Dear CSE Students:

Welcome to the third newsletter of the spring 2013 semester.

**News from the Undergraduate Program:** I hope your semester is going well and that you are looking forward to a helpful and informative meeting with your mentor during mentoring week, starting February 11. Take advantage of this opportunity to discuss your academic and career goals with your mentor.

**News from the Graduate Program:** For those of you planning to defend this semester, the deadlines are as follows: Thesis: February 22 for College Full Draft Format Review, March 22 for College FINAL Thesis – Catherine Burton, and March 29 for Graduate School Final Submission. Dissertation: March 8 for College Full Draft Format Review, April 5 for College FINAL Dissertation Manuscript Due – Catherine Burton, and April 12 for Graduate School Final Submission. Please check the CSE Calendar of Events on a regular basis for all deadlines and events.

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

- Great Minds in STEMP – HENAAC Scholars Program
- PAID SUMMER RESEARCH INTERNSHIPS
- GRAP Laboratory Summer REU at University of Pennsylvania
- Fintech Business Plan Contest
- NICERC Engineering Education Internship
- Microsoft App Lab event on campus (February 27th)
- Tutors Needed for Key CSE Courses
- Develop Real World Applications – On Campus Job
- Valpak internships

Regards,

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

The archive of old newsletters can be found at http://www.csee.usf.edu/newsletter
Great Minds in STEMP – HENAAC Scholars Program

At Great Minds in STEM, we believe that the key to cultivating tomorrows’ technology leaders is to recognize and support the leadership of today’s outstanding science, technology, engineering and math students. With that in mind, we are asking that you promote a great opportunity offered by Great Minds in STEM - the HENAAC Scholars Program.

Since our inception, the HENAAC Scholars Program has experienced tremendous growth awarding over $1.7 million dollars in educational grants to over 850 STEM students. These awards are made possible through the continued generous support of our outstanding scholarship partners including the Northrop Grumman Corporation, Lockheed Martin, NASA, Cummins, NAVSEA, SPAWAR, Verizon, Rockwell Collins, Oracle and Texas Instruments.

To qualify for a scholarship, applicants must be full time college STEM students (or high school seniors attending a college/university in the fall) active in the Hispanic community with an overall grade point average of at least a 3.0. This year’s scholarships will be presented at the 25th Anniversary HENAAC Conference during our Student Leadership Dinner. In addition to their scholarship, recipients will receive financial support to travel and attend the HENAAC Conference where they will meet their scholarship sponsor and be able to participate in a number of rewarding activities. This year’s Conference will take place on October 3-5 in New Orleans, Louisiana at the Hyatt Regency Hotel. HENAAC Scholarship Program information will be available on our website beginning on Friday, February 1st. The deadline to apply for the scholarship is April 30th.

Great Minds in STEM will be once again awarding travel grants to students to attend the 25th Anniversary Conference. We ask that you inform your STEM students about this opportunity to take advantage of all the wonderful networking opportunities such as the Career and Graduate School Fair. Student registration and travel grant information will be available on our website beginning on Tuesday, February 19th. The “early bird” student registration rate is $115. We also award monetary grants through the HENAAC College Bowl and our Technical Papers and Poster Competition. For additional information on how to participate in these programs, please ask your students to visit our website at: www.greatmindsinstem.org.

I would like to ask that you encourage any qualifying STEM students that you may know to take advantage of these outstanding opportunities. If additional information is needed on the HENAAC Conference or the HENAAC Scholars Program, I can be reached at (323) 262-0997, extension 300 or kbbarrera@greatmindsinstem.org. Thank you.

