train female students on possible hands-on activities.

The event will be held on Saturday, April 5, 2008 so you will have plenty of time to plan an exciting hands-on activity for the girls. You can also get more information regarding the event by going to their website at www.eyh.ilstu.edu.

**CAREER INFO: JOBS, INTERNSHIPS, CORPORATE EVENTS, CONTESTS AND OTHER OPPORTUNITIES**

*Apple Day in CS! – Tuesday December 4, 2007, 3:30-5:30 pm in 2405 SiebelCenter*

Date: Tuesday December 4, 2007
Time: 3:30-5:30 pm
Location: SiebelCenter 2405

3:30 - Consulting Engineer for Programming and Development, Steve Hayman presents a technical lecture to interested students and faculty.

4:30 - Science Market Manager, Michael Gonzales presents Apple in the Sciences overview and honors Professor Michael Heath, Interim Department Head and Fulton Watson Copp Chair in the Department of Computer Science, as an Apple Science Innovator, one of ten honorees in the nation.

Details to follow by Friday 11/30.

**Position Announcement Undergraduate Library Student Assistants**

The Undergraduate Library is seeking applicants for the position of Student Assistant in its Information Services unit who are interested in developing professional and leadership skills. Applicants should be willing and able to work from 12-20 hours per week in a fast-paced environment.

**Duties:**

Perform multiple customer service functions including, but not limited to, charging, discharging and renewing books, media and technology items, collaborate with co-workers on projects, work with and troubleshoot technology, learn to navigate complex databases, maintain collections, and master general front desk management responsibilities.

**Acquired Skills:**
Student Assistants will be educated in various aspects of team work, leadership, professional work ethics, records management, statistics keeping, conservation and preservation, and self-evaluation. They will develop verbal and written communication skills. In addition, Student Assistants will also have the opportunity to shape workflow and policies, learn professional discipline such as reliability and punctuality, and gain a greater understanding of the library and information profession.

**Qualifications:**

Required - Exceptional customer service; attention to detail; excellent verbal and written communication skills; reliable and punctual.

Additional Details:

Beginning January 14, 2008, the Undergraduate Library will be open 24 hours from Sunday through Thursday and from 8am – 10pm on Fridays and 10am – 10pm on Saturdays.

We are hiring students who will be able to work 12 -20 hours per week. Night owls welcome!

Pay rate: $7.50/hr from 8:00am – Midnight and $9.50/hr from Midnight – 8:00am.

To Apply:

To apply, please send application to the Undergraduate Library, Attn: Debora Pfieffer, 1402 W. Gregory Drive, Urbana, IL 61801. Email applications to: dpfieffe@uiuc.edu. Applications are taken on a rolling basis until all positions are filled.

Application
http://www.library.uiuc.edu/administration/human/pdffiles/studentapp.pdf

* Interested in working on a research project?

I am Postdoc associated with the Knowledge Representation and Reasoning group and am looking for motivated student(s) that would be interested in working on neuroscience-motivated algorithms.

We have developed a new classification algorithm and will be comparing it with current methods. Projects include: comparisons between classifiers, development/testing of appropriate machine learning algorithms, merging models and evaluation of 'recognition logic'. Some relevant coursework in these aspects is preferred.

If interested, please contact Tsvi Achler achler@uiuc.edu.

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My name is Alex, and I'm a UIUC compsci alum (graduated in May 07) currently working for GE Healthcare in Barrington, IL. I am part of a program known as STP, or Software Technology Program, and we're looking to recruit December 07 and May 08 graduates for full-time positions. Though you can read below for a more detailed description, STP is a great deal if you're interested in a software development job after college; you'll have a variety of rotational assignments to expose you to many products in different stages of the development lifecycle, you'll receive a MS in computer science from UIUC (which GE will pay for up front), and finally you'll get plenty of in-house training as well.

It seems as if STP is not as well-known as GE’s other leadership development programs, so we’re trying to reach out to student groups on different campuses to try and spread the word. If you can forward this along to the rest of your organization I'd appreciate it quite a bit. As I mentioned, we're primarily looking for full-time employees, but we've also got a few internship opportunities if anyone is interested but will not be graduating in the next academic year.

