Dear CSE Students:

Welcome to the second newsletter of the Spring 2016 semester.

Message from the CS and CpE UG Advisor: Graduation checkouts are currently underway. Those of you who are planning to graduate this semester should take a minute to look in DegreeWorks and double-check that all of your degree requirements will be fulfilled by the end of the semester. For everyone else, registration is coming in March, so you may wish to take a minute to think about what you'll be taking after this semester. You can find the departmental flowchart at www.usf.edu/engineering/cse/undergraduate, or you can drop by ENB 344F to discuss your schedule with Dr. Hendrix. The undergraduate FAQ on the CSE website is still growing; we would encourage all of you to check it out, if you've not done so. http://www.usf.edu/engineering/cse/undergraduate/index.aspx.

Message from the IT UG Advisor: Tim Nale, the North American Director of IT for BIC Graphic USA will be coming to USF on 16-Feb at 6:00 in CUTR 202 to give a presentation on “IT Operations Complexity”. If you have never attended an IT seminar before, this is one of the better ones to attend.

Message from the Grad Program Assistant: No message from the graduate program for this issue.

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

- Summer Institute in Biostatistics (SIBS)
- Undergraduate Computer Research at Oakland University
- University of Notre Dame REU Data Intensive Scientific Computing-DISC
- USF Education Abroad Mysore INDIA: June 12—June 30, 2016
- Research Assistants Wanted
- IgniteCS from Google
- Programmer Needed - Medical Education and Certification Project
- IT Position for Web Commerce Performance Team at Rooms-to-Go
- Small Business owner needs app for pedicab business
- Second TEAm Technology Virtual Career Fair Hosted by UCF, USF, & FIU – March 22, 2016

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
Attention all mathematics, statistics, and science students seeking a summer opportunity!

Additional Program Information
SIBS programs will be held in the summer of 2016. More detailed information, including program dates, application procedures, and deadlines, are available at the following websites.

- **Boston University**
  [http://sph.bu.edu/sibs](http://sph.bu.edu/sibs)

- **University of Iowa**

- **University of Minnesota**

- **Emory University**
  [http://sph.emory.edu/departments/bios/sibs/index.html](http://sph.emory.edu/departments/bios/sibs/index.html)

- **NC State University – Duke University**

- **University of Colorado-Denver**
  [http://www.ucdenver.edu/academics/colleges/PublicHealth/departments/Biostatistics/CoSIBS/Pages/CoSIBS.aspx](http://www.ucdenver.edu/academics/colleges/PublicHealth/departments/Biostatistics/CoSIBS/Pages/CoSIBS.aspx)

The Summer Institutes in Biostatistics are sponsored by the National Heart, Lung, and Blood Institute. More information can be found at [http://www.nhlbi.nih.gov/funding/training/redbook/sibsweb.htm](http://www.nhlbi.nih.gov/funding/training/redbook/sibsweb.htm).
The Computer Science and Engineering Department at Oakland University invites students to apply to its twelfth summer of an NSF-funded Research Experience for Undergraduate students. The students selected to participate will be immersed in a research environment under the mentoring of CSE faculty.

This program is a full-time comprehensive educational experience targeted to women in particular. It should be understood by the students that this position is not merely a summer job, but rather an educational experience where the students are treated as junior colleagues.

Participants will receive a stipend of $5,000 for the ten weeks, meal allowance, and travel subsidy for either travel to and from the program or to attend a conference.

**Program features:**

- 10 weeks full time research program from May 23rd through July 29th. Students can not be working or taking classes at the same time.
- Research in teams of 2 under close supervision by CSE faculty and graduate students.
- Variety of research topics available in Secure and Trustworthy Cyberspace.
- Students receive a stipend of $5,000, meal allowance, and travel subsidy to attend a conference.

**Requirements:**

- Open to all undergraduate students who are graduating after August 15, 2016 (US citizens and permanent residents) with an interest in Computer Science and Engineering.
- Students will be selected based on statement of interest, GPA and letters of recommendation.

**Application Deadline**
March 15, 2016

Program information and application forms are available at: [http://cse-reu.secs.oakland.edu/](http://cse-reu.secs.oakland.edu/)

For more information contact Professor Fu (fu@oakland.edu) or Professor Shu (shu@oakland.edu)
UNIVERSITY OF NOTRE DAME

Research Experience for Undergraduates (REU) Data Intensive Scientific Computing—DISC

DISC combines big data, big science, and big computers at the University of Notre Dame. Outstanding undergraduates are encouraged to apply for this summer research experience in DISC. Students will spend ten weeks at Notre Dame learning how to use high performance computing and big data technologies to attack scientific problems.

