Dear CSE Students:

Welcome to the fourth newsletter of the spring 2014 semester.

**News from the Undergraduate Program:** Registration for the summer 2014 and fall 2014 semesters starts on Monday, March 24, 2014. Please check Oasis to get your registration date. Register early to get the classes you want.

**News from the Graduate Program:** For those of you planning to defend your thesis/dissertation this semester, please remember to book a room/projector and send me your announcement at least two weeks in advance. For Ph.D. students, the Admission to Candidacy deadline for this semester is April 11. At this time, I will need your Admission to Candidacy form, Plan of Work and Committee Form. For those of you planning on graduating in the summer, your graduation checklist is due April 18. Your graduation checklist must be submitted before you can apply for graduation through OASIS.

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

- National Academies awards
- The 2014 AMALTHEA REU Program at FIT
- GFI Internship Opportunity
- Programming/IT Support at USF Research Park
- Programming Positions Available – USF Health
- Part-time On-campus Developer Position: Virtual Surgery Project
- Customer Support Engineer 1 position at Impulse Point

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.cse.usf.edu/newsletter
More detailed information and an online application can be found at [www.nationalacademies.org/rap](http://www.nationalacademies.org/rap).

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior 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 Web site (see link above).

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

There are four annual review cycles.

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
Review Cycle: February; Opens December 1; Closes February 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 Research Council
The National Academies
500 5th Street NW, Keck 568
Washington, DC 20001
THE 2014 AMALTHEA REU PROGRAM

AN OPPORTUNITY FOR A 10-WEEK RESEARCH EXPERIENCE FOR UNDERGRADUATE STUDENTS is available in the area of Machine Learning. The program is sponsored by the National Science Foundation and is offered by the Information Characterization & Exploitation (ICE) Laboratory at Florida Institute of Technology (FIT) in Melbourne, Florida.

Machine Learning (ML) gradually evolved as a branch of Artificial Intelligence with its theory and applications positioned at the juncture of Computer Science, Engineering, Mathematics, Statistics and, even, Physics. Nowadays, ML’s role in successfully addressing hard, real-world technological challenges has become ever more current and central. Moreover, its presence and importance now permeates several aspects not only of cutting-edge technology such as computer vision, stock market prediction and big data analytics, but also our daily life through voice-driven searches on our smart phones or movie recommendations on video streaming services to name only a few.

The program currently accepts applications in order to form a very diverse, multi-disciplinary cohort of nascent researchers for this summer. Minorities, women and people with disabilities are especially encouraged to apply.

ELIGIBILITY

Without exceptions, applicants must be:

=> Majoring in an Engineering or Science discipline
=> US citizens or permanent residents
=> Undergraduates in good academic standing

BENEFITS

=> Exposure to the exciting world of Machine Learning and its applications
=> Participate in a one-week crash course to familiarize yourself with Machine Learning
=> Work with experienced student mentors and experts in the field
=> Participate and contribute to cutting-edge Machine Learning research
=> Take part in visits to our local industry
=> Paid travel and accommodation expenses
=> Receive a competitive stipend for per diem expenses
=> Visit Central Florida venues such as Disney attractions and NASA’s Kennedy Space Center
=> Meet new people
=> Make new friends

Application Deadline: March 30, 2014

Apply online: http://www.amalthea-reu.org

For more information, visit our Web site at www.amalthea-reu.org or contact:

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Florida Institute of Technology
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Melbourne, Florida 32901-6975
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Looking to gain valuable experience?

GFI Software has an outstanding internship opportunity for (Masters, or Senior-level) students to work with a recognized leader in the field of wireless protection technologies.

We are a dynamic technology company that develops on premise, cloud-based, easy-to-use & affordable hybrid solutions for small to mid-sized businesses, as well as managed service providers (MSPs). We cure the common IT pain points of our customers so they can focus on their top priorities: maximizing time, minimizing costs and growing their business.

Description

• Support research and development in the GFI Wireless Department. The best qualified applicants must possess a good skill set in computer programming, networks, and security in general and wireless networks in particular.
• Selected intern will complete a set of defined tasks in a professional and productive environment, including (but not limited to) quality assurance, researching wireless protocols, wireless signals, and field testing in addition to developing proof of concept code.
• Internship length may range from 3-6 months, with flexible scheduling available.
• This is a paid internship, based on level of experience and knowledge.

Interested in coming on board with us?

Contact nathan.young@gfi.com for more details!
Title: Computer Programmer for Oceanographic Studies

Location: U.S. Geological Survey, St. Petersburg FL

Job Description:
The U.S. Geological Survey Coastal and Marine Science Center in St. Petersburg, FL is currently seeking a computer programmer to assist with a variety of oceanographic research projects. The position will interact with scientists working in coastal hazards, coral reefs, and remote sensing research areas. Applicants should be self-motivated with a strong background in computer programming. The position is available as a summer internship with the potential for on-going employment during the academic year. For highly-qualified applicants who graduated within the past 12 months, a full-time position, available immediately, will be considered.

Primary Responsibilities include:
- developing algorithms to merge and interpolate different types of elevation data
- process and analyze oceanographic and meteorological data
- process and analyze image data pertaining to coral reefs
- develop tools to extract features from coastal image data (e.g., shorelines, sand dunes)

Required Skills and Experience:
- Currently enrolled undergraduate/masters student or recent graduate with a degree in Computer Science, Engineering, Mathematics, or closely related discipline.
- Proficiency in Python and/or Matlab required
- Strong analytic and mathematical skills
- Ability to work independently
- Ability to pass a background check and work in the U.S.