Sincerely,

Kathy Borunda Barrera
Manager, Recognition Programs
PAID SUMMER RESEARCH INTERNSHIPS
FOR UNDERREPRESENTED STUDENTS via CRA-W/CDC DREU (DREU was known as the DMP from 1994-2008)

Application Deadline February 15, 2013

The CRA-W/CDC Distributed Research Experiences for Undergraduates (DREU) Program matches promising undergraduates with a faculty mentor for a summer research experience at the faculty member's home institution. The objective of the DREU is to increase the number of women and students from underrepresented groups, including ethnic minorities and persons with disabilities, entering graduate studies in the fields of computer science and engineering. The DREU experience is invaluable for students who are considering graduate school, providing them with a close-up view of what graduate school is really like and also increasing their competitiveness as an applicant for graduate admissions and fellowships.

Funding for the student consists of $7000 for the summer (10 weeks), plus relocation travel assistance when appropriate. Additional funds may be available to support student conference travel, either during the summer or afterward, and for outreach activities promoting the DREU.

An on-line Application for students and faculty mentors, more information about DREU, and webpages authored by previous participants are available at:

http://parasol.tamu.edu/dreu/

Application Deadline: February 15, 2013
Awards Announced: mid-March 2013

Notes for faculty mentors regarding the DREU Program:

* Cost sharing by faculty mentors is encouraged. The number of students interested in the DREU program has increased substantially over the last several years. To enable more students to participate, faculty are now encouraged to provide funds to support (partially or fully) students; the DREU will provide travel support for all students.

* All interested faculty are eligible to be DREU mentors. All interested faculty are encouraged to apply as mentors. Nonetheless, based on the documented benefits of role models with similar gender or from similar demographic groups, it is anticipated that DREU funds will mostly be used to support students matched with mentors from groups underrepresented in computing. Hence, other mentors applying should attempt to provide full funding for their students' stipends (the program will provide travel support).

For more information about the DREU, consult the DREU webpages

http://parasol.tamu.edu/dreu/

or contact the DREU Co-Directors at dreu@cse.tamu.edu

Nancy Amato, Professor, Texas A&M University
Co-Director, Distributed Research Experiences for Undergraduates (CDC)

Maria Gini, Professor, University of Minnesota
Co-Director, Distributed Research Experiences for Undergraduates (CRA-W)

Julia Hirschberg, Professor, Columbia University
Co-Director, Distributed Research Experiences for Undergraduates (CRA-W)

Tiffani Williams, Associate Professor, Texas A&M University
Co-Director, Distributed Research Experiences for Undergraduates (CDC)

The Computing Research Association (CRA, http://cra.org) is an association of more than 180 North American academic departments of computer science and computer engineering; laboratories and centers in industry, government, and academia engaging in basic computing research; and affiliated professional societies. The Coalition to Diversity Computing (CDC, http://www.cdc-computing.org/) is a joint organization of the ACM, CRA, and IEEE-CS. DREU is supported by a grant from the National Science Foundation with additional support from AAAI, the Luce Foundation, and USENIX.
The GRASP Laboratory at the University of Pennsylvania is proud to be operating a Research Experience for Undergraduates (REU) Site entitled *Perception, Planning, Mobility, and Interaction for Next Generation Robotics*. This REU Site opened in 2012 and is funded by the National Science Foundation (NSF).

Our program will give ten motivated engineering and computer science students significant experience in cutting-edge robotics research. Each student will work with a GRASP faculty member and a post-doctoral or graduate student mentor on a current research project in robotics. Projects will span the range of topics being researched in the GRASP Lab and will be fine-tuned to match the interests and backgrounds of the selected students. Here is a representative list of research topics available in this REU Site:

- **Machine Perception**
- **Motion Planning**
- **Flying Robots**
- **Haptic Interfaces**
- **Dynamics and Control**
- **Humanoid Robots**
- **Robotic Surgery**
- **Robot Design**

**Program Specifics**

- **Stipend** Each student will be paid a stipend of $5,000 for the 10-week program.
- **Dates** The program will probably run from May 31 through August 11, 2013, (exact dates not yet set).
- **Travel** Each student will be able to request up to $750 in reimbursement for travel to and from Philadelphia for the program or to a conference to present their research.
- **Housing** Each student enrolled in the program will be housed free of charge on the campus of the University of Pennsylvania. The provided housing is within walking distance of the GRASP Lab.
- **Research Competition** A prize of $250 will be awarded to the best REU research presentation, judged by experts in a public research symposium.
- **Activities** The entire GRASP REU class will be supported by experienced Penn faculty and staff. The Site has a social program component, as well as planned visits to local robotics research facilities.