Program Dates: May 24-July 30, 2016

Majors Encouraged to Apply
• Computer Science
• Physics
• Biology

Funding
• $5,000 stipend
• On campus housing
• Travel allowance

Program and Application Information
http://disc.crc.nd.edu

Application Deadline
Applications received by February 15, 2016 will be given first consideration

Questions? Email Kallie O’Connell at koconne8@nd.edu
India ISM Infosys

This program offers an unparalleled opportunity for students to gain cutting-edge information systems courses in one of the world’s most vibrant and fascinating cultures. India has experienced meteoric economic growth over the past decade, and it is predicted that by 2050, it will have the third largest economy in the world. India is also considered to be among the leaders in providing information technology services and innovation. The 3-week intensive IT Summer School will be conducted in Mysore, India at the training and education facilities of one of the world’s IT industry giants: INFOSYS. The program is open to undergraduate and graduate students who have completed course work or have relevant work experience in System Analysis and Design, and Object Oriented Programming. Pre-requisites for participating in this program are ISM3113 and ISM 3232 or equivalent course work/work experience.

A previous program participant had this to say about the program:

Going to India was the most amazing experience of my life . . . I will treasure the moments forever. The educational experience was paramount. I am going to practice and apply the methods I’ve learned in Software Engineering to other areas of IT.

http://educationabroad.global.usf.edu/?go=indiaism

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bp@usf.edu

Administrative Contact
Krissy Loveman
Education Abroad, CGS101
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USF Education Abroad
Mysore
INDIA: June 12—June 30, 2016

http://educationabroad.global.usf.edu/?go=indiaism
Research Assistants Wanted

The USF Memory Modeling Lab is seeking research assistants to help create an application that will help individuals remember past experiences. The research involves working in an integrative, interdisciplinary environment to transfer basic cognitive science research to everyday, complex situations. The researcher will work collaboratively with cognitive psychologists, statisticians, and computer scientists in order to implement Bayesian network models in smart phone devices. Relevant programming expertise is required. We seek candidates knowledgeable of database management, audio and video recording, and GPS technology. Interests in the processing and disseminating neural recordings is desirable. These are unpaid positions, but there is potential for intellectual property sharing depending on contributions.

To apply send a copy of a current CV to malmberg@usf.edu.
IgniteCS from Google

Shilpa Dasgupta <dasguptas@google.com>  
To: christen@cse.usf.edu, Erin Mindell Cannon <mindell@google.com>  

Dear Professor Christensen,

We have just launched a new opportunity called igniteCS that I thought might be of interest to you. Through igniteCS, we are inviting groups of undergraduate students to develop a mentoring project in their local communities and apply for funding, resources and industry mentors.

This initiative stems from our desire to bolster what you are teaching in the classroom and give students a way to apply that knowledge in the real world. We want to give young women and other underrepresented groups in CS a little extra support and encouragement, which is what we hope to do with this program.

Students can find out more information by visiting our website: q.co/igniteCS. Although our website is not accepting any more applications, interested students who are willing to run a program this year can still submit applications to be considered via our Extended Application Process. They just need to apply by filling out this application form with code: IGNITE2016.

I am attaching a flyer, as well. If you are willing, it would be great if we can get this up on your campus in any location where it may reach interested students: career centers, CS&E departments, cafeterias, etc.

I am available for questions, should you have any. You may also direct any student questions to our group email, which is: igniteCS@google.com

Best Regards,

Shilpa Dasgupta, PhD | Program Coordinator | dasguptas@google.com

IgniteCSflyer.pdf
2626K
PROGRAMMER NEEDED

MEDICAL EDUCATION AND CERTIFICATION PROJECT

The American Board of Cardiovascular Medicine, Inc. is a Medical Education and Certification Organization that provides education to cardiac professional working in all areas of cardiology.

We have developed teaching modules in PowerPoint format and Certification Examinations for each of our teaching programs that we are needing a program written for online use.
We are seeking to hire a computer programmer to assist us with this exciting project for cardiac professionals.

Course and Exam Specifications: Security is of paramount importance to this project.

1) Development of an online educational platform for our various PowerPoint Courses.
   At the end of each module there will be a multiple choice quiz.
   The quiz needs to be graded with results provided to the user.
   There needs to be a CE certificate available to be printed after satisfactory completion (we provide a copy of the certificate—a boiler plate document)
   The course should not be able to be printed, copied, emailed, or saved on the users computers or other computers.
   There will need to be a username and password where students can login and out until they complete each module within the course.
   Once the course is completed and grades are given, the student should not be able log back into the course.

