Dear CSE Students:

Welcome to the fourth newsletter of the Fall 2017 semester.

**Message from the UG Advisor:** We are nearing the end of the fall 2017 semester. Many of you will be occupied with final exams and holiday plans. However, please don’t lose focus if you are still adjusting your spring 2018 registration. Don’t delay decisions about your schedule—especially if you are registered for more courses that you plan to take. If you are not fully registered and need assistance, feel free to visit during walk-in advising hours or schedule an appointment through eScheduler. You can find a list of advising options under “Contacts” on the CSE website. Good luck on your final exams and enjoy the winter break.

**Message from the Grad Program Assistant:** If you are a PhD student who needs to take the Qualifying Exam, please visit our website for detailed information on how to book your appointment through USF Testing Services. The University deadline for Spring 2018 Graduation Checklists is February 2, 2018. Please see Gabriela Franco in ENB 342D if you have any questions. Registration for Spring 2018 has opened. Please make sure you register before January 1 to avoid a late registration fee.

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

- Cybersecurity internship opportunity at Abacode
- Webmaster
- Kaligia Biosciences – Software Development Engineer
- Nova Medical Technologies
- Bioinformatics Analyst Position
- Looking for a Tutor!

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Abacode Cybersecurity (https://abacode.com) is currently hiring part-time Security Operations Center (SOC) Tier 1 analyst interns. These positions entail learning how various Security Information and Event Management (SIEM) solutions work, helping watch for security-relevant events, and escalating these to a Tier 2 manager according to incident response protocols. Students who are looking for entry-level, real-world cybersecurity experience will find this work to be a good résumé and skills-builder. Entry level pay typically starts at minimum wage, but there is a path to bigger & better. If you show good aptitude and drive, we will quickly increase your pay-rate and give you creative ownership of projects.

The ideal candidate will have a good foundational knowledge of computing, networking, and programming, with a desire to gain experience in the cybersecurity sector.

Abacode has an office in the USF Connect building (3802 Spectrum Blvd., Suite 102), directly across the street from ENB on the Tampa campus.

Abacode is a cybersecurity consulting firm that specializes in continuous monitoring/outsourced SOC, along with assessments, penetration testing, training, forensics, and related services. Abacode Chief Technology Officer Jeremy Rasmussen is an adjunct faculty member in Computer Science & Engineering at USF and the founder of the Whitehatters Computer Security Club (WCSC) http://www.whitehatters.org. Rasmussen was named 2017 Technology Leader of the Year for Tampa Bay.

For more information, please check out https://abacode.com/careers or send your résumé to insight@abacode.com.

NOTE: FOR THIS POSITION, U.S. CITIZENSHIP IS REQUIRED.
Webmaster

Webmaster Duties

Hours: 20/wk

Pay: $15/hr

Start Date: Immediate

Position Description:

- Maintain PCGS website utilizing OU Campus CMS
- Update website as required
- Create new content as required
- Troubleshoot issues with the University Communications & Marketing
- Coordinate marketing campaign with PCGS supervisor and Marketing team
- Support and maintain internship blog
- Utilize social media to promote PCGS via organic marketing
- Conduct weekly website and social media analytics
- Manage Search Engine Optimization (SEO) and key words
- Produce weekly report for submission to supervisor and Dean

Special Requirements/Skills preferred:

- Familiarity with CMS systems (WordPress, Joomla!, Drupal)
- Experience with website development, HTML coding and maintenance
- WordPress experience
- Social media proficiency
- LinkedIn and Adobe platform (InDesign and Creative Suite)
- Graphic/Image design
- Google AdWords experience
- Availability to be on-call during non-working hours for emergencies; Occasional evening hours may be required to support special events;

Note: These are typical duties, others may be assigned as needed;

Contact: Kelly Gaskell at kgaskell@usf.edu
Kaligia Biosciences – Software Development Engineer

Job Type Regular

Job Time Full-Time

Functional Area Java Development

Required Education Master’s Degree in Computer Science

Location FL – Largo

Required Travel 5%

Job Description

Kaligia Biosciences – Software Development Engineer – Largo, FL

Kaligia Biosciences is a fast-paced biotech company located in the Tampa Bay region. With an elaborate industry network and extensive resources, our mission is to enhance our users’ every day experiences by facilitating medical convenience. Sourcing from our innovative core technology, we are invested in developing advanced point-of-care biosensors to transform health care delivery from reactive to proactive. Our revolutionary non-invasive and minimally-invasive solutions have the potential to establish themselves as market leaders by delivering faster and more accurate results for partnering hospitals and nursing homes.

