Dear CSE Students:

Welcome to the third newsletter of the Summer 2015 semester.

**Undergraduate Program (CS and CpE):** Did you know we have a department web site? [http://www.cse.usf.edu](http://www.cse.usf.edu/) There, you will find all kinds of useful information: flow charts for your degree, a listing of elective courses, forms for graduation checklist, internship, independent study, petition, etc. Have you looked at our web site and the information available? It is there to help you plan your program, and answer a lot of questions.

**Undergraduate Program (IT):** If you are a senior and plan to graduate this coming fall semester, make sure you are proactively researching and finalizing your senior project concept. All students currently accepted in the IT program will receive a Canvas invite to participate in the course “IT Colloquia-Seminar Tracker”. Please acknowledge the invitation, and review the requirements on the home page for the colloquia. Students are required to manage their participation using this online tracker.

**Graduate Program:** Upcoming important deadlines: Admission to Candidacy - July 24; Application for Graduation for Fall - July 31; Sign-up for Fall Qualifiers - August 28. Please see the CSE Graduate Calendar for other deadlines.

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

- Computer Science Teacher position
- Hungry Salamaders – Software developer with game development interest – on-campus job
- CTI Systems Administrator position
- Tampa Bay Water Application Development Internship
- MOSI Information Systems Manager
- MOSI Information Systems Specialist

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](http://www.cse.usf.edu/newsletter)
Computer Science Teacher

Start Date: August 10, 2015

Shorecrest is seeking an accomplished and innovative Computer Science Teacher. The ideal candidate will be comfortable teaching a wide range of Computer Science courses which may include, but not be limited to, an introductory Computer Science/Engineering course, Intro to Programming, Web Programming (JavaScript, PHP, MySQL, HTML), Programming Cellphones (Android or J2ME) and AP Computer Science. Experience with VEX robotics and 1:1 iPad programs is preferred.

EDUCATION, EXPERIENCE & QUALIFICATIONS:

- At least 3 years experience teaching high school computer science courses is preferred, but open to candidates with requisite skills, knowledge and ability to connect with students.
- Bachelor’s degree required, Master’s degree preferred
- Collaborative and engaged member of the faculty who is committed to students and to teacher growth.
- Enthusiasm for embracing the independent school model of mentoring, advising and supporting students outside of the classroom.

Founded in 1923, Shorecrest is one of the oldest independent schools in Florida serving approximately 950 students from PK to Grade 12. Last year, 70% of its graduates matriculated to universities outside the state of Florida. Its curriculum is challenging and offers students multiple opportunities for advanced study through its extensive AP program, advanced elective offerings, and an Independent Study option. St. Petersburg is a vibrant and growing city, named as one of the world’s most attractive small cities for art. It has a lively downtown, abuzz with outdoor concerts and markets, and it is within minutes of some of the most beautiful beaches in the country.

Interested candidates should send cover letter and resume to Anna Baralt, Director of Educational Technology at abaralt@shorecrest.org.
Position
Software developer with game development interest and talent to code an interactive biomechanics simulation/game based on ballistic tongue projection in salamanders.

Project Overview
The "Hungry Salamanders" project is envisioned as a physics and physiology-based simulation of salamander tongue projection that will be coded in Unity (or some other game engine) with a graphical game interface for open-source deployment on the web or as an app for handheld devices (iOS or Android).

Project Goals
• Demonstrate salamander tongue projection as an example of a spectacularly athletic movement that is powered by springs (not just muscles).
• Teach the user about muscle physiology and biomechanics with an engaging gamified simulation.
• Provide an environment in which the user can “build a salamander” and explore the diversity of salamander feeding mechanisms and their effects on performance (i.e., catching evasive prey or working in cold environments).

Job Details
• 10 hours per week for one semester (e.g., Fall 2015).
• $12 per hour.
• Possibility of 3 credit hours of CIS 4915 Supervised Research in Computer Science.

Contact
Dr. Stephen M. Deban, Integrative Biology, USF.
Letters of interest can be sent by email to sdeban@usf.edu.
JOB DESCRIPTION – Systems Administrator

POSITION

The position of Systems Administrator for The Center for Transformation and Innovation generally involves managing and supporting the information and technology assets of CTI to include online IT infrastructure, Mac/Windows software, computers, and general electronics for the company. In particular it involves working with digital information such as online databases, content management systems, and Internet resources. The information officer provides technical support, mainly for Mac computers.

