Dear CSE Students:

Welcome to the seventh newsletter of the Fall 2015 semester. This will be the last newsletter of 2015.

**Message from the CS and CpE UG Advisor:** For students with a PERMIT for Ethical Issues, please register. There are a couple of seats still available for fall potential graduates to take Ethics in spring. Yvette Blanchard and Ed Kellner will be leaving the Department this semester, so if you'd like to give them your farewells, this week would be the time to do so. At this point, all of you should have a complete schedule for the Spring semester. If not, please come see me in ENB 343F ASAP (also, see first attachment). Best of luck to everyone in preparing for your final exams—-you’re almost there! Graduating students: On December 11th the College of Engineering will hold the “Induction to the Profession” ceremony. You need to register with the Dean's Office to be included and recognized at the ceremony. This is a great opportunity for you and for your family to celebrate with you the accomplishment you have made. Be a part of this celebration.

**Message from the IT UG Advisor:** I have received a few questions on COP 4930, IT Seminar and how to participate. By default, when you qualify for the IT program, you will get added to the “IT Colloquia-Seminar Tracker”. If you are not participating in this course and are an IT student, contact me and I’ll add you. Once added, you will attend face-to-face industry presentations (at least 3 are required) and online Senior Project Reviews. Each time you attend a session you will upload a snapshot/screenshot of your participation to the Session Tracker. Once you have a majority (at least 4 or 5), you will then register for COP 4930 and complete the remaining sessions the semester of registration to get credit for the course.

**Message from the Grad Program Assistant:** Hello Graduates! Please remember to turn in all of your documents for candidacy, contact me if you have any questions or concerns. For those who plan on taking the Qualifiers in Spring 2016, please talk to your professors and get those forms filled out. Those that are still interested in classes that are already filled - please be sure to send me an email with all of your information and the course(s) information so that I can add you to the wait list. Finally, please enjoy the holiday break! See you all next month. 😊

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

- Email from Dr. Hendrix on “Do you have a full schedule for Spring?”
- JPMorgan Chase Technology for Social Good
- National Academies fellowships
- STEM funding and research opportunities on PathwaysToScience.org
- Computer Mentors internship description
- Web Application Developer Position
- Associate Software Developer at ThreatTrack
- FRONT-END or BACK-END (mobile application) DEVELOPER SKILLED IN UI/UX DESIGN
- Software Engineer – Entry Level at SunView Software, Inc.
- Yuma Solutions
- Multiple positions with Pasco County Sheriff’s Office

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.usf.edu/engineering/cse/undergraduate/student-newsletter.aspx
Hi all,

If you do not have a full schedule for Spring semester, we still have seats available in several electives (Parallel & Distributed Processing, Intro to AI, Intro to Hadoop & Big Data, Networks II, and Computing and Network Security). In addition, you can also take approved courses from our partner universities, which you can read about at the link below:
http://www.csit-team.org/offered-courses-spring-2016/

If you are still not able to sign up for a full course load, please get touch with me. You can find me in my office (ENB 343F) on Mondays, 12-5pm; Wednesdays, 11-5pm; and Fridays, 2-6pm, or you can contact me via email (whendrix@usf.edu).

Cheers,
William

Undergrad mailing list
I am reaching out to you today from JPMorgan Chase about an opportunity we’re inviting your students to be a part of. The JPMorgan Chase Technology for Social Good team runs several hackathons around the world that pair up students from great schools like University of South Florida with nonprofits in need of innovative technology solutions. We call these events Code for Good and we have two coming up in early 2016 in Tampa, FL (Feb 5-6) and Houston, TX (Feb 19-20).

Over the course of 24 hours, the Code for Good challenge allows students to test their creativity, problem solving, and technical skills to help a good cause. The students will work in teams and have an opportunity to interact and network with new people. JPMorgan Chase technologists will be at the event, mentoring and advising the students along the way. Our nonprofit representatives will also be present to answer questions about the challenge they’re facing.

This program not only offers students prizes, but also offers the opportunity to get on track for a summer internship or a full-time position in our Technology Analyst Development Program.

Your students can be a part of our tech revolution. If you feel this message would be appropriate for them, we ask that you encourage them to apply forwarding this email with the application link and the attached digital invitation. We would be delighted to have some students participate from University of South Florida.

