Dear CSE Students:

Welcome to the fourth newsletter of the fall 2013 semester.

**News from the Undergraduate Program:** Please check Oasis for your registration date and time. Register early to get the courses that you need for the spring 2014 semester. If you are planning on graduating at the end of the summer 2014 semester then contact Dr. Kouri to request a permit for CIS 4250.

**News from the Graduate Program:** Important deadlines are coming up. Application to Admission to Candidacy is due Friday, November 22. You will only be able to register for dissertation hours for the Spring once your application has been approved. Applications for Graduation in Spring 2014 are due Friday, December 6. For all deadlines, please see the Graduate calendar on the CSE website. All forms can also be found at http://www.cse.usf.edu/graduate/current_students/graduate_forms.

Attached are announcements for the following (please note that this listing does not imply University or Department endorsement in any way):

- Scholarship to study in Oxford for one year
- Frost Scholarship to Oxford
- Microsoft College Scholarship Program
- Montana State University Tenure-Track Positions
- AccessComputing: Internships and Mentoring for Students with Disabilities in Computing Majors
- Intern Position at Summit Software Design
- IT Security Analyst, MSC – Daytona Beach
- Nielsen full-time position
- Performance Engineering for Serve Enterprise
- Feld Entertainment .NET Application Developer
- Listing of Internship Positions

Regards,

Ken Christensen
Director of the Undergraduate Program (and Newsletter Editor)
Email: christen@csee.usf.edu

The archive of old newsletters can be found at http://www.cse.usf.edu/newsletter
Scholarship to study in Oxford for one year

Greetings, please let students and faculty know about this opportunity to study at Oxford for one year Master’s Degree in STEM, Philosophy or History of Science or Archaeological science fields. **Students apply directly to Oxford departments no later than early January.** Open to U.S. citizens and permanent residents attending State University of Florida institutions. **Award:** 100% college and university fees plus living costs stipend. Contact Dr. Linda Lucas, Director of Office of National Scholarships, lucasl@usf.edu for more information.

http://www.ox.ac.uk/feesandfunding/prospectivegrad/scholarships/university/frost/

Here are the programs included:

- MSc Applied Statistics
- MSt Archaeological Science
- MSc Clinical Embryology
- MSc Endovascular Neurosurgery
- MSc Global Health Science
- MSc Integrated Immunology
- MSc Mathematical Modelling & Scientific Computing
- MSc Medical Anthropology
- MSc Neuroscience
- MSt Philosophy of Physics
- MSc Radiation Biology
- MSc Archaeological Science
- MSc Biodiversity, Conservation & Management
- MSc Computer Science
- MSc Environmental Change & Management
- MSc History of Science, Medicine & Technology
- MSc Mathematical & Computational Finance
- MSc Mathematics & Foundations of Computer Science
- MSc Nature, Society & Environmental Policy
- MSc Pharmacology
- MSc Psychological Research
- MSc Water Science, Policy & Management
Frost Scholarship to Oxford

You may have heard the buzz about this extraordinary opportunity to fund some USF students at Oxford next year. This email gives you the details on this new **Frost Scholarship to Oxford** and asks your help in identifying eligible students whom you probably already know because they are outstanding! We are hoping for 4-5 applicants at least. Eligible fields are listed below.

This is **only** for undergraduate students studying STEM fields in the State University of Florida system who are currently seniors or in a joint degree program such as BA/MA. There are 10 scholarships per year funded for the next five years. This scholarship pays for all expenses for a one year master’s degree in certain science areas, listed below and in this link: [http://www.ox.ac.uk/feesandfunding/prospectivegrad/scholarships/university/frost/](http://www.ox.ac.uk/feesandfunding/prospectivegrad/scholarships/university/frost/). Please share this information as you see fit.

This year, eligible students are current undergraduates only, **graduating in May or August 2014**. Students need to apply to their Oxford program no later than January 24, 2014 and perhaps earlier if required by the program to be automatically considered for the Frost Scholarship. There is no separate scholarship application.

There is a £50 application fee for each application to graduate study made. It is not possible to apply for the application fee to be waived.

