Dear CSE Students:

Welcome to the third newsletter of the Fall 2017 semester.

**Message from the UG Advisor:** Registration is underway. You should plan to see me if you have questions, trouble registering, or you cannot get a full schedule—especially if you are close to graduation. Speaking of which, if you plan to graduate in spring, you must submit a graduation checklist. While my advising schedule is filled, I do hold walk-in hours every day. These hours are posted on my office door (ENB 342B) and on the CSE website under “Contacts”. Occasionally, other obligations take me away from my office during walk-in hours. I will post a notice of my door in the event that there is a walk-in schedule disruption. You should also contact me if you were unable to attend the Cybersecurity Information Session and you have specific questions about the program. I have added a number of additional advising hours to my schedule to accommodate interest in this new program.

**Message from the Grad Program Assistant:** Registration for Spring 2018 has opened! Make sure that you are only registering for the courses you need. Keep in mind that you must have at least one course registered prior to add/drop week to avoid a late registration fee. If you will be graduating in Spring 2018, the college deadline is December 1. You must apply for graduation via OASIS and fill out a Graduation Checklist, Plan of Work and Committee Form only if you are a PhD or MS-Thesis student. If you have any questions, please see me in ENB 342D.

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

- Pathways to Science Scholarships, Fellowships, & Postdocs
- SOAR is looking for cool ideas
- Spring 2018 undergraduate assistant for developing simulations, 5-10 hours/week at $20/hour
- USF and MedT LLC development team for cutting-edge tech in mobile medical monitoring
- JL Marine Software Developer Intern
- Mind Sumo projects

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Pathways to Science Scholarships, Fellowships, & Postdocs

I'm hoping you would be willing to help us get the word out about the undergraduate scholarships, graduate fellowships, and postdoc positions we have listed in our searchable database of STEM programs.

Students are often surprised at how early scholarship and fellowship application deadlines are, so we are trying to get this last reminder out now, before the majority of the deadlines have passed!

Thank you in advance!

30+ undergraduate scholarships: http://www.pathwaystoscience.org/programs.aspx?u=Undergrads_Undergraduate_Students&r=&s=&i=&sa=either&p=YesPortable&o=either&c=either&f=&dd=&ft=&submit=y&adv=adv

30+ graduate fellowships: http://pathwaystoscience.org/Grad.aspx

170+ postdoc positions: http://pathwaystoscience.org/Postdocs_Portal.aspx

Follow us on Facebook: https://www.facebook.com/Pathways-to-Science-120825625433/

Liv Detrick, Senior Advisor
The Institute for Broadening Participation (IBP) www.PathwaysToScience.org

The mission of the Institute for Broadening Participation 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 and supporting individuals from underserved communities and underrepresented groups, including underrepresented minorities, women, persons with disabilities, first-generation college students, and students from underserved communities. The Institute for Broadening Participation is a 501(c)(3) organization, tax ID #20-1891162. Your contribution is tax-deductible to the extent allowed by law.
Hello,

My name is Yehia Helwa and I am the Payload team manager for the Society of Aeronautics and Rocketry (SOAR). SOAR is proud to announce that we are currently looking for payloads to put into our rockets and we want ideas! Our rockets go through a lot such as extreme acceleration and high altitudes/speed, this allows for a unique opportunity to gather data or perform an experiment up in the air. We are looking to include other disciplines other than engineering into our projects and are excited to help in anyone's research. If you have any questions, projects, or even cool ideas please don't hesitate to contact me.

Thanks, and I hope to hear from you!

Yehia Helwa  
E-mail: yehiahelwa@mail.usf.edu  
Phone: (813)-385-2391
Dr. Kaw is looking for one computer science undergraduate to write JavaScript simulations for a course in numerical methods for Spring 2018 and beyond.

**Initial Appointment:** January 2018-April 2018.

**Eligibility:** Well versed with graphical and plotting aspects of JavaScript and must have used it to write web-based programs. No experience in numerical methods is expected. Should not be graduating before August 2018.

**How many hours:** 5-10 hours/week.

**Pay:** $20/hour.

Contact Dr. Kaw via email first at kaw@usf.edu
ATTENTION USF COMPUTER SCIENCE AND ELECTRICAL ENGINEERS

USF AND MEDT LLC ARE OFFERING AN OPPORTUNITY TO
BE PART OF A DEVELOPMENT TEAM DEVELOPING CUTTING-EDGE
TECHNOLOGY IN MOBILE MEDICAL MONITORING

• SUCCESSFUL SELECTED CANDIDATES WILL RECEIVE NATIONAL AND INTERNATIONAL RECOGNITION AS WELL AS A SHARE OF THE [ALREADY] FILED PATENT AND COPYRIGHTS OF THESE DESIGNS

