CSE Student Newsletter

September 6, 2018 – Volume 9, Issue 12

Department of Computer Science and Engineering
University of South Florida
Tampa, Florida

http://www.cse.usf.edu

Dear CSE Students:

Welcome to the second newsletter of the Fall 2018 semester.

Message from the UG Advisor: I hope your fall term in proceeding well. Please be aware of the following important dates for the term. For those of you planning to graduate in spring 2019, make sure you submit your graduation checklist before the October 26th deadline. The last day to withdraw is Saturday, October 27th. Spring registration will begin on Monday, October 29th. Registration appointment times will be posted in mid-to-late October. Register as soon as your registration appointment allows. Do not wait for the end of the term to register. It is a good idea to come in for advising before registrations starts. Hopefully, you already have a plan posted in DegreeWorks. You can view advising availability on the CSE website and appointments can be arranged through eScheduler. https://www.usf.edu/engineering/cse/undergraduate/contacts.aspx

Message from the Grad Program Assistant: If you were appointed as a TA or RA and have not submitted a Tuition Waiver, please make sure you submit it as soon as possible. Deadline to pay your fees after the tuition waiver has been applied is October 5. Please make sure you submit your Graduation Checklist and Plan of Work if you will be graduating this semester. See me in ENB 342D if you need help filling these forms out.

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

- Department of Computer Science and Engineering Webmaster Position
- Brain-Drone Racing at USF
- Virtual Brain-Controlled Drone (E-Sport)
- NeuroSnap: Facial Filters with Brain Waves
- CARRT Research Assistant Position Open
- Career Services to CSE Students: Resumes, Interviews, and ePortfolios
- WebstaurantStore Entry Level Software Engineers Open Positions
- USF World Part Time Junior Developer Opportunity
- Mobile App Design Workshop Series (iPhone or Android)
- Secure Funding Strategies Website Manager Position
- Axiros Part Time Paid Work Project
- Sofwerx Remote Data Science Intern Volunteer Position
- Student Cyber Challenge September 19, 2018
- MindSumo and Wells Fargo Campus Analytics Challenge
- NASA Florida Space Grant Consortium
- CBM 2019 6th International Conference on Computational Biomedicine
- National Student Directory with Pathways to Science
- Tech USA Software Developers and QA Analytics Full Time Positions
- Help Shape the Future of Navair

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Department of Computer Science and Engineering
Webmaster Position

Job Summary
This is a part-time (10-20 hours/week) position, which pays $12/hour. The webmaster reports to the Academic Services Administrator, but works closely with the Department leadership, academic advisors, program specialists, and faculty. The webmaster is in charge of managing the Department’s website using OU Campus, as well as ensuring that all content is valid prior to submitting for approval to the College’s Communications and Marketing Officer. The webmaster performs some information seeking/interview tasks, as well as composes drafts for stories to be broadcast and creates event fliers. The webmaster is expected to respond to communication and requests quickly.

Responsibilities
Tasks may include:
- Understanding the OU Campus system
- Writing and publishing stories for news archive
- Interacting with Department leadership, staff, and faculty
- Creating and uploading the monthly student newsletter
- Managing the content/links on the website i.e. defenses/dissertations, etc.
- Utilizing MS Office products for communications
- Utilizing Adobe products for marketing i.e. flyers, brochures, posters, etc.

Requirements
- Open to all majors in good academic standing
- Experience with content management systems
- Demonstrate excellent communication and organizational skills
- Have an understanding of MS Office and Adobe products

To Apply
- Submit cover letter and resume to Laura Owczarek (lsmurr@usf.edu)
- Detail relevant experience related to this position
Brain-Drone Racing is a universal sport that allows people with disabilities (people in a wheelchair, upper or lower limb differences, etc.) to compete in the same race with someone who is considered healthy because the brain is only needed. Also, this sport integrates virtual reality, drones, and neuro technologies.

The next race event at University of South Florida will be hosted on February 9th, 2019. Check our social media for further updates.

UNIQUE VISITORS -> 22,115,137

NEURO-MACHINE INTERACTION LAB
Director: Dr. Marvin Andujar
E-mail: neuro.machineinteraction@gmail.com
Web: www.neurosymbiosis.com
Instagram: neuro.machineinteraction
Twitter: @Nmil_Usf
Synopsis

A virtual drone in a simulation that can be controlled using brain-computer interface (BCI) devices. Users are capable of flying the virtual drone using their imaginary movement.