Interested candidates can contact Joe Long at jwlong@usgs.gov or call 727-502-8024.
Job Title: Programming/IT Support

Contact: careers@modelithics.com

Description:
Require someone with a strong programming background in C and C++ with the ability to efficiently multi-task, in an ever changing environment. Must be able to develop, design and troubleshoot application programming interfaces (API). Duties entail some combination of software testing of application models, development of Installers, Web design and update, troubleshooting Windows operating systems, and working with Microsoft Office. Interfacing with customers, primarily by email for web registration and installation and use support is also a possible component of the position. Position to start part-time with full-time potential.

Required Skills:
C++, C
CSS3
HTML5
SQL Query
ASP.NET
Javascr ipt or Jquery
Strong Documentation
Microsoft Office

Preferred Experience:
Database driven Web Design with ASP.NET
Flexera
Linux
Dot Net Nuke CMS or a CMS
Web site form development
Graphic Design
SEO
Reporting using SQL Query
Windows XP, 7, 8
Visual Studio 2005, Visual Studio 2010
Flex LM Licensing
Understanding of Basic Electronics
Labview
Java
InstallAnywhere
CRM
CMS

Location:
USF Research Park, Tampa, Florida.

Duration:
Part time with a possibility of Full Time
Programming Positions Available

USF Health Information Systems is looking for motivated, full time OOP programmers that understand database design/interaction

Location: USF Health IS (MDF 2\textsuperscript{nd} floor)

We presently have 4 openings for full time programmers

1. JOB ID 2245 UAI Applications Developer (web apps and includes using C# windows and web services to transfer data)

2. JOB ID 2156 Applications Developer-Patient Portal (web apps and includes using C# windows and web services to transfer data)

3. JOB ID 3787 Corporate Learn Developer (PHP Programmer primarily, but may get into other languages as well)

4. JOB ID 3721 Faculty Directory Developer (Coldfusion/C#.net ASP, may include others, Coldfusion experience is not required)

How to Apply

Access the link listed below

http://www.usf.edu/about-usf/work-at-usf.aspx

1. Click on Access Careers@USF
2. New User?—You will need to register to create an account
3. Use Advanced Search and you can use the job codes listed above to find these openings or use a key word such as developer.

If you have any questions please email isadmin@health.usf.edu or call 813-974-7555.
Part-time On-campus Developer Position: Virtual Surgery Project

Seeking a Computer Science or Engineering student (undergraduate or graduate) with experience in augmented reality technology. We are creating medical softwares for surgical visualization.

Skills:

- Augmented Reality Experience (preferred)
- C#/C++/Java (required)
- Unity 3D (preferred)
- Problems solving skills

Salary

- A minimum of 10 hours per week will be expected. The salary is $20/hr.

Contact:

Segundo.gonzalez@moffitt.org
Impulse Point offers a highly competitive compensation package and the professional advantage of an environment that recognizes your contributions and supports continued personal development. Impulse Point offers a comprehensive benefits package which includes Medical/Dental/Vision Insurance Plan options, Flexible Spending Accounts, Health Savings Accounts, 401K Retirement Plan, Life Insurance, Equity Participation, Vacation, Sick and Holiday Paid Time Off, and Tuition Reimbursement. Impulse Point is an Equal Opportunity Employer.

Impulse Point – Customer Support Engineer - 1

JOB SUMMARY

Impulse Point is a rapidly growing software company focused on managing personally-owned mobile computing devices within large, heterogeneous network environments (BYOD) like Higher Education, K12, Healthcare and Enterprise markets.

The Customer Support Engineer 1 (CSE) role has responsibility for Level 1-2 technical support for Impulse Point Level 2-3 customers and partners. The CSE reports directly to the Customer Support Manager (CSM). The ideal candidate will be a high energy, extrovert willing to work within a fast pace atmosphere to support the dynamic and varied technical environments and needs of Impulse Point’s customer base.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Provide our customers with a first line of software support for our range of products.
- Responsible for maintaining a superior-level of customer satisfaction
- Case tracking, troubleshooting, routing of issues, and problem determination/resolution documentation using our Salesforce case management system.
- Log customer interactions, including problems, solutions, and time tracking for all support activities
- Escalate issues and engage appropriate technical resources.
- Participate in the use, contribution and administration of our internal technical support wiki
- Create and update customer facing documentation for use in training and end user support
- Stay current with system information, changes and updates
- Participate in on-call after hour rotation duties with other support engineers
- Other duties as assigned

EDUCATION AND EXPERIENCE

- Must have 4 year bachelor’s degree in a technical area (i.e. Engineering, Computer Science, MIS) or 4+ years equivalent technical support work experience
- Strong understanding of Linux fundamentals and associated software
- Successful remote customer support and management expertise
- Experience troubleshooting software and network problems in Windows, Apple OS X, Linux, iOS, and Android environments

KEY COMPETENCIES

- Strong communication & interpersonal skills to effectively deal with various management levels, peers & end user needs
- Ideal candidate should be familiar with the following:
  - Linux command line scripting
  - Ability to create queries in MySQL/MariaDB
  - Understanding of IP Tables and Firewall technology
  - Wired and wireless network technology, routing, and topology
- Independent learning skills and self-management
- Problem-determination, problem-solving, and adaptability skills
- High level analytical and problem solving skills, attention to detail, as well as a strong ability to plan & prioritize schedules and resources
- Time management for ensuring task and goals are met on time and within SLA
- Good customer service orientation to ensure internal & external customer needs are addressed
- Ability to work in a fast paced environment with minimal direct supervision
- Must be self-motivated and able to work in a team environment
- Assesses own strengths and weaknesses
- Pursues training and development opportunities
- Shares expertise with others