Dear CSE Students:

Welcome to the sixth (and last) newsletter of the fall 2014 semester.

**Undergraduate Program (CS and CpE):** Please contact Dr. Christensen (christen@csee.usf.edu) for any undergraduate advising questions you have during the break between the fall 2014 and spring 2015 semesters. Good Luck on final exams and have a great holiday!

**Undergraduate Program (IT):** Nothing for this issue.

**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):

- CSE Outreach Roadshow Seeking Volunteers
- Department of Homeland Security Secretary’s Honors Program Cyber Student Volunteer Initiative
- Santa Fe Institute 2015 Research Experience for Undergrads
- NCAR/UCAR Summer Undergraduate Program for Engineering Research
- Volunteer Job Title: Robotics / S.T.E.M. Instructor
- iDTech Best Summer Job Ever
- Multiple Platform Mobile App Developer (OPS) at USF

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
CSE Outreach Roadshow Seeking Volunteers

The CSE Outreach Roadshow takes a team of USF CSE students to middle school and high school classrooms in the Tampa area to educate students about computer science, and encourage them to consider a Computer Science or Computer Engineering education and career. The team gives an interactive presentation about Computer Science and its applications, challenge the students with fun activities related to CSE (brain teasers, encryption, and sorting algorithms) to give students a feel of what CSE is in a language that they can understand.

The event is hosted by USF student organization WICSE (Women in Computer Science and Engineering). It is sponsored by Bright House, Ericsson, and the CSE department.

CSE Outreach Roadshow visited Ben Hill Middle School, Williams Magnet Middle School, and Buchanan Middle School in November 2014.

Benefits for YOU

Volunteer experiences to put on your resume; improve your presentation, communication, and leadership skills for job hunting and interview; be a role model that influences youth in positive ways and makes an impact in the community. Independent study credit (1-3 hours) is possible.

Flexible Time Commitment and Schedule

The roadshow presentation is one hour per school. Each team is composed of one presenter and one coordinator. You could contribute by visiting one or more schools. You could choose to be a presenter or a coordinator. Schedule for school visits are flexible. WICSE will provide presentation materials and training for presenters.

Application

Please email Dr. Jing Wang (jingwang@cse.usf.edu) or WICSE president Meryem Berrada (mberrada@mail.usf.edu) if interested.
Department of Homeland Security
Secretary’s Honors Program
Cyber Student Volunteer Initiative

Overview
The Secretary’s Honors Program Cyber Student Volunteer Initiative provides students pursuing cybersecurity-related degrees with an opportunity to work with top Department of Homeland Security (DHS) cybersecurity professionals, while learning about the unique cybersecurity missions of the department. By offering temporary, hands-on experience to current students, DHS hopes to make a meaningful impact on the education of the Nation’s next generation of cybersecurity talent.

Why Become a Student Volunteer?
As a Cyber Student Volunteer, you will be able to:
- Explore exciting cybersecurity career opportunities, including those available in public service
- Apply concepts, protocols, and tools acquired through coursework by assisting cyber experts in the real world
- Build technical experience in key areas such as digital forensics, network diagnostics and incident response
- Network with cybersecurity professionals through mentoring and professional development events from cyber threats

2015 Student Volunteer Assignments
- Available in over 50 office locations across the Nation
- 12 - 16 week assignments (May - September 2015) with a possibility of extension
- Flexible start dates and schedules
- Possibility to receive course credit from your institution

Participating DHS Components
- Immigration and Customs Enforcement
- Office of Intelligence and Analysis
- Office of the Chief Information Officer
- National Protection and Programs Directorate
- Transportation Security Administration
- U.S. Coast Guard
- U.S. Customs and Border Protection
- U.S. Secret Service

Examples of Student Volunteer Activities
- Assisting with hardware and software updates to forensic systems
- Assisting with network monitoring and incident response
- Conducting vulnerability scans
- Observing computer forensics analyses and their use in investigations
- Performing evidence intake, processing and analysis
- Produce unclassified documents describing and analyzing cyber threats
- Researching cybersecurity tools and techniques
- Researching the impacts of cyber incidents on critical infrastructure

Eligibility Requirements
- U.S. citizenship
- Seeking an undergraduate degree in 1) science, technology, engineering, or mathematics (STEM); 2) cybersecurity-related studies; or 3) an alternative field but possess an interest in possible future work in cybersecurity
- Projected graduation date of September 2015 or later
- Grade Point Average 3.0 on a 4.0-point scale
- Ability to successfully complete a background investigation

How to Apply
- Applications will be accepted starting November 24, 2014 via USAJOBS
- The announcement can be found at https://www.usajobs.gov/GetJob/ViewDetails/386746100
Santa Fe Institute
2015 Research Experience for Undergrads

This program is of special interest to you if you’re from computer science, pure and applied mathematics, and physics. If you are looking for a chance to do independent research at SFI, we encourage you to apply — especially if you are a highly talented student who attends an institution with limited research opportunities.