Make an appointment to see a scholarship advisor here:

Program Overview: Microsoft College Tuition Scholarships are to encourage students to pursue studies in Computer Science and related technical disciplines. Chosen applicants will be awarded scholarships in recognition of their love for software development, their academic excellence and their passion for making a difference in the software industry.

Microsoft places value in encouraging under-represented groups to pursue computer science and other technical degrees. As such, a large majority of our scholarships will be awarded to female students, under-represented minority students (African-American, Hispanic or Native American) or students with disabilities. We will review all applications and select final candidates on the basis of eligibility, quality of application, displayed interest in the software industry, commitment to leadership and financial need. Scholarship recipients will be announced the week of March 10th, 2014.

The Details: Scholarships are awarded in full or partial amounts for the 2014-2015 academic year. Full scholarships will cover tuition for the 2014-2015 academic year as posted by the financial aid office at your college or university. Microsoft will make payments to the designated school – these funds are not transferrable to other institutions and may be used for tuition only. All recipients of the scholarship will be required to apply for, and complete if offered, a salaried Summer Internship of 12 weeks or more at Microsoft here in Redmond, Wa. Microsoft reserves the right not to offer a position to the scholarship winner if an appropriate match cannot be found.

Criteria: Students must be enrolled full-time in a bachelor’s degree program at a 4-year college or university in the US, Canada or Mexico at the time the application is submitted. Students must have satisfactory progress toward an undergraduate degree in computer science, computer engineering or a related technical discipline such as math or physics with a demonstrated interest in computer science. The student must have a 3.0 cumulative grade point average out of possible 4.0, or 4.0 out of possible 5.0 scale.

Apply Today!
Applications must be received by our January 31st, 2014 Deadline. You must apply via email complete with the following items (all are required to be considered) to: scholars@microsoft.com

1. Resume: including contact info, major & graduation date
2. A copy of your current academic Transcript
3. Answer the following:
   a. What is your estimated tuition cost for 2014-2015 Academic Year and to demonstrate financial need, how are you currently funding your education?
   b. Is your tuition in state, out of state, private or international?
   c. Would receiving a Microsoft scholarship adversely impact any other financial aid you will be receive in this same academic year?
4. Short Answer Essay Questions:
   a. Tell us why you deserve this scholarship!
   b. How do you demonstrate passion for technology outside of the classroom?
   c. Tell us about the toughest technical problem you’ve worked on, how you addressed it, your role (if team-based) in reaching the outcome, and the final solution.
   d. Describe a situation which demonstrates your initiative and willingness to go above and beyond.
5. Letter of Referral: from a faculty member or academic advisor who knows your work (must come from faculty’s email)
6. Apply: for a Microsoft Summer Internship @ http://www.microsoft.com/university - please include a screenshot of your application confirmation

Optional: Gender/Ethnicity/Disability: if you would like this information to be considered with your application, feel free to include it.
Montana State University Tenure-Track Positions

The Montana State University Computer Science Department is seeking to hire one (possibly more) tenure-track positions in either

(1) the broad area of big data - inclusive of data science, data management systems, analytics, social media, computational science, visualization, intelligent systems, security, etc.

(2) computer science education - someone who can research and implement best practices that attract, retain and graduate significantly larger numbers of students

Vacancy Ad: http://www.montana.edu/jobs/faculty/14-137

Our Department: http://www.cs.montana.edu/

If you would pass this information along to anyone who might enjoy working at a Carnegie Very High Research University (RU/VH) in beautiful Bozeman, Montana, I would greatly appreciate it.

Thanks.

Cheers,

John Paxton
Professor and Department Head
Computer Science Department
Montana State University
AccessComputing: Internships and Mentoring for Students with Disabilities in Computing Majors

With the new school year underway, it's a great time for students to think about their professional development and their career plans. AccessComputing would like to invite your students with disabilities who are pursuing computer science or other computing-related majors to join our AccessComputing team. AccessComputing, a National Science Foundation funded project, aims to increase the participation of people with disabilities in computing careers.