The deadline to apply is Friday, January 15. Given the timing of our events and the application deadline, it would be great if you could pass this message along before the holiday break.

Thanks in advance for any support you can provide.

Regards,

Julia Backon

Code for Good Team
JPMorgan Chase & Co.
code.for.good@jpmorgan.com
THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine

Dear Department Head:

We are asking your assistance in forwarding this message to inform students and faculty in your department of these outstanding fellowship opportunities. More detailed information and an online application can be found at www.nationalacademies.org/rap.

The National Academies of Sciences, Engineering, and Medicine sponsors a number of awards for postdoctoral, senior and graduate researchers at participating federal laboratories and affiliated institutions. These awards include generous stipends ranging from $45,000 - $80,000 per year for recent Ph.D. recipients, and higher for additional experience. Graduate entry level stipends begin at $30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.

Detailed program information, including online applications, instructions on how to apply, and a list of participating laboratories, are available on the NRC Research Associateship Programs website (see link above).

Questions should be directed to the NRC Research Associateship Programs at 202-334-2760 (phone) or rap@nas.edu.

There are four annual review cycles.

Review Cycle: February; Opens December 1; Closes February 1
Review Cycle: May; Opens March 1; Closes May 1
Review Cycle: August; Opens June 1; Closes August 1
Review Cycle: November; Opens September 1; Closes November 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.

Thank you for your assistance.

Sincerely yours,
H. Ray Gamble
Director of the Fellowship Programs
National Academies of Sciences, Engineering, and Medicine
500 Fifth Street NW
Washington, DC 20001

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If you would prefer not to receive further messages from this sender, please Click Here and confirm your request.
Liv Detrick <l DETrick@ibparticipation.org>  
To: Kenneth <christen@cse.usf.edu>  
Fri, Nov 20, 2015 at 10:14 AM

Dear Kenneth,

Once again, we are enlisting your help in connecting students with STEM funding and opportunities -- such as paid summer research, graduate fellowships, and graduate programs.

Please announce these opportunities in any classes or at presentations you may be making, and forward or post the links below in this email -- as you deem appropriate.

**Paid Summer 2016 Undergraduate Research Placements:**  
Over 800 programs -- NSF REU, NASA and other paid summer research opportunities for undergrads  

**For Financial Support in Graduate School:**  
Fellowships and graduate programs in a wide variety of STEM disciplines:  

**For tips on applying and associated resources:**  

**For opportunities specifically in the Ocean Sciences:**  

**For opportunities specifically in Engineering:**  

Thanks and best wishes for a Happy Thanksgiving,

Liv Detrick  
Institute for Broadening Participation

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Follow us on Facebook!  
[https://www.facebook.com/pages/Pathways-to-Science/120825625433](https://www.facebook.com/pages/Pathways-to-Science/120825625433)

Follow us on YouTube!  
[https://www.youtube.com/user/IParticipationVideo](https://www.youtube.com/user/IParticipationVideo)

IBP’s mission is to increase diversity in the Science, Technology, Engineering and Mathematics (STEM) workforce. We design and implement strategies to increase access to STEM education, funding, and careers, with special emphasis on reaching underserved communities and diverse underrepresented groups.
www.PathwaysToScience.org makes it easy for faculty and administrators to access resources that can assist them in their efforts to reduce barriers to participation, create environments rich in the positive factors that support student success on the STEM pathway, and conduct outreach to underserved communities and underrepresented groups by implementing recruitment and retention strategies that broaden participation and increase diversity.
Position Title: CMG/Safe & Sound Hillsborough Internship

Program Description: Computer Mentors is a non-profit service organization comprised of technology professionals who dedicate their time and talent to encourage and guide young people toward a career in the computer industry. This position is within the STEM Corps High School Program which is a “Digital Divide” program that encourages high school students to seek Information Technology careers.

Role: This position will work as a liaison between Computer Mentors Group and Safe & Sound Hillsborough. The person in this position will lead a group of high school youth who will be responsible for creating and administering the Safe & Sound Hillsborough website and phone app.