This is a full time position in information technology management to help support, develop and improve the current infrastructure of company operations and support business needs. As the information officer it’s important to have knowledge of IT Support skills and how to handle networks, servers, etc., but generally we utilize many online/software as a service solutions to support our IT needs.

OUR COMPANY

Our mission is to transform healthcare through leadership, strategy, and innovation. Our goal is to help our client-partners overcome their challenges using an engaging and collaborative process.

We believe in “doing different things, and doing them differently”. We value an entrepreneurial culture and encourage our team to continually innovate in our practice and in what we deliver to our client-partners. We continuously scan the world for the latest best-practices and share them with our client-partners when appropriate. We adapt best practices from other industries, frameworks that we know work, and apply them to our client-partner’s specific situation, giving them the most appropriate and cost-effective results possible.

DUTIES

Requirements:

- General knowledge and experience in:
Servers

Networks:
- Experience/setting up (infrequent but necessary skill):
  - routers
  - switches
  - Firewalls
- VPN setup
- Network security implementation

Basic IT Support Skills:
- Fix Mac and PC issues
- Implement security measures to protect company information. Recommend best practices for protection.
- Respond to general employee IT issues.

Work with colleagues to find, deploy, and upkeep new computer/web software to meet company needs (i.e. recent deployed a company Salesforce org.)

Hardware setup/repair ability to include:
- Computers
- Smart Phones
- Printers, scanners, routers, etc.

Knowledge management capabilities for different internet tools and software (i.e. Microsoft SharePoint/365/Desktop Suite)

Knowledge of/experience with web design, organization, and management:
- Basic knowledge of HTML and some website design concepts.
- Website backend management experience (cpanel/wordpress). Example:
  - Installing latest WordPress for non-managed wordpress sites
  - Website setup, file transferring, record management, etc.
  - Managing zone files (A records, MX records, etc.)
  - Setting up sites with SSL certificates
- Best practices and trends for websites

Ability to confer, advice, and assist in:
- Building or designing company websites (almost always using wordpress).
- QA for company websites (i.e. our new site eLi).
- Document changes and fixes.
- Perform website backups.

Accountability for physical technology assets (i.e. computers, printers, etc.).
Development of new company websites involving working with developers.
DESIRED SKILLS/EXPERIENCE

- Degree in Information Technology
- Experience with the following web services:
  - Salesforce
  - Wordpress
  - Quickbooks
  - Wufoo
- Familiarity with wireframes
- Experience as a system administrator, information officer, network technician, network administrator, etc. (minimum 4 years experience)
- Experience with server setup and maintenance (i.e. QuickBooks)
- Database maintenance/issue troubleshooting
- Mac hardware / Software
- Windows software

If interested, submit your resume to Rana Kasti at rkasti@ctileadership.com.
Application Development Internship

**Job Description:** The Tampa Bay Water (TBW) Application Development Intern position will focus on the implementation, integration, repair and preventative maintenance of custom and COTS applications at the agency. This role will include troubleshooting software failures and identify integration problems as related to TBW core applications. The position will also be required to assist TBW staff with application level support and complete other duties as assigned by supervisor.

**Responsibilities:**

- **Development**
  - Assist in the support and fixing of applications and system integrations.
  - Receive, log, and resolve staff support calls and tickets for agency applications.
  - Database administration tasks.

- **Research**
  - Investigate new systems to replace existing ones as needed.

- **Documentation**
  - Review and understand custom developed applications to add to documentation.
  - Document all work done for support and fixes of applications and integrations.

**Requirements:**

- Currently working toward an undergraduate degree within Computer Science, Informatics, or Software Engineering fields at an accredited university or college (must be enrolled in a minimum of 6 credit hours).
- Experience or course work with T-SQL and .NET technologies.
- Strong quantitative and analytical capabilities.
- Must be eligible to work in the USA.
- Must be able to lift 65 pounds.
- Must have transportation on a day-to-day basis for travel to local sites.
- Strong work ethic/self-sufficient.
- Report to work in a timely manner.

**Wage:** $12.00 / Hour

**Status:** This position is considered a part-time position with the possibility to span multiple semesters. To continue employment, the employee must maintain at least a part-time status in a state approved college and be in good standing within the organization.