Student team members engage in online mentoring, receive professional development support, and are eligible to request funding for internships, travel to conferences, and tutoring. To join the team, students must complete and submit an application, available online at: [http://www.washington.edu/accesscomputing/team_app.html](http://www.washington.edu/accesscomputing/team_app.html)

Please forward this to students that you work with. For more information or help with the application, students are encouraged to contact Brianna Blaser at blaser@uw.edu

Best,
Brianna

Brianna Blaser, Ph.D.
Counselor/Coordinator, DO-IT
[www.washington.edu/doit](http://www.washington.edu/doit)
University of Washington
4545 15th Ave NE, Suite 100 | Seattle, WA 98105
[206-221-4163](tel:206-221-4163) | fax: [206-221-4171](tel:206-221-4171) | blaser@uw.edu
Intern Position at Summit Software Design

Title: Intern

Description:
This is a part-time position. You will be assisting with C# tasks and with adding features to a PHP website.

You will have the potential to telecommute, and can have a flexible schedule.

Key responsibilities:
Using PHP to add new features to websites, assist senior developer with C# tasks.

Required:
Candidate should be a Junior or Senior, working on a Bachelor’s degree in Computer Science, Information Systems or Computer Engineering, with a minimum GPA of 3.5 within the major field of study.

Preferred:
Experience or course work using PHP, C# and/or WordPress.

PLEASE SEND RESUME TO gbonyata@SummitSoftwareDesign.com

Granville Bonyata
gbonyata@SummitSoftwareDesign.com
Summit Software Design, Inc.
St Petersburg, FL
IT Security Analyst, MSC – Daytona Beach, FL

*Relocation available*

The IT Security Analyst serves as an Information Security Analyst to internal business units and support organizations by providing research, analysis, and guidance on management, operational and technical security requirements and solutions for business and technology initiatives.

MCS is a business unit of Masco Corporation, a Fortune 500 company. MCS is dedicated to providing outstanding service for builder customers by offering a wide range of installation capabilities, logistical know-how and unique services on a national level. Our sister companies include: Delta Faucet Company and Behr Process Corporation.

Primary Job Responsibilities:

- Provides security risk assessments, security requirements analysis, perform reviews, security testing oversight, and risk remediation planning.
- Implement and maintain security monitoring, data loss prevention, and other security owned systems.
- Provide knowledge transfer and guidance to other team members while also striving to maintain technical knowledge and business acumen within the information security discipline.
- Work with IT Services in technologies such as firewalls, LDAP, server/workstation hardening, patching, and encryption.
- Represent information security considerations in approved System Development Life Cycle, Change Management, Production Support and technology-enabled projects.

Technology Skills and Strengths:

Effectively interact and communicate with vendors, business partners, and/or cross functional teams to manage and coordinate activities as required.

- Prioritize effectively according to department needs and ability to organize a large number of changing variables.
- Must have a thorough understanding of the following technologies: firewalls, protocol analysis, SEM, vulnerability management, web proxy, Windows, Linux, Unix, Electronic evidence discovery, forensics, data loss, policy enforcement, encryption algorithms and methods.
- Outstanding communication, writing and inter-personal abilities, including skills such as attitude, diplomacy and persuasiveness, analytical ability. Must be able to communicate technical information in a clear and concise manner across the organization and at varying levels; ability to produce clearly written technical documentation.

Experience and Education:

- Bachelor’s degree in Computer Science or related discipline or equivalent experience
- 2+ years as an information security practitioner.
- Appropriate technical skills in security risk assessment, requirements development, secure design analysis, architecture assessment and security testing of applications and systems.

- Strong knowledge of business practices and processes in evaluating, and implementing cyber and information security architectures, technologies, standards, and practices to secure applications and IT systems. Working knowledge of Sarbanes-Oxley, PCI-DSS, HIPAA regulations a plus.

- Certified Information Systems Security Professional (CISSP), CISA, GIAC or other equivalent security certifications preferred.
Nielsen is looking to immediately hire a fresh graduate in CS, Engineering or MIS. The job description in brief is as follows:

Will help to support all of the buy insights programs (Workbench, CPL, RMO, Analytics, etc) along with other project specialists. This support can be in many forms:

- Assisting the programs with tollgate processes
- Running, updating the program ishare sites
- Assisting the finance lead in processing invoices, tracking headcount, and other financial tasks
- Doing light business analysis and project management work (as they are capable)
- Organizing buy insight town halls
- Running the monthly programs like recognition, etc.
- Taking on other program tasks from program managers

We want someone who wants to be business analyst or PM in the future. I’m looking for the smartest person I can find. They should be good with MS office and communications to start with.