Responsibilities & Duties:
- Learn web and phone app development in order to be able to assist high school students in the same process.
- Lead a team of high school students in creating and administering the Safe & Sound Hillsborough website.
- Lead a team of high school students in creating and administering the Safe & Sound Hillsborough phone application.
- Interphase with Safe & Sound Hillsborough staff to maintain a list of modifications to be made to Safe & Sound Hillsborough applications (web and phone apps).
- Keep up to date on the latest industry trends in the mobile technology
- Assist students in completing work required to learn foundations in database design
- Assist students in completing work required to learn foundations in programming and mobile app development.
- Earn a Microsoft Office Users certification in Microsoft Access

Qualifications:
- Willingness to learn new technologies
- Enthusiasm toward technology and training others
- Excellent communications in both written and verbal communications.
- Some knowledge in information architecture, human computer interaction and usability design principles
- Some knowledge of Android and iOS development.
- Graphic design talent a definite plus.
- Must LOVE to work with youth

Compensation & Hours
- Part-time 15 hours per week
- Up to $15 per hour - commensurate with experience
- Level II Background check required upon hire

How To Apply: Send resume and cover letter to Ralph Smith, Computer Mentors Executive Directors, via E-mail at RSmith@computermentors.org.

To learn more about our organization, please visit our website at http://computermentors.org.
Web Application Developer Position

Center for Research, Evaluation, Assessment, and Measurement (CREAM), College of Education, University of South Florida is seeking services of a Web Application Developer to be hired at a flexible hour basis- as needed.

Position Summary:

Web development tasks will include (coding) for database-driven web applications. Applications developed will include but are not limited to: basic to complex online web forms, online reporting of database contents (reporting writing). The candidate should be familiar with MS SQL server which would serve as the back-end database for applications developed. The position will occasionally provide customer support for web-based applications.

Responsibilities:

Systems Analysis and Development: analyze customer technical needs, produce technical specifications and programming task list to complete the project

Web-Based Application Programming/Development: Produce application code which meets customer functional requirements, assemble/compile code and debug as part of a formal QA process. Development will be completed using USF standard programming languages or a 3rd party development platform.

Database Analysis and Design: design, implement and maintain database structures which will support custom web applications developed by the department in response to customer needs. Troubleshoot database and data problems.

Preferred Qualifications:

Proficient in ASP.NET and ANSI standard SQL. Development experience in a formal Systems Development Life Cycle Setting. Experience in XML, HTML, CSS, JavaScript and PHP. Experience writing and utilizing stored procedures, web services and modular code in web application development.

Experience with development and administration of MS Sharepoint, MS Identity Lifecycle Management (ILM), MS Visual Studios and Windows Server Administration (including IIS).

Salary Rate:

$22.00 per hour

Contact person:

Charles Kyobe at 813-974-9887 or kyobe@mail.usf.edu. Or Rosa Rojas at 813-974-3784 or rerojas@usf.edu.
**Associate Software Developer**
Location: US – Clearwater, FL
Research & Development

**Job Summary:**

The ideal candidate is a highly motivated individual with good interpersonal skills and the ability to perform detail oriented tasks with the goal of producing high quality code. The candidate is expected to work well within a team that sets aggressive schedules and provides creative solutions to the needs of the business community. The candidate is expected to be proficient with .Net programming, Object-oriented design and web application development.

**Required Qualifications:**

- .Net skillset with tools needed for web app development, such as C#, ASP, HTML5.
- Cross-platform web app UI development experience.
- Strong debugging skills.
- Experience with SQL, especially query writing and database design
- Good written and verbal communication skills.
- The ability to work as a team member, supporting the full development/testing/release process.
- Demonstrated ability to think creatively, providing effective and efficient solutions which improve the customer experience.

**Additional Qualifications:**

- Experience with any of the following: DevExpress components, XML, LINQ, Sqlite, WCF, Web Services, C++.
- Experience with the Agile development process.

**Education / Experience**
- 4 year degree in Computer Science or related field

ThreatTrack Security provides an open environment, offering challenging project and supports professional development. If you are interested in marking your mark in computer and network security, consider a career with ThreatTrack!

**ThreatTrack Security is an AA/EOE/Vets/Disabled employer.**

If you are interested in learning more about ThreatTrack and our Associate Software Developer opportunity, please email our corporate recruiter at Jeanne.Coury@ThreatTrack.com.
LOOKING FOR A FRONT-END or BACK-END (mobile application) DEVELOPER SKILLED IN UI/UX DESIGN

This is an opportunity to be a part of a start up that is going to change an industry.