We welcome applications from US citizens and permanent residents. We are particularly interested in applicants from groups that are traditionally underrepresented in science, technology, engineering, and mathematics (low-income, ethnic and racial minorities, first generation college students, and women).

**Interested? Submit an application online!** The Penn GRASP REU Site application will be available at the following website by early February, 2013, and admissions will be done on a rolling basis.

[http://reu.grasp.upenn.edu](http://reu.grasp.upenn.edu)

**Questions?** Contact Professor Katherine Kuchenbecker at kuchenbe@seas.upenn.edu or Professor Max Mintz at mintz@cis.upenn.edu

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FINTECH BUSINESS PLAN COMPETITION

1ST PLACE: $15,000

COMPETITION OPEN TO
USF GRADUATE & UNDERGRADUATE
CURRENTLY ENROLLED STUDENT

Friday, April 5, 2013
8:00am - Noon
College of Business BSN115

Deadline for Submission:
Thursday, March 28, 2013 by 5:00 p.m.

SUBMISSION GUIDELINES

- Submit by March 28, 2013 the business plan (not to exceed 25 pages)
- Submit one bound copy to:
  Center for Entrepreneurship
  4202 E. Fowler Ave.BSN3334
  Tampa, FL 33620-5500

CONTEST REQUIREMENTS

- At least one person in the company’s ownership group must be a current USF student.
- The winning team must file to become a legal entity in the State of Florida before receiving the award.

Email one PDF copy to:
thompsonv@usf.edu

Early stage companies are welcome.

Hosted by the USF Center for Entrepreneurship in collaboration with the College of Business, Engineering, Medicine, and Patel School of Global Sustainability
NICERC ENGINEERING EDUCATION INTERNSHIP

The CYBER INNOVATION CENTER (CIC), a 501c3 not-for-profit corporation, is the anchor of a 3,000-acre National Cyber Research Park (NCRP) located in Bossier City, Louisiana. The mission of the CIC / NCRP is to create a knowledge-based workforce and diversify the region’s economic base by promoting research, education, and technological innovation while fostering collaborative and strategic alliances between governmental agencies, private industry, and academic institutions. To help advance STEM education, the CIC established the National Integrated Cyber Education Research Center (NICERC) to provide teachers with extensive professional development opportunities, hands-on curricular experiences, and mentoring from university faculty and national subject matter experts.

With the growth of NICERC’s educational initiatives, NICERC is proud to offer internship opportunities for both graduate and undergraduate engineering students this summer!

INTERNSHIP GENERAL INFORMATION
- Must be a US Citizen to apply
- Length of Internship - 10 weeks in Summer 2013
- $5000 for Undergraduate Students & $6000 for Graduate Students
- Partial meal allowance
- Paid On-Campus Housing (at Louisiana Tech University Apartments, Ruston, LA)
- Travel reimbursement to internship location and back home
- Expenses and travel to American Society for Engineering Education (ASEE) Conference in Atlanta, GA

TYPE OF PROJECTS (INCLUDES BUT NOT LIMITED TO):
- Work with National Subject Matter Experts on the National Cyber Discovery program
- Work with high school students in the National Cyber Discovery program
- Conduct K-12 teacher professional development workshops
- Participate in and work the Education Discovery Forum in Bossier City, LA
- Assist with curriculum development initiatives

APPLY ONLINE @ NICERC.org/EngrEdInternship

CONTACT
Krystal Corbett, PhD
Krystal.Corbett@CyberInnovationCenter.org

CHECK OUT NICERC’s STEM education programs @ www.NICERC.org.
University of S. Florida: Microsoft AppLab's Introduce Game Maker Dev Tools

Wednesday, February 27, 2013 from 5:30 PM to 9:30 PM (EST)
Tampa, FL

Microsoft appLab

Sign up with Facebook

or, sign up with email

Registration Ends: February 27, 2013 4:30 PM

Event Details

Embrace your inner nerd and build an App!

