Dear CSE Students:

Welcome to the third newsletter of the Spring 2015 semester.

**Undergraduate Program (CS and CpE):** A tutor is needed for a student in Discrete Structures. Anyone interested will coordinate time and pay directly with the student. If interested, see Mr. Kellner for details and contact information.

Graduation is coming sooner than you may think. To assist you, we need to have an idea of student needs, especially for summer and fall potential graduates. In particular, we need to know how many students need Ethical Issues, as it is a Capstone Exit course. Seating is capped at 25 per class; therefore, we need to know how many sections are needed to meet the demand. Fall potential graduates need to see me, so we can get an idea of the demand. Please bring your flow chart with you when you come in. (You cannot actually apply for Fall graduation until late April.)

**Undergraduate Program (IT):** BSIT Majors: If you are planning to graduate this Summer/Fall 2015, please make an advising appointment this month to go over your Graduation Checklist.

**Graduate Program:** For those of you who are defending this semester, please follow all College of Engineering guidelines in the College of Engineering Format Guide. If you need a copy of the guide, please contact Kim directly. Students interested in the Accelerated 5-year BS/MS program should attend the information session on Wednesday, February 18 from 2-3pm in ENB 313. As always, please check the CSE graduate program calendar for future deadlines and events.

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

- REUMASS Data Science 10 week summer REU at UMass-Amherst
- Summer REU on Advanced secure sensor enabling technologies at FIU
- 2015-16 HENAAC Scholarship Application Now Open
- Texas Instruments Innovation Challenge
- GEICO offers $2,500 Achievement Awards to exceptional college students
- Controls Systems Integrator – Automated Controls of Tampa
- Ultimate Die Corporation seeks part-time FileMakerPro development
- DRAPER Laboratory – Entry level software developer position available
- Reynolds & Reynolds Software Developer
- Public Health and Engineering are seeking multiple graduate and undergraduate research assistants
- Pi a Tech Leader in the Face from Nitro Mobile Solutions

Regards,

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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
**Overview:** REUMass is a 10-week research experience for undergraduates (REU) program focused on Data Science. Students work on projects under the supervision of faculty members and graduate student mentors in the UMass Amherst School of Computer Science.

**Research Areas:** Research projects are available in multiple areas of data science including applications (computational social science, computational ecology, health, and more), data analytics (machine learning, NLP, and more), and computational infrastructure (databases, cloud computing, and distributed systems).

**Program Details:**
- June 1 to August 7, 2015.
- $5000 stipend ($500/week).
- Up to $500 in travel expenses.
- Apartment-style dorm housing paid directly by the program.

**Program Activities:**
- One-week intensive data science boot camp.
- Weekly group lunch seminar.
- Visit industry labs like Google Cambridge and Microsoft NERD.

**Eligibility:** Students must be U.S. citizens or permanent residents, enrolled in an undergraduate program, and be in their sophomore or junior year at the time of application.

**Applications:** Apply at reu.cs.umass.edu by Feb. 27, 2015.

**Email:** reu@cs.umass.edu

**Web:** reu.cs.umass.edu
RESEARCH EXPERIENCE FOR UNDERGRADUATES ON ADVANCED SECURE SENSOR ENABLING TECHNOLOGIES

(Now accepting applications for Summer 2015)

FUNDED BY THE NATIONAL SCIENCE FOUNDATION AND DEPARTMENT OF DEFENSE

PROGRAM DIRECTORS: DR. NIKI PISSINOU AND DR. S.S. IYENGAR

DR PAN, DR. CARBUNAR, DR. REN, DR. SUN AND OTHER FACULTY MENTORS

What is REU?
The Research Experience for Undergraduates (REU) site at Florida International University (FIU) provides research experience to undergraduate students during a 10 week summer program starting on May 1, 2015. Surf the wave with ASSET Research! The research projects during the summer program will be centered around the theme of Advanced Secure Sensor Enabling Technologies (ASSET). Students will improve the understanding of the nature of research practice and scientific reasoning and learn the process of conducting research and hands-on knowledge of applied and basic research.