If interested please contact Francisco at (727)-539-9025 or thefranciscobonilla@gmail.com
Software Engineer – Entry Level

Company Name: SunView Software, Inc.

Experience: 0-1 Year

SunView Software, Inc. is a leading provider of IT Service Management software that enables companies to better track, manage and control their IT services and infrastructures. We are currently seeking a highly motivated, self-starting individual to join our development team as an entry-level Software Engineer. The ideal candidate will gain hands-on experience successfully working with our development team of a commercial software package and seeing it through multiple releases.

Responsibilities:

- Work with the development team and meet project delivery dates by developing, publishing, and monitoring project schedules and timelines
- Actively work with the architect and other developers to design and implement product features
- Take an active role in process improvements in such areas as code review and unit testing
- Help ensure that testable builds are delivered to the test team daily
- Assist in supervising maintenance activities and ensure escalated support issues are addressed

Skills Required:

- Experience applying aspects of the Agile software processes helpful
- Hands-on experience using Visual Studio.Net, C#, and ASP.Net, preferred (C++ or Java experience a plus)
- Demonstrated expertise in problem solving
- Ability to work with a sense of urgency in a fast-paced, multi-tasking environment
- Strong verbal and written communication skills
- Bachelor’s degree in computer science or a related field preferred

This position requires the candidate to work on-site in our Tampa office. Relocation assistance is not available.

We offer our employees a competitive compensation and benefits package within a dynamic and thriving culture that rewards individuals who are committed to professional success. If you meet the above requirements and are interested in the position, please submit your resume along with salary requirements for immediate consideration.

Email: recruiting@sunviewsoftware.com
Job Summary

We provide outsourced IT services to clients in many various fields; specializing in the legal and Republican political fields. We have offices in DC and in Florida but we support firms and committees in various states such as Arizona, Texas, Ohio New York, Florida, Virginia, Washington DC and points in between.

This position will operate under general direction from the Operations Manager of the company with a high level of autonomy using knowledge and skills obtained through applied experience and industry certifications. This position requires in-depth technical expertise in desktop technologies, networking architectures, security related technologies, and various platforms. This position will be responsible for technical support across a large spectrum of clients and issues ranging from simple desktop support to complex server and network infrastructure. The candidate hired for this position will be asked to evaluate company and client objectives and help develop solutions that meet the various project requirements.

The candidate hired for this position will have to provide an employment history with both professional and personal references. The salary offered will be in direct relationship to experience coupled with certifications.

Qualifications

- Bachelor’s Degree in Computer Science field with three years' related experience.
- Microsoft Certified Systems Engineer (MCSE) or equivalent certification is a plus.
- Must have knowledge of server technologies, Microsoft systems, and virtual systems.
- Experience with Windows, Microsoft Exchange, network operations and Cisco.
- Knowledgeable of firewalls, spam filter hardware/software, anti-virus software, IDS/IPS systems.
- Fluent in design, implementation and management of disaster recovery technologies a plus.
- Knowledge of email journaling, archiving and discovery is a plus.
- Knowledge of VOIP systems is a plus.

Expectations

- Serve as Lead for the troubleshooting and resolution of trouble calls/emails and other Help Desk issues.
- Assist in the design, implementation and maintenance of systems, programs, hardware and software.
- Evaluate, test, and implement new technology.
- Identify and recommend appropriate changes to server to improve performance, reliability, and availability.
- Act as Lead for inventory management of software licenses, software, hardware, and other IT supplies.
- Communicate with clients and manage their expectations effectively to identify needs and evaluate alternative business solutions with company project management.

Professional Qualities

- Proactively seeks opportunities to serve in leadership roles, suggesting areas for improvement in internal processes along with possible solutions.
- Generates enthusiasm among team members and facilitates effective team interaction.
- Seeks and participates in development opportunities above and beyond training required by the company.