Join us for this special event to learn how to build 2D Games using Game Maker for Windows 8.

Game Maker is an exciting new application that helps you create game applications without coding experience.

It's cross platform but you MUST have Windows 8 and Visual Studio 2012 installed to build apps for Windows 8 and submit them to the Windows Store.

This Game Maker AppLab is a hand-on lab session. It is the perfect opportunity to get into app development. If you have been interested in building apps and looking for a way in, this is it.

Students will need to bring laptops

Required Hardware:

PC Laptop running Windows 8

Mac running Windows 8 (Bootcamp partition)

Event Organized by Microsoft Developer Network @ USF and USF Honors College

Presenter Joe Healy - Principal Technology Evangelist - Developer Microsoft Corporation

Student Organization Sponsor: "Microsoft Developer Network @ USF"

Department Sponsor: USF Honors College

Contact the event organizer
View other events by this organizer
Required Software:

Visual Studio 2012 available via USF Dream Spark

Microsoft Windows 8 available via USF Dream Spark

GameMaker 8.1 download available via
http://www.yoyogames.com/gamemaker/windows
Tutors Needed for Key CSE Courses

The Jenkins Scholars Program is looking for tutors for the spring, 2013, semester. These are paid tutoring positions. Applicants MUST have an overall 3.25 GPA, taken the respective course at USF, and received a grade of at least a “B” in the course.

Tutors Needed for: COP 4530 (Data Structures)
CDA 4203 (Computer System Design)

Contact Information: Katie Negron, Jenkins GA. email: negronc@honors.usf.edu
Develop Real World Applications – On Campus Job

Physical Plant Technical Services is looking for students interested in gaining experience developing real world applications.

Some programming experience, in any language, is required. You will join a team of Computer Science students to gain experience with the following technologies:

- Visual Basic.NET
- SQL
- ASP.NET

Background check and drug screening required. Up to 40 hours between 8:00 AM and 5:00 PM Monday through Friday. Hours are flexible and work around your class schedule.

Contact:

Hoang Nguyen
hnguyen@admin.usf.edu
Cox Target Media
Intern Job Description

Job Title: Business Intelligence Reporting Intern

Essential Duties and Responsibilities:
1. Learn to use a specialized industry-leading software package “Micro Strategy” to create interactive reports and dashboards for the Web and mobile (iPad).
2. Create interactive reporting solutions that encompass more than one report or dashboard; create channels, paths, and methods for users to explore their data.
3. Spend keyboard-time designing, creating, and testing dashboards.
4. Explore available options for learning and leveraging the software capabilities.
5. Produce attractive, useful, efficient, interactive reports and dashboards exhibiting a high degree of technical aptitude.
6. Understand business problems, information and visualizations that best communicate the data.

Education/Experience:
- Bachelor’s degree in Information Technology or related field.
- MBA-seeking student required.
- Report-writing in software like MS Access or enterprise-class tools like Crystal Reports.
- Ability to create advanced graphs, visualizations, or data layouts or calculations in Excel.

Company Description:
Valpak, one of the leading direct marketing companies in North America, is owned and operated by Cox Target Media, Inc. — a subsidiary of Atlanta-based Cox Media Group. With over 165 franchises throughout the United States and Canada, The Blue Envelope® delivers savings and value to nearly 40 million households each month. Annually, Valpak will distribute some 20 billion offers inserted in more than 500 million envelopes. Valpak also offers digital solutions with www.Valpak.com®, an online site for local savings, which has nearly 40 million offer views each month, as well as mobile phones, including apps for the most current operating systems.