To control the simulated drone, the person needs to imagine a movement. Imagining a movement generates the same electrical signals as physically acting. BCI devices are used to capture such signals and send to the simulated drone for control. During training the user is asked to imagine a specific movement that will be associated with a drone command, later he will be able to control the drone by re-imagining that same movement.

NEURO-MACHINE INTERACTION LAB
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Twitter: @Nmil_Usf
NeuroSnap: Facial Filters with Brain Waves

Synopsis

NeuroSnap allows users to express their affective state through facial filters. It is the brain version of Snapchat. It measures electroencephalographic (EEG) signals from the user’s scalp. It decodes the EEG waves using proprietary algorithms from Emotiv and displays a particular filter representing the affective state based on the EEG waves: alpha (relaxed) and beta (alerted or focused). The user can see the filters on the computer once the camera has detected the user’s face using real-time facial detection.
Research Assistant Position Open

CARRT is looking for a senior undergraduate or a graduate student who can work on the Virtual Reality for Vocational Rehabilitation (VR4VR) project. The student will be working on the development and programming of virtual reality modules for the project, and will be recruiting and testing subjects with cognitive disabilities (Autism, TBI, etc.) on the modules that are already developed. The student will need to commit to work on this project a minimum of 20 hours a week for one year. A generous stipend will be provided based on the applicant’s credentials. Tuition waiver will be provided if the applicant is a graduate student. The qualifications needed for this position are as follows:

**Technical Qualifications:**
- Experienced with Unity game engine and C#
- Experienced with virtual reality applications and development
- Experienced with mobile application development (Android and iOS)
- Strong 3D math skills (linear algebra, vector math)
- Knowledge of database tools such as mySQL
- Familiarity with Maya, 3D Max and likewise modeling and animation tools

**Personal Characteristics:**
- Good analytical and problem solving skills
- Quick learning
- Ability to adapt to changing processes
- Well organized
- Friendly and patient character to work with persons with cognitive disabilities
- Can work with and collaborate with others
- Can pay attention to details

If you feel that you are qualified for the position, please email your resume to: Dr. Redwan Alqasemi: alqasemi@usf.edu
Career Services to CSE Students: Resumes, Interviews, and ePortfolios

As part of the continuing effort to provide quality career-related software to students at the University of South Florida, Career Services is moving away from the OptimalResume system in favor of other tools and services that are more easily accessible, provide better feedback to our students, and allow for continued access after graduation.

Access to OptimalResume will end on July 24, 2018. Students should take this opportunity to remove any documents that may be stored on OptimalResume’s website. We will be reaching out to all students by email to let them know about this deadline to remove documents. OptimalResume provided several different services for students such as resume creation and storage, and interview preparation. We have seen the number of new student accounts and existing account logins decrease dramatically over the years leading us to the decision to discontinue paying for this service.

Below, we’ve created a list of tools that are free for students.

RESUME
We recommend that students use resources available on our website to help them create their resumes from scratch, and then use the Handshake system to store their resumes. Handshake is the online career management tool and preferred job and internship platform at the University of South Florida. Students can upload their resume to their profile, use it to build their profile information, and make it visible to recruiting employers. All students have a Handshake account already created for them, which they can access through the MyUSF system. Students log on to MyUSF, hover over the My Resources tab, and click the “Find A Job (Handshake)” link. If they have any issues accessing their account, they can contact our office for assistance.

INTERVIEW
We recommend using Big Interview, a tool that helps students refine their interviewing skills with an interactive tool that dives into general, behavioral, and technical questions from over 140 industries. Students can record, play back, and re-record their responses to questions to see how they improve with time and they get access to an expert who can coach them through their responses.

ePORTFOLIO
There are a variety of ePortfolio tools that are available at no cost to students. If you are considering the use of an ePortfolio, please contact our office for assistance in selecting the best tool for your learning objectives.

We hope that you can make use of some of the tools that we have mentioned above for your students, and we welcome any feedback that you might have. If you have any questions, comments, or suggestions, please contact Jean Keelan, Director of Career Planning.

Career Services
University of South Florida
(813) 974-2171
CareerServices@usf.edu
Are you looking for the feel of a start-up, but the solid foundation of a well-established company?

Do you want to work on a variety of challenging projects using cutting-edge technologies?

Do you want to be an integral part of a core development team located right here in Tampa?

WE WANT TO MEET YOU!

See the Full Job Listing & Apply Online Today!

