Dear CSE Students:

Welcome to the fifth and final newsletter of the fall 2013 semester.

**News from the Undergraduate Program:** Good Luck on your final exams! Congratulations to all Fall 2013 graduates!

**News from the Graduate Program:** Congratulations and good luck to all who are graduating this semester! To those who aren't, please be sure to check the Graduate Calendar on a regular basis for important deadlines and events. Have a great and safe winter break!

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

- Soft Materials Robotics Fellowship at Tufts University
- Grad and undergraduate programs funded by NSF and NASA – internships, fellowships, and scholarships
- Summer Undergraduate Engineering Internships at National Center for Atmospheric Research (NCAR)
- Part-time on-campus ASP.NET developer position
- Moffitt Cancer Center - LINUX CLUSTER ADMINISTRATOR
- Database Applications Team Leader
- Mobile Web App Development Positions
- Statistics Solutions part-time job
- GFI Software internship
- Flipsetter internship
- Technical Developer Positions at Tribridge
- Entry Level Developer Position at QTR Systems

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.csee.usf.edu/newsletter
As a recipient of the National Science Foundation’s prestigious IGERT (Integrative Graduate Education and Research Traineeship) award, Tufts University has accepted the challenge of establishing new models for graduate education and training. Our goal is to create a collaborative environment in which our research transcends traditional disciplinary boundaries, with a focus on soft material robotics.

We invite seniors who plan to pursue graduate education in Biology, Chemistry, Mathematics, Computer Science, or any of the Engineering disciplines to explore our [Soft Material Robotics – IGERT website](mailto:Julia.Poirier@tufts.edu). Information on how to apply for a Soft Material Robotics – IGERT Fellowship is available on the website.

*Julia Poirier*
Program Coordinator
Soft Material Robotics / IGERT
Tufts University
617.627.8739
SEARCH for a program... find your future!

www.pathwaystoscience.org

Education and career training opportunities in Science, Technology, Engineering & Mathematics (STEM)

Searchable by discipline, keyword, institution or geographic area:

- 650+ Paid summer research experiences for undergraduates
- 300+ Graduate fellowships, mentoring and prof. development opportunities
- 250+ Post-doctoral opportunities
- Sign-up to receive notifications about programs and opportunities!

GRAD and UNDERGRAD Programs Funded by NSF and NASA

a variety of internships, fellowships, and scholarships nationwide in a wide range of STEM and related disciplines

Check out NASA OSSI!
A one-stop-shop for students applying for NASA opportunities
http://intern.nasa.gov/
The Earth Observing Laboratory (EOL) of the National Center for Atmospheric Research (NCAR) hires undergraduate engineering interns with an interest in the atmospheric sciences during the summer months for the Summer Undergraduate Program in Engineering Research (SUPER).

SUPER interns work hands-on with NCAR/EOL engineers on atmospheric observing systems and developments, including radar, lidar, and sounding systems and associated software developments. Interns may spend part of the summer participating in a field deployment, operating and supporting one or more EOL observing systems.

EOL provides an hourly wage, travel support to and from Boulder, housing support if needed, and expenses in the field.

Learn more about SUPER: [www.eol.ucar.edu/super](http://www.eol.ucar.edu/super)
Part-time on-campus ASP.NET developer position

Seeking a Computer Science and Engineering undergraduate or graduate student for a part-time on-campus ASP.NET developer position starting in January 2014. The student will be part of the development team for the My Reviewers application:

http://myreviewers.com/about/

My Reviewers is an e-learning environment that helps reviewers provide more useful, explicit feedback on student writing, revolutionizes peer review, and transforms mentoring and assessment, thereby improving students’ writing & critical thinking. All development for My Reviewers is done on Windows Server 2008R2 with IIS 7.

Technical skills:
- SQL database queries, especially SQL Server 2008 R2 & S.S. Management Console
- VB.Net, ASP.Net (especially 2.0 and above)

Personal skills:
- Work well with a team, but also work independently when needed
- Develop code with minimal documentation and frequent changes

Hours and salary:
- Hours are flexible with an expectation of 20 hours per week. The salary is $25 per hour. Tuition waiver may be possible for graduate students.