Mentor: Tom Spetnagel

Hourly Rate: $17.50

HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com
Cox Target Media
Intern Job Description

Job Title: Digital Innovation Intern

Essential Duties and Responsibilities:
1. Help support the optimization of outbound content distribution and affiliate relationships.
2. Assist with the support of optimizing inbound content syndication, content marketing, and ecommerce initiatives.
3. Help implement tactics to manage and grow existing strategic partnerships to reduce costs, drive consumer engagement and traffic, and increase revenue.
4. Help to identify innovative business models in the digital space and successfully manage projects which support digital media products including print, mobile, social, email, search and web.
5. Assist with key relationship building efforts and listen in on the negotiation of complex partnership agreements.
6. Report key business indicators and financial analysis weekly, monthly and/or as needed.
7. Build relationships with fellow stakeholders in the company, including IT, new media, sales, product marketing and business leaders who will be crucial in identifying opportunities and target companies.

Education/Experience:
- Bachelors Degree in Advertising, Marketing, Information Technology Systems or Business Administration required.
- MBA-seeking student required.

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Mentor: Fred Steube

Hourly Rate: $17.50

HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com
Job Title: Digital Public Relations (PR) and Social Media Intern

Essential Duties and Responsibilities:
1. Participate in PR and Social Media strategy development and execution.
2. Participate in weekly meetings with PR and social media agencies.
3. Writing:
   a. Press release drafts
   b. Social media messages
   c. PR and Social Media articles for employee or franchise communications
4. Learning and using PR measurement tools:
   a. Monitor daily reports on coverage from television (Metro Monitoring)
   b. Monitor daily reports on print and online coverage (Vocus)
   c. Assist with monthly media reports (Vocus software)
5. Learning and using social media to communicate for the business:
   a. External: Update and monitor corporate social media channels, including but not limited to Facebook, Twitter, Google+, LinkedIn, blogs, YouTube
   b. Internal: InsideValpak, MyMazuma, Voice
6. Internet research to identify opportunities for proactive engagement.
7. Assist with community tours at Valpak Manufacturing Center.

Education/Experience:
- Must be a current Junior or Senior undergraduate or graduate student in pursuit of Journalism, Communications, Marketing or Public Relations degree.
- Current use and knowledge of Facebook, Twitter, Pinterest, LinkedIn, etc preferred.
- Computer knowledge – Microsoft Office Suite (Word, Excel, Access, PowerPoint, Outlook)
- Superior written and verbal communication skills.
- Ability to work in a fast-paced deadline oriented environment.
- Interpersonal skills to work with a wide range of individuals/groups.

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Mentor: Deanna Willsey

Hourly Rate: $12.50

HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com
Cox Target Media
Intern Job Description

Job Title: Business Intelligence Analysis Intern

Essential Duties and Responsibilities:
1. Elicit requirements for practical business intelligence solutions, for reports, dashboards, and data that the business needs, using requirements-elicitation techniques like: interview, observation, document analysis, reverse-engineering, brainstorming, prototyping, and hosting group sessions.
2. Work with business stakeholders and IT development staff, to communicate and accommodate requirements and constraints.
3. Facilitate the generation of solutions which are acceptable to both parties.
4. Negotiate acceptable compromises between ideal solutions.

Education/Experience:
- Currently enrolled as a Junior or Senior completing a Bachelor’s degree in Information Technology or related field.
- Ability to work in teams or software development experience.
- Ability to document product, system, or project requirements.
- Ability to produce documentation, or create models or diagrams in tools like Visio.
- Hands-on experience manipulating data for analysis purposes, in tools like Excel or Access.