Why REU at FIU?
- Students will be paid $5,000 for doing some cutting-edge research!
- Students will work with world-renowned faculty.
- Out-of-town students are provided with housing and travel expenses.
- Students will work on cutting-edge research in the area of Advanced Secure Sensor Enabling Technologies, in team-oriented projects where each student gets to learn from his or her team-mates and building critical social interaction and communication skills.
- Provide students with a collegial partnership experience with faculty and peers.
- Improve oral and written comprehension and communication of technical knowledge.
- Spark an interest in continuing relevant research in graduate.
- And of course, students will spend a summer in Miami with its excellent Beaches and warm waters

Application Instructions are accessible [http://it2.fiu.edu/IT2_REU.php](http://it2.fiu.edu/IT2_REU.php)

Nature of Activities for Students
- Active Learners as Members of a Research Community
- Workshops and Seminars
  - Heuristics in Picking up Specific Research Skills
  - How to apply and Succeed in Graduate School
  - Technical & Professional Seminars
  - Weekly Invited Talks on Emerging Research
  - Journal Club
- Faculty and Peer Mentoring
- Recreation and Social Activities

For More Information: nsfdodreu@gmail.com

For individual projects please contact faculty mentors listed at [http://it2.fiu.edu/IT2_REU_people.php](http://it2.fiu.edu/IT2_REU_people.php)
Greetings Dr. Don:

The Great Minds in STEM (GMiS) 2015-16 HENAAC Scholarship Application Portal is Now Open!

Graduating high school seniors, undergraduate students and graduate students, who intend to or are currently pursuing a science, technology, engineering, or math (STEM) degree at an accredited college/university in the U.S. or Puerto Rico, are encouraged to apply for these merit-based scholarships. In addition, students must have an overall minimum 3.0 GPA and must be of Hispanic descent or demonstrate extensive leadership and service within the Hispanic community.

Scholarship awards range from $500 - $10,000.

In 2014, GMiS awarded over $300,000 in financial support to qualified STEM students. Since 2001, over 900 students have received more than $2.3M in scholarships.

Scholarship recipients will be invited to attend the 2015 HENAAC Conference, from October 14 – 18, 2015, in Pasadena, CA. Great Minds in STEM subsidizes over $850 in additional registration, travel and housing for the Scholars to attend this conference, where they will meet their sponsors, be awarded their scholarship and formally recognized as new members of the GMiS Scholars Society.

Information on all the various types of scholarships offered by GMiS is available on its website. Below is a sample of a few scholarships.

**U.S. Navy STEM Scholarship** - Those highly-competitive $10,000 scholarships are awarded to qualified graduating high school seniors, who have a minimum 3.0 GPA, and will be pursuing a STEM degree at a Hispanic-Serving Institution (HSI). During their first semester in college, these scholars have the opportunity to apply for the Student Employment Program, which provides them a summer internship and continued funding through their undergraduate career, so long as the student maintains a competitive GPA.

**Intel Scholarship** - These highly-competitive $10,000 scholarships are awarded to qualified students pursuing a masters degree in computer science or information technology, and have a high career interest to work for Intel.

**Lemus Medical** - This merit-based scholarship is awarded to a medical student completing their studies at the University of California, San Francisco School of Medicine.

Don't Delay. The application deadline is 11:59 PM PST, on April 30, 2015. Please forward and share this scholarship announcement.

[APPLY NOW]
Texas Instruments
Innovation Challenge
North America Design Contest 2015

Chairman's award

$10,000 1st place
$7,500 2nd place
$5,000 3rd place
Plus ten $1,000 prizes!

TI's Innovation Challenge North America Design Contest is now open to all undergraduate and graduate students of accredited universities in the U.S., Puerto Rico, Mexico, and Canada. To compete, students must use at least 2 analog ICs and a TI processor. Register for the contest early so we can help you start your design project with free tools and design support.