This is a great opportunity for a smart and energetic individual. The group is high profile and there will be lots of great projects to work on, with opportunities to shine and move up in their career.

Please send me any resumes of such recent graduates and I will work with the hiring director and HR to push them forward.

Thanks for the help!

Thanks,

Ipermachos Makris
Program Manager - GBS Engineering Strategic Platforms
501 Brooker Creek Blvd
Oldsmar, FL 34677
Office: 813.366.4519
Email: Ipermachos.makris@nielsen.com
Performance Engineering for Serve Enterprise

Position: Performance Engineer

Job Description

Serve Enterprise is a wholly-owned subsidiary of American Express. Serve Enterprise provides cutting edge technological services in alternative payments in an innovative payment processing platform, payment card network, and new consumer payment solutions to the Enterprise Growth division of American Express. Serve is growing extremely fast and maintains a start-up agile atmosphere.

QA Analyst is part of the team that is responsible for performance and quality assurance of software applications. Candidate will be a self-starter who will grow the scope of the role over time. Will work with architects and products and project stakeholders on strategies and road-map for platform performance through performance engineering throughout the product life-cycle. Collaborate closely with technical leaders, application developers, systems engineers to ensure performance issues are addressed and remediated in a timely manner. Candidate must be responsible for creating test plans, test cases and conducts various types of tests to measure the performance. Applies statistical rigorous analysis to measurements and pin-point performance issues back to the code, configuration settings and infrastructure components. Excellent communication skill and ability to coordinate testing effort across multiple teams are the key requirements.

Responsibilities

Hands on coding experience in any Object Oriented Programming language.

Good understanding of software development process.

Ability to identify Non-Functional requirements.

Very passionate about problem solving, performance tuning, scalability.

Highly curious to learn cutting-edge technologies and other testing techniques and methodologies.

Well versed in testing and quality assurance.

Good understanding of OLTP database and data infrastructures.

General knowledge about connection pooling, caching, multi-threading, garbage collection and tuning

Willing to work in a team environment and communicate effectively with peers and superiors by both leading and following depending on need.

Ability to move between tasks and multi-tasking capability.

Work under pressure, uncertain schedules and uncertainty and to achieve results with minimal supervision or direction.

Very detail oriented and makes recommendations to minimize risks related to functional, integration and performance bottlenecks and visualize problems.

Familiar with performance engineering process and practices.
Feld Entertainment is the worldwide leader in producing and presenting live touring family entertainment experiences that lift the human spirit and create indelible memories, with 30 million people in attendance at its shows each year. Feld Entertainment’s productions have appeared in more than 70 countries on six continents and include Ringling Bros. and Barnum & Bailey®, Feld Motor Sports, Disney On Ice, Disney Live! and the upcoming Marvel Universe Live!

Feld Motor Sports, Inc. is the world leader in specialized arena and stadium-based motor sports entertainment. Feld Motor Sports productions include Advance Auto Parts Monster Jam®, Monster Energy Supercross, AMSOIL Arenacross and Nuclear Cowboyz®. Feld Motor Sports is a division of Feld Entertainment, the world's largest producer of live family entertainment. For more information on Feld Entertainment, visit www.feldentertainment.com

.NET & Application Developer

The .NET and Application Developer’s role is to actively participate in designing, implementing, and supporting custom corporate systems software. This position may be assigned to complete projects as a member of a small team or the position may work on projects independently. Project work may include new applications, new modules for existing applications, or revisions to existing systems. The developer will also cultivate strong working relationships with the user communities supported by the development team.

- Develop in-house applications. Development includes (but is not limited to): coding, testing, debugging and deployment of applications, using the appropriate tools and editors.
- Learn the necessary applications used and supported by the organization from the perspectives of a user and a developer.
- Document all technical specifications and data flow for each application developed.
- Work closely with database administrator and senior developers to design, develop, and update databases used by the applications.
- Collaborate with senior developers and department director to set project schedules and complete the projects according to the schedules and deadlines.
- Work both independently and in a team environment.
- Perform tier 3 support tasks for select applications. Test any fixes and perform post-resolution follow-ups to ensure problems have been adequately resolved. Document status and resolutions in corporate issue-tracking system.
**REQUIREMENTS:**

- College diploma or university degree in the field of computer science and/or 4 - 6 years equivalent work experience.