Employment Specifics

- Salaried position with milestones at 90 days, 180 days, 1st/2nd/3rd year’s anniversaries.
- Benefits including health/dental/life insurance, retirement plan, PTO/holidays and industry specific tools.
- Certification programs in Microsoft, Dell, Cisco and ShoreTel
- Specified relocation reimbursements
Multiple Positions with Pasco Sheriff’s Office

http://pascosheriff.com/emp1001r-2/

Senior Software Developer

The Senior Software Developer will oversee maintenance of commercial off the shelf software (Public Admin, Public Safety and Jail Management System) and design and implement custom software tools and techniques for the agency. Programming languages currently used by the agency are C#, SQL, WordPress, and android. The intended platforms include Windows, Linux, Android, and Unix systems. Works with various individuals to execute IT software projects within budget and on time. This includes identifying, specifying, and analyzing requirements and processes, managing progress throughout the design, test, and implementation process. Projects are technically difficult, requiring innovative and creative solutions and frequently involve multiple platforms, software, hardware, technologies and tools. Diagnoses software issues and debugs customer problems using industry standard tools as well as custom toolsets. Responsible for end-to-end design, development and standard developer testing of custom software. Authors documentation pertinent to operating and supporting developed software. Maintains commercial software, develops custom software, debugs software, and utilizes diagnostic tools. Participates in IT meetings, leads other developers and performs code reviews and updates. Works closely with the IT Network Security Analyst and outside agencies to improve the overall security posture of PSO information systems. Assists with the development and implementation of IT standards, procedures, and policies. Must be available for software related issues 24/7 and participate in the IT on call rotation. Establishes, maintains, and increases client satisfaction through professional, courteous, and caring service.

Web Designer

This position performs specialized job duties which include performing complex graphics and web design tasks, the use of computer and web-based software, familiarity with the concepts and terminology of Information Technology, technical specifications, web publishing, content updates and graphics design. Measures performance of web sites and works with team members to properly tune systems to achieve the optimum level of performance. Leads teams in the planning, design, and analysis of web enhancements. Works closely with the IT Network Security Analyst and outside agencies to improve the overall security posture of PSO information systems. Assists with the development and implementation of IT standards, procedures, and policies.

Database Analyst

Installs, administers, and optimizes server databases and related components to achieve high performance of the various agency server databases and their applications. Provides daily monitoring, maintenance, tuning, and upgrading databases and their related infrastructure as necessary. Ensures the availability of client/server applications, configuring all implementations. Develops processes and procedures for management of the database environment. Works with development and users to deliver, maintain, and enhance database solutions and reporting.
functionality. Performs database administration activities and other server related tasks as appropriate for the function and performance of the databases. Measures performance of databases and works with team members to properly tune systems to achieve the optimum level of performance. Leads teams in the planning, design, and analysis of database enhancements. Works closely with the IT Network Security Analyst and outside agencies to improve the overall security posture of PSO information systems. Assists with the development and implementation of IT standards, procedures, and policies.

Service Desk Analyst (Entry Level Position)

Working under the supervision and direction of the IT Customer Support Manager, you will develop a full understanding and an ability to perform the key tasks and responsibilities of an IT Service Desk Analyst by:

- Working with others, develop skills to provide the customer interface to IT Services via counter service, telephone and electronic communications. Contribute to handling incidents, problem records, and service requests; proactively seeks resolutions for customers; deals with issues and complaints in a professional and calm manner.
- Learn how to provide first line technical on all IT related matters aiming at resolving a majority of incidents at first point of call using advanced diagnostic techniques, system administrator rights and remote control desktop.
- Develop an understanding of how to escalate incidents/service requests which cannot be resolved at first point of contact to the appropriate group, retaining ownership through resolution.
- Communicating with users – keeping them informed of incident progress, notifying them of impending changes or agreed outages.
- Endeavoring to pursue continuous service improvement culture, contribute to, maintain and update procedures.
- Maintaining accurate records and reporting information on the level of faults and requests by logging all relevant incidents/service request details and allocating categorization and prioritization codes.
- Understanding how and when to escalate to the appropriate group any incidents that require reporting for further escalation.
- Assisting others to provide support for connecting members’ personal computers to the agency quest network.
- Assisting others to provide cover and technical support in other areas of IT support as required.
- Assisting in the conducting of customer/user satisfaction call-backs/surveys as part of the closure process applied to IT Service Desk Calls.
- Maintain a personal development program as agreed with the IT Customer Support Manager.

William T. Henshilwood
Director of IT
Pasco Sheriff's Office
(813) 235-6074
whenshilwood@pascosheriff.org