Step 1  Go to ti.com/tiic-na for complete rules and to see past winner's projects.
Step 2  Register and receive contest t-shirts and a $200 TI eStore coupon.
Step 3  Interested in a career at TI? Apply after registering for a guaranteed screening by recruiting!
Step 4  Submit your project by May 24, 2015.

ti.com/tiic-na

In partnership with Mouser Electronics

TI university program
ti.com/university

Texas Instruments

SSQM058A
GEICO offers $2,500 Achievement Awards to exceptional college students.

To be eligible for this program, students will:

• Be currently enrolled at an accredited four-year school
• Be a college sophomore or junior
• Have at least a 3.0 overall GPA
• Be majoring in business, IT, math or a related field
• Be a leader on campus and in the community

Applications must be postmarked by March 2.

Interested students are required to submit an application, resume, unofficial transcript, letter of recommendation and a short essay.

Questions? Email us at achievement@geico.com.
Controls Systems Integrator – Automated Controls of Tampa

Automated Controls of Tampa, Inc. is currently seeking a student to bring on board to develop into a future controls system integrator. We are specifically targeting those in EE, CE, and ME with 12-24 months remaining before graduation. Due to the cross-disciplinary nature of system integration, new graduates are not typically prepared for entry-level work in our industry, and therefore we hire students for part-time employment to develop the necessary skills for entry-level positions. This gives both parties an opportunity to see if there is a good fit.

I started at this company from the same position, and speaking from personal experience, it’s a fantastic opportunity especially for juniors because it is very hands-on, and the hours are flexible. System integration entails every aspect of the design process ranging from hashing out initial concepts on white boards to starting up and troubleshooting new installations at production and manufacturing facilities. The core of this job requires the ability to learn something new and master it in a quick and efficient manner, sometimes on a daily basis. For a quick learner who enjoys seeing projects from concept through to completion, it is particularly satisfying work.

Requirements:
- 12-24 months from graduation
- Majoring in Electrical, Mechanical, or Computer Engineering
- Ability to work at least 20 hour per week in at minimum 4 hour blocks of time

Desired skills:
- Any exposure to programming with a major programming language
- Experience with AutoCAD
- Proficiency in Microsoft Office, especially Excel
- Fundamental knowledge of Ethernet/IP connectivity and computer networking architecture
- Ability to quickly absorb new information and utilize it effectively
- Clear communication skills, both written and oral
- Very organized

We require a solid schedule for each semester, however flexibility is provided as reasonable for projects, exams, and personal requests. This position requires work Monday through Friday, 8:00am to 5:00pm (possibly earlier or later when we are busy). The minimum number of hours required is 20 and the maximum is 40 hours, in at minimum 4 hour blocks of time.

If interested, please send a resume and cover letter to Resumes@AutomatedControls.US.

Michael Brandow
Automation Specialist, VCCE
Automated Controls of Tampa, Inc.
217 Hobbs Street, Suite 101 Tampa FL 33619
Cell: (813) 735-9502
January 15, 2015

Opportunity: Seeking graduate or undergraduate fluent in FileMaker Pro, data base program.

Part time, trouble shooting and assistance in program development.

Write bossruss1@verizon.net

Immediate Requirement
Entry level software developer position available

We are looking for a strong junior developer to work on mobile and web based applications. Candidate must be proficient and have software development experience in Java, preferably on Android. Must also be familiar with web based development, especially front end user interfaces; must know JavaScript, HTML5, CSS, SQL and server side script languages such as Python.

Our office is located right on the USF campus. If you are interested please send your Resume to fgiovanetti@draper.com.
Software Developer

**Company Information:** Founded in 1866, Reynolds and Reynolds provides document and software solutions to the automotive industry ([www.reyrey.com](http://www.reyrey.com)). We offer solutions for each area of the dealership including parts, service, accounting, and sales. Reynolds employs more than 4,300 associates worldwide.

**Position Description:**
Reynolds and Reynolds has many exciting development projects for both new and existing products that would allow you to make real contributions to a winning team.

Reynolds and Reynolds develops applications and systems software for a wide variety of environments including multi-tier, client/server applications, browser-based applications, mobile applications and embedded systems. Our development environments include Windows, .NET, Linux, Microsoft SQL Server, and other databases.

Our developers are responsible for business specific analysis, technical design, coding and testing of their own projects.