WebstaurantStore.com/Careers/
Junior Developer Opportunity

- Are you a fast learner who likes to solve problems and work on full stack development?
- Do you have strong **javascript**, **html**, and **css** knowledge?
- Do you have experience working with **riotjs** and **firebase** hosting?

USF World is looking for a junior developer to help improve the USF Global Discovery Hub! If you are interested, please apply online at the USF Careers website, **Job ID 17856**. The hourly salary is $15.50 up to twenty hours per week. Work flexible hours; work remotely; have regular mentoring and weekly team meetings.

***Qualified applicants will be asked to demonstrate their skills by creating a unique, real time, riotjs firebase application that reflects their creativity and ability to problem-solve.***

Questions may be directed to kcaruson@usf.edu or lkhthomas@usf.edu

Check out the USF Global Discovery Hub at www.usf.edu/gdh
Mobile App Design Workshop Series (iPhone or Android)

CodePath is offering a 12-week mobile app design workshop series for Freshmen and Sophomore university students via a remote classroom. This hands-on course will introduce you to iOS or Android app design and development and will be integrated with industry mentors from companies like Slack, Pinterest, and Facebook. Students will meet on Saturdays to complete either a coding lab and/or participate in group activities such as product brainstorming, wireframing, and more. We will also feature a number of guest speakers to provide insights from industry, including topics like how to prepare for your first internship.

This course assumes you know the basics of a programming language (e.g. for loops, if statements). This is designed to be a lightweight exploratory course which combines product development, coding, and design. As part of the admissions process, we will guide you to build a simple iOS or Android app. In the future, we will offer students that complete this program access to additional advanced courses for students interested in taking their practical development skills to the next level.

Program Structure
• Meets once a week on Saturdays for 2 hours in remote classroom sessions
• Weekly exercises to complete in class with optional take-home work
• Sessions begin on October 6th and runs for 12 weeks

Topics covered
Topics introduced are focused on workshops that will provide students the basics they need to design and build a technical mobile app from the ground up including:
• Core coding concepts used to build simple iOS or Android apps
• Product planning activities such as brainstorming, schema design, user stories
• Using version control (Git and Github) to store and collaborate on code

The course will also include a preview of real-world software engineering roles and challenges including:
• Fireside Q&A chats and info sessions with professional engineers
• Industry mentors helping with mock interviews
• Learn what it’s like in the day-to-day of different software engineering roles
• What are the common challenges you will face in your first full-time software internship

What are the requirements?
• Must currently be attending a US university in a CS or related field
• Must have familiarity with at least one programming language
• Can dedicate 2+ hours a week
• (iOS only) Mac computer for lab sessions is required

Applications are now open for sophomores and freshmen and close Sept 15th, 2018.
Secure Funding Strategies Website Manager Position

Mail to:
Fred Schwartz
3530 Fiddlers Green Loop
Wesley Chapel, FL 33544

Company – Secure Funding Strategies
Location – Wesley Chapel
Hours – Flexible
Rate of Pay – Base plus bonus – Depending on experience and commitment

Description of Job/Title (Website Manager) – To assist and help manage the day to day workings of the website and generate traffic so we can fill our pipeline. We lend money to all different types of business’ and industries. SEO understanding a must as well as experience with Google and Facebook SEO. The goal is maximize effort to drive traffic to our site so we can assist the customer in securing the funds he/she needs to operate their business. The measurement of success will be getting the phone to ring or receiving of e-mails so we can start the loan origination process.

Contact Person –
Fred Schwartz
610-633-0202
Axiros Part Time Paid Work Project

Knowledge of IoT is the main qualifier
People with IoT knowledge usually build IoT projects as a hobby or for school projects with development project kits called raspberry pi, or arduino.

It is likely to be a project that requires 4 hours per week for 4 weeks $20/hr from our office (we are by the Tampa Airport) – Any day/time between 9am and 4pm mon to Thursday.

Looking for:
- A student who is familiar with IoT (protocols, protocol roles, industry trends, industry players)
- From the college of engineering
- Comfortable using Microsoft power point

We have a few admin guides, we need to put together power points using the information from those admin guides.