Please email resumes to Nathan Sprunger (nsprunger@tampabaywater.org) by August 21st for consideration for the fall semester internship program.
MOSI is a non-profit, community-based institution and educational resource that is dedicated to advancing public interest, knowledge and understanding of science, industry and technology. MOSI’s core ideology is to make a difference in people’s lives by making science real for people of all ages and backgrounds.

**Position:** Information Systems Manager

**Responsibilities:**
- Provide therapy and tender loving care to various technology assets including desktop/laptop computers, servers, printers, copiers, scanners, and other miscellaneous network attached devices which have been abused by their human users.
- Keep a watchful eye on system performance and keep the bad guys from getting into our stuff or giving us the cooties while fixing the things we break.
- Have a cape ready at any time to jump in and save the day!
- Horde and save everything we can, for when the ok button is pressed after someone is asked “Are you REALLY sure you want to permanently delete this?”, and they realize they need it again.
- Take loving care of our network equipment, telling it daily that is has done a good job.
- Create and manage documentation on network infrastructure that non geeky people can understand.
- Provide calm and friendly support and training for staff with limited technical expertise.

**Qualifications:**
- Bachelor’s degree in computer science, information systems, or related field with two years’ experience in network planning, implementation, operation, and maintenance in a Microsoft environment. OR two year degree in related area, with at least five years of experience in network planning, implementation, operation, and maintenance in a Microsoft environment.
- Front line desktop support experience including interacting with users on a day to day basis and troubleshooting issues regarding all sorts of technologies.
- Experience with managing a Microsoft Active Directory domain including knowledge of Group Policies and WSUS.
- Experience with Microsoft Server 2008 and Microsoft SQL 2008 or newer version required.
- A thirst for knowledge in future technology and other geeky things.

**Compensation/Benefits:** The Information Systems Manager position is classified as a full-time exempt/salaried position with benefits. As a non-profit science center, we have found that our benefits package and incredibly fun/geeky culture often keep us competitive when compared to corporate compensation packages.

**How to Apply:** Please complete a MOSI Employment Application and send it to our Human Resources Department (hr@mosi.org) along with your cover letter and resume. The MOSI Employment Application can be found on our website: [http://www.mosi.org/contact-us/employment-opportunities.aspx](http://www.mosi.org/contact-us/employment-opportunities.aspx)
EMPLOYMENT OPPORTUNITIES

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Position: Information Systems Specialist

Responsibilities:
• Provide therapy and tender loving care to various technology assets including desktop/laptop computers, servers, printers, copiers, scanners, and other miscellaneous network attached devices which have been abused by their human users.
• Assist non-technology minded people with resolving day to day technology issues.
• Help to horde and save everything we can, for when the ok button is pressed after someone is asked “Are you REALLY sure you want to permanently delete this?”, and they realize they need it again.
• Take loving care of our network equipment, telling it daily that it has done a good job.
• Help to make sure new users can login and use their software, and help to make sure that when they leave, they can’t anymore.
• Tinker and test hardware and software to make sure it works right.
• Provide calm and friendly support and training for staff with limited technical expertise.

Qualifications:
• Bachelor’s degree in computer science, information systems preferred, or two year degree in related area, with at least two years of experience in network planning, implementation, operation, and maintenance in a Microsoft environment preferred.
• Front line desktop support experience including interacting with users on a day to day basis and troubleshooting issues regarding all sorts of technologies.
• Experience with a Microsoft Active Directory domain including knowledge of Group Policies and WSUS preferred.
• Previous experience with Microsoft Server 2008 and Microsoft SQL 2008 or newer version preferred.
• A thirst for knowledge in future technology and other geeky things.

Compensation/Benefits: The Information Systems Manager position is classified as a full-time exempt/salaried position with benefits. As a non-profit science center, we have found that our benefits package and incredibly fun/geeky culture often keep us competitive when compared to corporate compensation packages.

How to Apply: Please complete a MOSI Employment Application and send it to our Human Resources Department (hr@mosi.org) along with your cover letter and resume. The MOSI Employment Application can be found on our website: http://www.mosi.org/contact-us/employment-opportunities.aspx

MOSI is a Drug Free Workplace | Participates in E-Verify | is an Equal Opportunity Employer