Reynolds and Reynolds is looking for creative individuals who are driven to produce great software solutions. We have several entry-level positions developing cutting edge software systems and applications. These positions require intelligent, self-motivated developers who would enjoy working in an individual office environment.

**Training:**
All new developers have a mentor assigned to guide them through the training process which consists of a series of projects. The projects are self-paced and designed to provide the foundational knowledge and skills necessary to quickly become a productive member of our development team.

**Requirements:**
- Bachelor's degree in Computer Science, Computer Engineering, MIS, or other related field preferred
- Must be project, goal, and detail oriented
- High attention to detail on projects completed
- Intelligent, self-motivated developer
- Must be willing to work in an individual office environment

**Benefits:**
We strive to offer an environment that provides our associates with the right balance between work and family. We offer a comprehensive benefits package including:
- Medical, dental, vision, and life insurance
- 401(k) – 100% matching up to 6% of compensation
- Paid vacation and sick days
- Eight paid holidays
- Promotion from within
- Referral bonuses
- Associate discounts for cell phones, cars, computers, entertainment, and much more

**To Apply:**
Submit your resume directly to [apply@reyrey.com](mailto:apply@reyrey.com); or, visit our website at [www.reyrey.com/careers](http://www.reyrey.com/careers) to learn more.

Reynolds and Reynolds promotes a healthy lifestyle by providing a non-smoking environment.
MULTIPLE POSITIONS AVAILABLE

Faculty in Public Health and Engineering are seeking **multiple graduate and undergraduate research assistants** between 10 and 20 hours per week to participate in an interdisciplinary research project evaluating and developing home-based, response-oriented, sensor technology as a tool for improving the health and well-being of community residing older adults. Research assistants will be have the opportunity to participate in a unique academic-community-corporate research partnership. Initial appointments will be made for one semester and the possibility for re-appointment exists dependent on the student’s fit with the projects ongoing needs and goals.

**Project Background**

World-wide, ageing societies are facing challenges for independent living and adequate health care. Information technology (IT) for ambient assisted-living and pervasive health care/monitoring, such as sensor-based home monitoring systems, offers new opportunities to facilitate independent living and ensure health and well-being for older adults, but to date these technologies have not been well-studied in-depth and many questions about product efficacy and potential benefits need to be answered.

**Position Description**

- **GA-**ships with Tuition Waiver and/or OPS assistantships, 10-20 hours a week
- Undergraduate Research Assistantships, 10-20 hours a week

**Potential Duties**

- software development and testing of the sensor-system
- development and refinement of intelligence and alert algorithms
- analysis of quantitative and qualitative data
- results dissemination through conference presentations and journal article submissions
- other duties as assigned

**Qualifications**

- excellent written and verbal communication skills
- excellent programming and computer skills
- strong background in technology and/or engineering or related fields

Preference will be given to applicants with

- prior experience working with aging populations
- knowledge of C++, PHP, Unix/Linux environment, HTML and MySQL (please use a Likert-like scale to describe your expertise in each of these skills in your cover letter)
- Prior experience working with Z-wave technology ([http://www.z-wave.com/](http://www.z-wave.com/)) or other wireless sensory network technologies
- experience with spatiotemporal activity modelling

Submit your resume, cover letter, a writing sample, and the names and contact information for 2 references be email to the project PIs Dr. Ali Yalcin & Dr. Carla VandeWeerd, care of Caron Watkins at cwatkins@health.usf.edu.

**Positions will be open until filled, but full review and consideration is guaranteed to all applicants whose materials are received by March 2nd, 2015 at noon.**
Pi a Tech Leader in the Face from Nitro Mobile Solutions

In honor of STEM awareness, join Nitro Mobile Solutions in benefiting Computer Mentors Group

Where: Love’s Artifacts Bar & Grill
4918 S. MacDill Ave, Tampa
When: Friday, March 13
Time: 5:30-8 p.m.

Pies are just $10 each or 3/$25 cash only

FREE TO ATTEND BUT YOU MUST REGISTER!

HTTP://TINYURL.COM/NSCGGG25