No experience required with graphic design, we have a person for that.
What we need is a person capable of understanding IoT acronyms, lingo, and capabilities (from a high level – theoretical – the big picture)

Respond with resume with these skills to: Henry J. Ortiz, Esq.
Email: Henry.Ortiz@Axiros.com
Managing Consultant, Internet Of Things Solutions
Axiros North America, Inc.
Axiros.com | A Gartner Top 10 IoT Technology company
Mobile: +1-813-419-9440
Remote Data Science Intern

SOFWERX was established under a Partnership Intermediary Agreement (PIA) between the United States Special Operations Command (USSOCOM) and the Doolittle Institute (DI) DBA DEFENSEWERX (DWX). SOFWERX is a platform designed and operated to increase collaboration and innovation, as well as explore, experiment and assess promising technology for USSOCOM. Its growing eco-system includes both traditional and non-traditional problem solvers with a focus on new, novel and provocative capabilities.

Requirements:
- Able to work 15-20 hours a week
- Quick Learner
- Willing to learn software like Github and Docker
- Works well on remote teams while demonstrating independence
- Passion for Data Science, Machine Learning, Natural Language Processing, and Computer Vision
- Past projects in Threat Detection, Virtual Assistant, Chatbot, Cyber Security, Geospatial

Qualifications:
- Requirements:
- Will need to attend remote weekly hour Friday meeting
- Will need to submit a resume
- Code examples via Github link
- Background check
- 9/1/2018 to 12/15/2018
- Located in the United States

Note:
This is a volunteer/unpaid internship

Apply by sending your resume to: swx.intern.volunteer@sofwerx.org by 24 August 2018
STUDENT CYBER CHALLENGE

Global Aviation is under attack. What do you do?

1. Digital Forensics
2. Web Exploitation
3. Binary Exploitation

The global aviation network is under attack. Aircraft messaging, ticketing systems, flight information displays, and more, have all been comprised. It is up to your team to research, investigate, and produce the flag—the mitigation solution.

Mentors from the aviation industry will be on site and may provide hints . . . for a cost . . .

Five challenge categories will be offered:

1. Digital Forensics
2. Web Exploitation
3. Binary Exploitation
4. Networking
5. Cryptography

Educators from Embry-Riddle Aeronautical University will facilitate the exercise. Cyber analysts from leading aviation companies will be on-site to serve as mentors. A Symantec representative will also serve as a mentor.

Team Prizes (prizes to be awarded September 20)

1st: $2,100    2nd: $1,500    3rd: $900

Challenge Host

The Student Cyber Challenge will be held in conjunction with the Aviation ISAC Annual Summit.

The Aviation ISAC is the global aviation cyber threat sharing membership association. Aviation companies around the world join the A-ISAC to collaborate and share threats against the global aviation infrastructure.

To register, email: phart@a-isac.com

September 19, 2018 ~ Gaylord Palms, Orlando

Format

Educators from Embry-Riddle Aeronautical University will facilitate the exercise. Cyber analysts from leading aviation companies will be on-site to serve as mentors. A Symantec representative will also serve as a mentor.

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1st: $2,100    2nd: $1,500    3rd: $900

Additional prizes provided by Symantec.
MindSumo and Wells Fargo Campus Analytics Challenge

Registrations for the **Wells Fargo 2018 Campus Analytics Challenge** are now open!


The Wells Fargo challenge will be launching in less than two weeks. Registrants will be notified when the challenge is live. Please note that the data set will be released the day the challenge goes live.

Feel free to reach out to me ([ishamindsumo.com](mailto:ishamindsumo.com)) if you have any questions.
The NASA Florida Space Grant Consortium is pleased to announce its 2018 - 2019 student hardware collaborative projects listed below.

1. **Hybrid Rocket Competition**

   The objective of the competition is to build and launch a hybrid powered rocket. There are two categories of competition to choose from. The first category consists of launching a hybrid rocket to the maximum altitude. The second category challenges the teams to fly their rocket closest to 2,000 feet in altitude.


2. **Florida University Satellite (FUNSAT) Design Competition**

   Design of a pico-satellite with a maximum mass of 1.33 Kg and the size of 10 x 10 x 10 cm³ (i.e. 1U). Open to undergraduate and graduate students enrolled in a FSGC affiliated university.

   [https://floridaspacegrant.org/programs/funsat-design-competition/](https://floridaspacegrant.org/programs/funsat-design-competition/)

3. **Senior Design Projects and NASA Competitions**

   FSGC will be supporting senior design projects (up to $750 for each project), NASA Competition participation (up to $2000) and other competitions for the 2018-19 Academic Year. Priority will be given to NASA competitions.