We have an exciting opportunity for highly motivated individuals with unique qualities to join our team. Where ability to be extremely focused with a sense of urgency to complete the task at hand is essential, possessing cognitive ability with excellent problem solving and communication skills is a must. We are looking for passionate individuals who enjoy functioning in a dynamic vision-oriented team to escalate on a rewarding career towards innovative leadership.

Responsibilities:

- Responsible and lead project from start to finish
- Design and construct data acquisition and analytical software for machine learning
- Program the system to perform automated data acquisition, analysis and visualization
- Design user friendly, intuitive and robust user interface
- Collaborate with other team members

**Highly Desired Skills:**

- Extensive programming experience
  - Experience in Java, HTML, SQL and Javascript
  - Experience in the Spring Framework
  - Experience in acquiring data from various hardware
  - Experience on GUI programming is a plus
- Extensive experience with object-oriented programming
- Proficient understanding of code versioning tools, such as Git
- Experience with both external and embedded databases
- Understanding fundamental design principles behind a scalable application
- Excellent oral and written communication skills
We are a startup company created in Sausalito San Francisco, looking for an iOS developer at the University of South Florida. We have recently moved down here in Tampa because of our affiliation with a Venture Capitalist that we are working with, and we were advised to see the capabilities of the students at U.S.F. We will compensate you for your time in cash, in a private contract that has a duration of 10 hours/Week. The compensation amount will be discussed in private once we interview you and view your credibility.

Required Qualifications
- Swift 3.
- Firebase iOS.
- Auto Layout.
- Understanding of REST api and JSON.
- Understanding of cocoa pods api and frameworks.

You will be working with an experienced lead developer on the project who will guide you on the project details. Considering the project, the main specifics will require you to follow up the lead engineer instructions on what needs to be done.

The Interview will consist of the following.
- Testing your capabilities for the following requirements earlier described in this file.
- Signature of a NDA (Non Disclosure Agreement)
- Project details and what you would be responsible for.
- Compensation Details
  - If you charge a specific amount or hourly please let us know at the interview. We can negotiate details from there, we are primarily looking for capabilities so the more capable you are with the requirements listed than the better your compensation and pay will be.
- Contract details

If you are interested please contact me via email at jaffersyed@novamedicaltechnologies.com with subject details saying: “Student Interest: USF”.

Jaffer Syed.
Bioinformatics Analyst Position

Responsibilities:
We are looking for an extraordinary and highly motivated bioinformatician to play a key role in our operational team. The successful candidate will be responsible for the execution and development of methods, analysis, pipelines, and algorithms for next-generation sequencing data, genotyping and diagnostics applications. The ideal candidate will have a good understanding of bioinformatics as well as knowledge of genomics.

The successful candidate will:
- Provide bioinformatics support for commercial genotyping by sequencing projects related to population genetics and breeding applications;
- Coordinate data quality assurance liaising regularly with the head of the bioinformatics and operational departments to ensure correct data outputs are generated for commercial projects;
- Independently utilize scripting language(s) and apply standard bioinformatics tools and pipelines for the analysis of sequence datasets resulting from genomics and transcriptomics projects;
- Create quality control metrics and summary reports for the results obtained;
- Work in a high-performance cluster computing environment;
- Interact with a team of computer scientists, senior bioinformaticians and molecular biologists to interpret results and design follow up experiments.

Requirements:
(i) B.S. or Masters degree in computational biology, computer science, molecular biology, statistics or related field. (ii) A track record of reliability, productivity and team-based success through previous work experience. (iii) Proficiency in Linux/Unix work environment. (iv) Demonstrated experience analyzing next generation sequencing data. (v) Previous experience with genotyping by sequencing, variant calling and primer design is highly desirable. (vi) Strong communication and troubleshooting skills.

To apply or obtain more information, please send a cover letter detailing experience, a resume, and at least two references to: lab@rapid-genomics.com. Competitive salary commensurate with qualifications and experience. Job location: Gainesville, FL.

About Us:
RAPiD Genomics is a Gainesville-based company focused on delivering innovative genomic applications to the life sciences and agribusiness world. We offer the opportunity to work in a growing, dynamic field utilizing cutting-edge genomic and data science methodologies.
Looking for a Tutor!

If you are looking for a little extra money with a minimal investment in time, this may be perfect for you. My name is Christine Gilsinger and I am looking for a computer science tutor for my son, Luke. Luke is very young (9 y/o), but has an intense interest in computers and is quite advanced for his age. He would like to work towards a CompTIA certification. We are looking for someone to meet for an hour a week on campus. $40 per session. If you are interested, please contact me at Christine.gilsinger@gmail.com