If you're interested in the STP program and would like to apply, please follow the directions referenced below and submit your resume through gecareers.com ASAP, as the application deadline is approaching quickly. If you have any questions about the program, feel free to send me an e-mail as I'd be more than happy to talk to you. The more Illini we can get up here, the better.

Below is the official description of the program. Thanks for your time.

- Alex

The Software Technology Program is an intense three-year, full-time, rotational assignment program currently offered at GE Healthcare. It is focused on software engineering and medical informatics with the mission of hiring, growing and nurturing the best software engineering talent. It includes a masters degree in Computer Science, academic training in Medical Informatics, and a variety of on the job technical projects and experiences aligned with critical business objectives that provide the skills necessary for future technical innovators at GE.

We are looking for fresh graduates with a 4-year bachelors degree in CS or CE with a strong technical aptitude and passion for software and IT and who wish to pursue a career in software engineering, design and development. A minimum GPA of 3.0 and unrestricted authorization to work in the US is required. We are currently recruiting for 2008 and looking for engineers graduating from college either in Dec 2007 or May 2008.
If you would like to hear more about this program please feel free to contact me. If you are interested in applying for this position I advise that you apply for this through gecareers. To do so you can go to:

www.gecareers.com/campusinterview

Select GE Healthcare from the dropdown list on the page that comes up. Click on the Apply button next to the Software Technology Program (STP) and follow the steps to apply.

LECTURES, SYMPOSIA, ETC.

* Apple Computer invites you to a Technology Update Briefing, Developing on the Mac

When: Tuesday December 4, 2007, 4 – 5 pm

Where: SiebelCenter 2405

Join Steve Hayman, from Apple, Inc. for a look at the command line, compilers, scripting environments, open source tools, etc. Steve is a National Consulting Engineer with Apple’s US Education Team, specializing in Apple’s developer tools and UNIX core.

Steve will cover software development with Apple’s Xcode tool suite on Mac OS X 10.5 Leopard, and discuss and show how to develop applications with Xcode, Interface Builder, Quartz Composer, Automator, Instruments, WebKit, open source technologies and whatever other components of Mac OS X we can squeeze into the time available.

During the presentation, Steve plans to discuss or demonstrate:

- Automator and why it reminds one of Unix pipelines
- Applescript, why it is either a great programming tool or a mutant language from the moon
- Xcode and Interface Builder for creating applications
- Reusable frameworks included in OS X - how you can reuse our stuff to get a head start

Watch and learn as he builds something with Xcode and Interface Builder and maybe a small amount of Objective-C. If we are lucky, this involves an inadvertent demo of the debugger as well.

Architecture Seminar

Friday, December 7, 2007

4pm, 4405 SC

Andreas Moshovos

University of Toronto

*Predictor Virtualization and RegionTracker: Two Ways of Exploiting Multi-Megabyte Caches

Modern on-chip caches continue to grow in size with multi-megabyte caches being the norm today. Two techniques that revisit the design and role of on-chip caches will be presented: Predictor Virtualization and RegionTracker.

Predictor Virtualization can drastically reduce the cost or improving the accuracy and effectiveness of predictor-based techniques. Instead of demanding large, dedicated resources, Predictor Virtualization spills metadata in the memory hierarchy. It will be shown that a virtualized state-of-the-art memory prefetcher needs about 1KB of dedicated resources compared to the 70KB needed without virtualization. A number of additional opportunities facilitated by Predictor Virtualization will be discussed.

RegionTracker, is a framework for implementing coarse-grain optimizations in the on-chip memory hierarchy. As several recent works have demonstrated, coarse-grain information and management can improve performance and power in the on-chip memory hierarchy. RegionTracker aims at eliminating the area and complexity costs associated with existing ways of implementing such coarse-grain optimizations. To demonstrate the potential of RegionTracker, it will be shown that it improves the effectiveness of a broadcast elimination technique "for free", that is without requiring any additional resources compared to a conventional block-based cache of the same capacity. Implementing Stealth Prefetching over RegionTracker will also be discussed.

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