Who is Eligible: Undergraduates currently enrolled in a degree program leading to a bachelor's degree. NSF funds are limited to supporting U.S. citizens and permanent residents. Women and minority students are encouraged to apply.

Date of Program: June 7 – August 15, 2015 (10 weeks)

www.santafe.edu or education@santafe.edu
Summer Undergraduate Program for Engineering Research

The Earth Observing Laboratory (EOL) is committed to building a professional STEM workforce for future generations, and offers a unique experience with foundations in observational science and engineering to undergraduate students. EOL hires undergraduate engineering students who would like to gain skills and knowledge in the atmospheric sciences during the summer months for the Summer Undergraduate Program in Engineering Research (SUPER). SUPER interns work hand-in-hand with NCAR/EOL engineers and technicians 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.
Gaining Practical Experience

While working at EOL, interns help develop new instrumentation and improve our existing suite of NSF/NCAR Lower Atmospheric Observing Facilities. Some internships offer the opportunity to gain practical field experience by operating and maintaining equipment during an NSF-funded research project.

Interns are encouraged to develop their own engineering solutions as they work with and are mentored by professional, experienced engineers and technicians. During the internship, interns have access to a large number of resources such as sophisticated testing and calibration instruments, technical documentation, and state-of-the-art fabrication capabilities.

How Do I Apply?

SUPER is open to undergraduate engineering students enrolled in an accredited U.S. university or college. The application can be found through the UCAR Career Opportunities website: https://ucarcareers.silkroad.com/

Who Should Apply?

EOL's mission primarily requires electrical, mechanical, optical, and computer engineering skills but we encourage all engineering students to apply. Undergraduate students enrolled at accredited U.S. colleges and universities are eligible to apply for SUPER internships. However, note that some projects may require that the intern be (a) a U.S. citizen; (b) lawfully admitted for permanent residence in the United States; or (c) a protected individual as defined by 8 USC1324b(a)(3).

EOL provides an hourly wage as well as travel support and housing while in Boulder and expenses in the field.

I really enjoyed the actual writing of code and creating of applications that will really have scientific use. It’s a good feeling to have created something useful from your own efforts.
- Stephanie Fawaz, 2012

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Interested in Teaching Youth About Robotics & S.T.E.M.?

**Volunteer Job Title:** Robotics /S.T.E.M. Instructor

**Description:** Instruct youth in basic robotic programming, lego building/design, and assist in research.

**Organization:** Embracing Legacy, Inc.

**Schedule:** Saturday Morning

**Location:**
Revealing Truth Ministries
5201 N. Armenia Ave.,
Tampa, FL 33603

**Contact:**
Yarra Mathis
(813) 444-7729
jsal@embracinglegacy.org

**Basic Qualifications:**

- Programming Skills (training available)
- Familiarity with Lego building
- Experience in instructing/guiding children
- Writing / Researching knowledge
- Background Screening
BEST SUMMER JOB EVER!

We are looking for...

- Proven Leaders & On-Site Managers
- Unity Mobile Developers
- Android SDK & Java Developers
- Swift & XCode Mobile Developers
- Robotics & Arduino Engineers
- Minecraft Modders & Designers
- Maya Artists & UDK Designers
- Java & C++ Programmers

What We Offer...

- Networking Opportunities
- Internship Credits
- Fun & Creative Team Environment
- Competitive Pay
- Impressive Resume Building Experience
- Room & Board on a College Campus

Over 100 locations across 29 states
**Position:** Multiple Platform Mobile App Developer (OPS)

**Department:** Alliance for Integrated Spatial Technologies (AIST, USF, Geo Sciences)

**Description:** Alliance for Integrated Spatial Technologies (AIST) at USF in the Geo Sciences department is looking for a mobile app developer (OPS) who can develop apps on all the available platforms (IOS, Android and Windows). This is a position to develop a specific Map based app for the department. A potential candidate for this position needs to be an experienced app developer (on multiple platforms and is not for candidates looking to learn app development) and has to complete app development within 2 months (Starting in January of 2015). This app can also be used as part of their coursework projects, if it is required.

Interested Candidates can contact rkrishn2@mail.usf.edu (Ravi Krishnan).

**Potential Start Date:** January, 2015 (2 months)