Contact:

Joe Moxley
moxley@usf.edu
(813) 974-9469
The Linux Cluster Administrator ("LCA") applies technical expertise and background to work within a team of systems administrators, genomics scientists and software engineers to consult for and support scientific researchers who use multi-computing services at the Moffitt Cancer Center. Primary responsibilities include system administration, software maintenance, system monitoring and troubleshooting for advanced systems and related infrastructure.

The LCA engages with principal investigators and their labs, core facilities, and individual researchers. This position creates and optimizes computational solutions to the specific scientific computing needs of each constituency; ensuring that the appropriate technology resources are identified and utilized optimally. This position consults on applicable software packages and algorithms, and assists in optimizing them for salability and (massive) parallelization as needed.

**Required Education:** Bachelor's Degree  
**Preferred Education:** Master's Degree  
**Preferred Field of Study:** Computer Science, Information Technology, Management Information Systems or related field.  
**Preferred Certification:** RHCE

**Required Qualifications:**
Minimum three (3) years of progressively responsible experience in Linux systems administration. Facility with scripting languages including at least one of the following: Bash, Ruby, PERL, Python. Facility with the GNU compiler toolchain, especially the GNU Build System tools, gdb or ddd, and strace. Familiarity with one or more of the following HPC cluster scheduling software: Altair PBS Works, OpenPBS, or Moab suites. Working knowledge of at least one object-oriented programming language; such as C++ or Java. Working knowledge of computer hardware, networking concepts and tools, and protocols; such as SSH, DNS, DHCP, and LDAP.

**Preferred Qualifications:**
Experience with the Rocks Avalanche Installer for distributing OS images to cluster compute nodes is preferred, as is experience with cluster file systems and enterprise storage systems (e.g., Isilon). - Experience working in a scientific computing environment, particularly in an academic setting. - Ability to use logical, principled approach in troubleshooting software and/or hardware problems and ventures repairs as needed. - Ability to navigate a heterogeneous computing environment including UNIX/Linux, Mac OS and Windows.

**Link to the position:**
Database Applications Team Leader

The Database Applications Team Lead will be responsible for the configuration, administration, monitoring, maintenance, and loading of data for all databases within the Florida Center, working as part of a team. A Bachelor’s degree in information technology or a related field, with two years of experience in related positions is required, or a Master’s degree in directly related fields. This is a full-time staff position.

For a complete description of the position, including duties, required and preferred qualifications, and to apply, visit this link.

For information about this position contact Florida Center director Shawn Landry.

CONTACT

Shawn Landry, Director, Florida Center for Community Design & Research
landry@usf.edu

Thank you,
Shawn

Shawn Landry, Ph.D.
Program Director and Research Associate Professor
landry@usf.edu 813.974.4590 or 813.434.0162 (Google Voice)
Florida Center for Community Design + Research
School of Architecture and Community Design, University of South Florida
4202 E Fowler Ave HMS 301, Tampa, FL 33620 (Physical Address: HMS 113)

http://fccdr.usf.edu/news/58/staff-position-announcement-database-applications-team-leader
Mobile Web App Development Positions

Developer Positions available with a mobile web application company in the Tampa Bay area!

Back-end:
We are looking for a person who is proficient in OO programming using C# including MVC methodologies and SQL/LINQ. In addition it would be helpful to have experience in data transformation concepts such as XML, JSON or SQL => C# models. JQuery and a desire to do advanced JS development is a plus but not required.

Front-end:
We are looking for a person who is very proficient in jQuery and Javascript programming and has familiarity with JS libraries or frameworks that utilize object oriented techniques and client side MVC methodologies. Experience with JS libraries such as Backbone, Knockout, Angular, as well as a working knowledge of HTML5, CSS3.

Sara Wielinski
RECRUITER
TAMPA, FL
813.983.7300 - Direct
813.579.1220 - Main
www.skybridgeresources.com
November 12th, 2013

Statistics Solutions consists of a team of professional statisticians specializing in dissertation and research statistics. Our statistical consulting services expedite both the dissertation proposal approval and results chapter.

We are looking for a student to work part-time to research and gather information on a variety of things.

The right candidate will be motivated, familiar with searching the internet, and work well on their own with minimal supervision. This is a temporary job, but for the right candidate, it could become permanent. We offer flexible hours for students.

Kerri Shaver
kerri@statisticssolutions.com
727-442-4290
Looking to gain valuable experience?

**GFI Software** has an outstanding internship opportunity for (Masters, or Senior-level) students to work with a recognized leader in the field of wireless protection technologies.