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Mentor: Tom Spetnagel

Hourly Rate: $14.50

HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com
Cox Target Media
Intern Job Description

Job Title: Geodemographic Information Systems (GIS) Intern

Essential Duties and Responsibilities:
1. Receive and manage workload from all team members.
2. Talk to current and potential clients about their needs and learn to translate these discussions into GIS solutions.
3. Learn how leading geographic information system supplier (e.g., Esri) tools have been configured to meet Valpak business objectives.
4. Work with the Valpak information technology team on incorporating GIS business requirements into GIS solutions.
5. Reformat client supplied information to be compatible with internal GIS system using MS Excel, MS Access.
6. Understand basic aspects of standard GIS data and cartography and apply this to creating maps and reports.

Education/Experience:
Currently enrolled as a Junior or Senior completing a Bachelor’s degree in GIS or related field.

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Mentor: Jennifer Baird

Hourly Rate: $14.50

HR Contact: Nilda Almodovar, Nilda_Almadovar@Valpak.com
Cox Target Media
Intern Job Description

Job Title: Java Developer Intern

Essential Duties and Responsibilities:
1. Participates in requirement gathering sessions to gather information for use in design and development.
2. Develops software components directly from design documents.
3. Reviews code to ensure requirements and design compliance.
4. Ensures adequate unit test coverage using automated testing tool such as JUnit.
5. Monitors applications to identify where application stability, performance and maintainability can be enhanced.
6. Researches relevant technologies and recommends product upgrades and alternatives.
7. Maintains development skills by continuing education through both formal training and personal study.
8. Assists as second level support for all applications.

Education/Experience:
Currently enrolled as a Junior or Senior completing a Bachelor’s degree in Information Technology or related field.

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Mentor: Bob Damato

Hourly Rate: $14.50

HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com
Job Title: Marketing Research Intern

Essential Duties and Responsibilities:
1. Assist with the execution of primary research projects, including sample management, questionnaire development, survey programming, post analysis (may include Excel and SPSS), report development and occasionally presenting key findings.
2. Partner with team Project Manager on execution of monthly survey and activities with in-house managed online consumer panel (Opinion Connection® powered by Valpak | Research Services).
3. Use secondary data sources; develop brief reports consisting of bulleted “facts” on contemporary happenings and trends in direct mail, print coupons, digital couponing and e-commerce.
4. Learn how Valpak incorporates leading syndicated research data (e.g., Nielsen, Experian Simmons, Scarborough Research) and commercial segmentation system (e.g., PRIZM) into profiling and targeting consumers both online and with print.
5. Work with the Research Services team to enhance existing testing and post-analytic exercises related to print and e-commerce campaigns (e.g., advanced Excel or SPSS techniques).
6. Assist the Research Services team in the development of sales facing marketing materials focusing on e-commerce campaign measurement using existing Valpak reporting tools.

Education/Experience:
- Currently enrolled as a Junior or Senior completing a Bachelor’s degree in Marketing.
- Knowledge of SPSS preferred

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Mentor: Keith Malo
Hourly Rate: $14.50
HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com
Cox Target Media  
Intern Job Description

Job Title: Engineering Intern

Essential Duties and Responsibilities:
1. PLC programming/replacements for multiple projects
2. Learn WinCC SCADA software package to be able to create and modify SCADA screens for multiple projects
3. Logging process information from the PLCs that would allow study and analysis to redirect engineering efforts to optimize the system based on the data collected and studied.
4. Data collection and monitoring of alarms on various systems to assist in determining alert thresholds, life expectancy of equipment and creation of new alerts.
5. HMI programming on existing systems to help offset costs of replacements.
6. Understand business problems, information and challenges to help guide the Operations team toward improvements.

Education/Experience:
- Currently enrolled as a Junior or Senior completing a Bachelor’s degree in Electrical Engineering or related field.
- Experience with PLC logic and HMI controls.
- Data collection and analysis experience

Company Description:
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Mentor: Greg Larson

Hourly Rate: $15.00

HR Contact: Nilda Almodovar, Nilda_Almodovar@Valpak.com