The Selected Tech Team will develop:

• * Mobile app which converts any mobile device into a medical monitor
• * Specialized hardware that monitors all vital signs and scans injuries
• * Wireless emergency medical contact capabilities

• ALL technology has been copyrighted and patents filed.
• There are 125,000 pre-production units ordered for the hardware. The Mobile Application has 2 major mobile providers pending its development. All are domestic and internationally recognized entities.
• ALL interested candidates should contact Kori Rivers at cmdirector@medtlc.co or call the on-campus office line at (813) 974 7453

*The company will launch its website once its backlog of 125,000 units are produced to maintain market edge
Software Developer Intern

**Department:** Software Engineering  
**Reports To:** Amit Patel  
**Employees Supervised:** None  
**Location:** 9010 Palm River Road  
**Tampa, FL 33619**  
**Status:** Full-time  
**FLSA Status:** Non-Exempt

Our mission is to share a sense of adventure with the world through our high performance marine products while instilling and inspiring consumer confidence with superior service.

**Software Developer Intern Overview:**

The Software Developer Intern will maintain, audit and improve systems to meet particular needs, as well as be responsible for writing custom add-ins to assist engineering department automate repetitive tasks and assist with cumbersome processes.

**Company Values:**

- **Exceptional Client Service** – Our customers are our life blood, we treat them as the essential partners that they are by going the extra mile and putting customer needs first
- **Innovation and Growth** – Always looking to acquire new information and try new things to improve how we work
- **Ethical Orientation** – Earns the trust and confidence of coworkers and customers through honest communication, ethical behavior and professionalism in all interactions
- **Driven & Passionate** – Shows passion for improving the delivery of services with a commitment to continuous improvement

**Software Developer Intern Essential Functions:**

- Demonstrate familiarity with SolidWorks API and SolidWorks PDM Professional API
- Write custom add-ins for SolidWorks products using VB.net or C#
- Develop macro's or add-ins for MS Office suite to assist with sorting data or streamlining repetitive tasks
- Identify areas where an add-in can save time or alleviate mistakes
- Comment work for easy debugging or future improvements
- Maintain SRS (software requirement spec) for each project
Educational/Experience Requirement: Associate’s degree (AA) or equivalent from 2-year technical school; or 6-12 months related experience and/or training; or equivalent combination.

Knowledge, Skills and Abilities (KSAs):

- **Critical Thinking**—Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- **Active Listening**—Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- **Coordination**—Adjusting actions in relation to others’ actions.
- **Active Learning**—Understanding the implications of new information for both current and future problem-solving and decision-making.
- **Social Perceptiveness**—Being aware of others’ reactions and understanding why they react as they do.
- **Service Orientation**—Actively looking for ways to help people.
- **Time Management**—Managing one’s own time and the time of others.
- **Systems Analysis**—Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.
- **Complex Problem Solving**—Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

**Language Skills:** Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

**Mathematical Skills:** Ability to work with mathematical concepts such a probability and statistical inference, and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.
Problem Solving Ability: Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral diagram, or schedule form.

Computer Skills: Proficient computer skills including electronic mail, record keeping, routine database activity, work processing, spreadsheets, graphics, etc.

- Good understanding of C# and/or VB.net language
- Good understanding of SQL
- Experience using Visual Studio
- Understanding or experience with Windows based software APIs

Working Hours:

- To be determined in coordination with class schedule

Working Conditions/Physical Demands of the Job:
The work environment characteristics described here are representative of those typical in an office environment, using phones, computers, and copiers. The noise level in the work environment is usually moderate.
While performing the duties of this job, the employee is regularly required to talk or hear. The employee frequently is required to stand; walk; use hands to finger, handle or feel; and reach with hands and arms. The employee must frequently lift and/or move up to 25 pounds. Reasonable accommodations made to enable individuals with disabilities to perform the essential functions.

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.
MindSumo Projects

Dear Students,

Please review the latest computer science projects from MindSumo. MindSumo partners with employers to create projects that you can complete to get work experience, win prizes, and be hired for jobs and internships. Questions can be directed to isha@mindsumo.com

**IBM**-Can you use IBM Watson to build the ultimate chatbot?  - $1,600 in prizes

How would you make home voice control more effective?  - $1,600 in prizes

**Amazon Alexa**-Build the Ultimate Game for Amazon Alexa  - $1,600 in prizes

Direct Links:
https://www.mindsumo.com/contests/chatbot
https://www.mindsumo.com/contests/home-voice-command
https://www.mindsumo.com/contests/amazon-alexa-game

Thank you!

Isha Punjabi  |  University Relations  |  MindSumo Inc.  |  www.mindsumo.com