- Minimum 4 – 5 years experience with Visual C# .NET, ASP.NET Web Forms and/or MVC, Visual Basic .NET, ADO.NET, HTML, CSS, LINQ, and JavaScript.

- Experience writing database procedures, functions, and triggers, preferably with MS SQL Server or Sybase Adaptive Server.

- Proven analytical and problem-solving abilities.

- Experience working in a team-oriented, collaborative environment.

- Excellent written, oral, interpersonal, and presentational skills.

- Ability to absorb new ideas and concepts quickly.

- Ability to effectively prioritize and execute tasks.

- Experience with SharePoint Designer is a plus.

- Experience programming in a PowerBuilder client/server environment, PowerBuilder PFC, or Windows Forms is a plus.

*To apply, please send resume to [HRJobs@feldinc.com](mailto:HRJobs@feldinc.com) with “.NET & Application Developer” in the subject field*
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<thead>
<tr>
<th>Employer Organization Name</th>
<th>Job Title</th>
<th>Job ID</th>
<th>Job Description</th>
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<tr>
<td>Tech Valley, Inc.</td>
<td>Chief Engineer</td>
<td>46651</td>
<td>Imaging Co-Op student will assist Chief Planning Engineer with construction and development activities.</td>
<td>Civil and Environmental Engineering</td>
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<td>Veritas Wireless</td>
<td>Wireless Engineering Intern</td>
<td>46446</td>
<td>Responsibilities include the following:</td>
<td>Computer Engineering, Electrical Engineering, Computer Information Systems, Computer Science, Engineering Science</td>
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<td>Vertex Associates</td>
<td>QuickBase by Engineer Co-op</td>
<td>46609</td>
<td>Design and develop new features for the QuickBase platform.</td>
<td>Computer Engineering, Electrical Engineering, Computer Information Systems, Computer Science, Engineering Science</td>
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<td>NextTel, Inc.</td>
<td>Software Developer Co-op</td>
<td>46492</td>
<td>This position provides an opportunity to work on a variety of tasks:</td>
<td>Computer Engineering, Electrical Engineering, Computer Information Systems, Computer Science, Engineering Science</td>
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<td>Lightly Guided Systems</td>
<td>PHP Web Developer Co-op</td>
<td>43727</td>
<td>The chosen applicant will be expected to contribute to the design and development of a new product.</td>
<td>Computer Engineering, Electrical Engineering, Computer Information Systems, Computer Science, Engineering Science</td>
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<td>LCC</td>
<td>Electrical Engineering Co-op</td>
<td>43740</td>
<td>Responsibilities include:</td>
<td>Computer Engineering, Electrical Engineering, Computer Information Systems, Computer Science, Engineering Science</td>
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<td>VOALTE, Inc</td>
<td>Python or Ruby Developer</td>
<td>43702</td>
<td>We are looking for a developer with Full-time, Degreed, Full-time Computer Science, Information Systems, Information Technology</td>
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<tr>
<td>AliveTek, Inc</td>
<td>Web Developer</td>
<td>43703</td>
<td>We are a small learning company that creates custom Web control, Full-time, Degreed, Full-time Information Studies, Computer Science, Instructional Technology, Information Systems</td>
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<td>Lighthouse Guidance Systems</td>
<td>PHP Developer</td>
<td>43718</td>
<td>Experience with major MVC or PHP framework (Symfony), Full-time, Degreed, Full-time College of Engineering</td>
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<td>N2 Services Inc</td>
<td>Entry/Level/Intermediate Software Program</td>
<td>44530</td>
<td>Entry-Level/Intermediate Software Program, N2 Services Inc, Full-time, Degreed, Part-time Computer Engineering, Electrical Engineering, Mechanical Engineering, Computer Science</td>
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<td>Portlight LLC</td>
<td>Work From Home Entry Level</td>
<td>43718</td>
<td>Company Overview: Portlight's founding, the systems are with Full-time, Non-degreed, Into College of Engineering</td>
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