We are a dynamic technology company that develops on premise, cloud-based, easy-to-use & affordable hybrid solutions for small to mid-sized businesses, as well as managed service providers (MSPs). We cure the common IT pain points of our customers so they can focus on their top priorities: maximizing time, minimizing costs and growing their business.

**Description**

- Support research and development in the **GFI Wireless Department**. The best qualified applicants must possess a good skill set in computer programming (specifically development for mobile devices, *preferred Android*), networks, and security in general and wireless networks in particular.
- Selected intern will complete a set of defined tasks in a professional and productive environment, including (but not limited to) quality assurance, researching wireless protocols, wireless signals, and field testing in addition to developing proof of concept code.
- Internship length may range from 3-6 months, with flexible scheduling available.
- This is a paid internship, based on level of experience and knowledge.

Interested in coming on board with us?

Contact [nathan.young@gfi.com](mailto:nathan.young@gfi.com) for more details!
FlipSetter is a job search engine, social media collaborator and business developer that let people create job profiles, set up a business or a club page with no costs! FlipSetter is a startup, and our team has received a lot of support from smaller business, universities and other people.

There are a lot of job search engines available online, but FlipSetter’s goal is to be the top search engine with the easiest and most entertaining features when you apply for setup something. Here are our highlights-

**PHP & Javascript Applications**

FlipSetter, LLC is becoming a leader in new opportunities and new ideas. Our tools invite student clubs, organizations, small businesses and large businesses of any kind.

Highlights-

- Virtual portfolio
- Videos
- Job posts
- Photos
- Club page
- Messaging
- Business page
- Networking
- Officer positions
- More to come....

Requirements- PHP and Javascript coding level

- Work and collaborate with staff coders
- Communicate via Internet Room Chat (IRC) your questions and concerns
- Follow your 2 month schedule on a timely basis and report your code to our Senior Officers
- Work both independently and in a team environment

Benefits-

- Potential undergraduate research credit
- 2 month stipend (details will be in assignments)
- Very flexible schedule, work at your own pace
- Teamwork and team collaboration on IRC and Google Hangouts for help and support

**For more information, please contact by phone or email from the information on the top left**
Technical Developer Positions at Tribridge

I wanted to inform you that Tribridge is still looking for qualified candidates for an ERP technical developer position. We have two positions available in our Dynamics AX ERP practice. This is an excellent entry level opportunity for students who desire to start their career as a pure developer. The most exciting part is that the development encompasses modifying Dynamics AX, an enterprise class ERP system, which supports the full supply chain of manufacturing and distribution companies. Tribridge offers full training and development through our Academy as well as Microsoft developer training. (Note: Unfortunately, we are not looking for international students at this time.)

Tribridge has a comprehensive screening process and is looking for students that have the desire to be a developer as well as demonstrate strong character traits including:

- Professional
- Team player
- Good listener
- Ability and willingness to learn
- Good communication skills both verbally and written
- Demonstrates Tribridge values
- Creative thinker
- Ability to handle fast changing environment
- Self starter, motivator, and self-teacher
- High energy
- Demonstrate confidence, especially the ability to be confident in front of clients
- Outgoing and comfortable in sometimes uncomfortable situations
- Inquisitive

The position description is located on Career Connections under Tribridge as the ERP Technical Consultant. Can you please forward this to your students and instruct them to send their resume to Adrienne.wells@tribridge.com. Thanks in advance,

Doug

Doug Blitzer
Director, Talent Strategy and Development

Office: 813.287.8887 x1820
Mobile: 954.205.0773
Fax: 813.287.8688
Email: Doug.Blitzer@tribridge.com

Tribridge
Entry Level Developer Position

QTR Systems is looking for an entry level software developer to participate in a wide variety of client software projects. The perfect applicant will possess the following skills:

- Understanding of database design
- Knowledge of object oriented programming principles
- Exposure to developing web applications
- Exposure to the C# language and the .NET framework
- Experience with electronics and the Arduino platform is a plus
- **The desire to learn and grow as a software engineer!**

QTR Systems is a dynamic rapidly growing company headquartered in the Tampa Bay area. Our team of experienced and skilled software engineers will provided a fantastic environment to quickly gain experience in the field of software engineering.

Please send a resume to jobs@qtrsystems.net and include salary requirements.