2) Development of an online testing platform for our board certification exams consisting of multiple choice and a few true false questions. (These are currently in a Word document).
   The exams need to be graded with results provided to the user upon completion.
   The exams should not be able to be printed, copied, emailed, or saved on the user’s computers or other device.
   There will need to be a username and password where students can login and out of the exam which will be a timed exam.
   Once an exam is completed and grades are given, the student will not be able log back into the exam.

3) The programmer should be available to handle any online issues we may run into with the courses and exams once they are launched on the web on our server, and for possible future developments of products and services.

Salary will be commensurate with the experience of the programmer. Interested candidates should submit a detailed resume of their programming experience to Jonni Cooper, CEO/President of the American Board of Cardiovascular Medicine, at jcooper@accn.net or by mail to: ABCM, Inc., P.O. Box 3219, Spring Hill, FL 34611. Visit us at www.accn.net. Once we receive your resume, Ms. Cooper will set up initial phone interviews and then person to person interviews to candidates of interest.
IT Position for Web Commerce Performance Team at Rooms-to-Go

POSITION SUMMARY

Principle contributor to the Web Commerce Performance Team’s objectives. Works closely with internal and external teams to ensure that the RTG’s web commerce sites are highly available, have sufficient capacity, and consistently excellent performance. Provides support for Development and QA teams by ensuring consistent, proactive, delivery of IT infrastructure, and will be a champion for continuous deployment. The candidate should possess a passion for operational excellence and a high level of interpersonal and soft skills necessary to work collaboratively across the ITI universe.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Expert knowledge of Information Technology, including internetworking, operating systems, relational database systems and information security
  - Expert with multiple operating systems such as Linux, Unix, OSX, Windows
  - Expert with a scripting language such as Perl, Bash, or PowerShell
  - Good Knowledge of Disaster Recovery/Business Continuity process/planning

- Extensive knowledge of application software development areas:
  - Development methodologies such as waterfall or agile
  - Common application software architectures, such as multi-tier, distributed, client-server, microservices, SOA
  - A common development language such as Java, C# or C/C++
  - Web services technologies, including SOAP and REST, tools such as Soap UI/Load UI
  - Tools and techniques such as Jira, Git, Jenkins, Maven, or ANT.
  - One of the common application stacks such as Red Hat/JBoss, IBM/WebSphere or Oracle/WebLogic
  - A load test tool such as Gomez Load 360, Apache JMeter or HP Load Runner

- Expert knowledge of monitoring tools and technologies in use in the industry
  - Good working knowledge of an automation tool such as UC4, Ansible or Microsoft System Center
  - Expert knowledge of a common APM tool such as Dynatrace or Riverbed
  - Good working knowledge of a common NPM tool such as Riverbed, SolarWinds or Dynatrace
  - Good working knowledge of a CAPS tool such as SolarWinds, CA Nimbus, or Nagios
  - Good working knowledge of Splunk
  - Good working knowledge of JVM and CLR tuning and fundamentals.

- Expert knowledge of data analysis tools and techniques for structured and unstructured data, including statistical analysis using RDMS and NoSQL type platforms.
  - Good working knowledge of a query language such as SQL, T-SQL, SPL, or PLSQL
  - Good working knowledge of an RDBMS solution such as MS SQL, Oracle, or DB2
  - Good knowledge of a database monitoring solution such as DELL Spotlight or Oracle Grid Control
  - Good working knowledge of database tuning for a RDBMS platform

- Establishes and maintains a professional working relationship with all IT users, IT staff and any external vendors

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4301 W Boy Scout Boulevard, Suite #590, Tampa, FL, 33607
Hello

I am a small business owner.

I am a pedicab business owner with operations in New York City.

Pedicabs operate in Midtown Manhattan, the busiest district in the United States.

I need help to get a mobile phone app (Android & IOS) built for pedicabs. This app will be similar to UBER but less sophisticated. From what I understand, 3 separate apps are required for this kind of app: driver app, passenger app & a server app. Passengers will be able to hire a pedicab on demand anywhere in Midtown Manhattan.

I also need help to make sure the app runs and is maintained properly.

For more information, please call Ibrahim Donmez @ (212) 961-7435.
Second TEAm TECHNOLOGY VIRTUAL CAREER FAIR

Hosted by UCF, USF, & FIU – March 22, 2016

REGISTER NOW

https://www.careereco.com/Fair/EventDetails?fairId=4469c896-31fd-4e32-af43-a56e00fee607

(This online event is an easy, efficient way to meet employers!)

Featuring Full-time, Intern, & Co-op Jobs for Computer Science & Technology Majors!

Florida Consortium of Metropolitan Research Universities

Technology Virtual Career Fair March 22, 2016