   [https://floridaspacegrant.org/programs/senior-design-projects/](https://floridaspacegrant.org/programs/senior-design-projects/)

All these programs can also be accessed from the main FSGC web page

[http://www.floridaspacegrant.org](http://www.floridaspacegrant.org)

For any inquiries about the programs, please email [jaydeep.mukherjee@ucf.edu](mailto:jaydeep.mukherjee@ucf.edu)
CBM 2019
6th International Conference On Computational Biomedicine
February 7th and 8th
8:00 AM - 4:30 PM
J. Wayne Reitz Union

Organizers:
Dr. Panos M. Pardalos
Dr. George Michailidis

http://caopt.com/CBM2019/
Informatics Institute
University of Florida
The 6th International Conference on Computational Biomedicine

A primary goal of the CBM 2019 is to bring together scientists, engineers, mathematicians and patricians from a variety of related disciplines, to exchange ideas and present original research results in the theory and applications of computational biomedicine. It is hoped that most countries will have a delegation to participate this event. The conference will be composed of featured symposia, plenary lectures, invited sessions, and contributed sessions.

For more information, please visit http://caopt.com/CBM2019/.

February 7th and 8th
8:00 AM – 4:30 PM
J. Wayne Reitz Union
University of Florida, Gainesville, Florida

We hope to see you there!
National Student Directory with Pathways to Science

Students can sign up online to be added to the directory and notified of programs and funding opportunities (NSF, NASA, etc.) relevant to their disciplinary interests and level of study. Directory members receive 4-6 emails per year notifying them of relevant opportunities.

We encourage STEM students to join and many summer research programs find it valuable to forward our sign-up form to their students.

http://www.pathwaystoscience.org/form.aspx
Attention Computer Science Graduates

Are you a recent grad looking for a career with a local Software Development company that has an amazing culture and unlimited opportunity for growth in Tampa? Tech USA is currently seeking several Software Developers and QA Analysts for direct-hire positions with competitive pay and benefits. No formal work experience is required to come be a part of this dynamic and diverse team of people with a passion for development. Our client is a multimillion-dollar leader in their industry known for innovation and changing the status quo.

Don’t miss this great opportunity and apply today!

**JOB DESCRIPTIONS & REQUIREMENTS**

- Designs, modifies, develops, writes and implements software programming applications
- Supports and/or installs software applications
- Diagnoses issues in software applications and environments
- Participates in the testing process through test review and analysis, test witnessing and certification of software
- Interacts with colleagues and/or partners through a variety of mediums to provide support and understand needs
- Develop various tools and customizations within the core product and to increase day-to-day efficiency
- Maintain infrastructure to ensure smooth operations

**QUALIFICATIONS**

- Bachelor’s in Computer Science or related field preferred
- Strong desire to learn and grow within a team environment
- Software/Web development experience utilizing object-oriented languages
- Understanding of a Scrum or Agile environment
- Knowledge of Software Development Life Cycle
- Experience with ASP.Net, SQL Server a Plus
- Experience with JavaScript, HTML, CSS a Plus
- Experience with Hardware/Networks/Servers a Plus

For more detailed information or to schedule an interview, please send your resume to Andrew Mastrone at amastrone@techusa.net with the subject “Dev/QA”. 
HELP SHAPE THE FUTURE OF NAVAIR

WE ARE LOOKING FOR TALENTED PROFESSIONALS TO BE PART OF OUR ELITE TEAM!

The Naval Air Systems Command (NAVAIR) is the Aviation Branch of the US Department of the Navy. We employ more than 35,000 federal employees in order to provide full life-cycle support of naval aircraft, weapons, and systems operated by the US Navy and US Marine Corps. This support includes research, design, development & systems engineering, acquisition, test & evaluation, training facilities & equipment, repair & modification, and in-service engineering & logistics support.

NAVAIR is organized into eight competencies: 1) program management, 2) contracts, 3) research & engineering, 4) test & evaluation, 5) logistics & industrial operations, 6) corporate operations, 7) comptroller, and 8) counsel.

NAVAIR’s primary locations consist of: Jacksonville (Florida), Patuxent River (Maryland), Lakehurst (New Jersey), Orlando (Florida), San Diego (California), China Lake (California), Point Mugu (California), Cherry Point (North Carolina), and Atsugi (Japan).

Applying for federal employment can seem overwhelming, especially if you’ve only applied for jobs in the private sector. Don’t let that deter you from taking the first step towards a fulfilling, challenging, and important career with the NAVAIR.

NAVAIR utilizes DIRECT HIRE AUTHORITY, in an effort to maximize expedient appointment to the various career fields. Applicants are able to directly submit their resumes for consideration. Please submit your resume (include GPA, grad date if applicable), transcripts (if applicable), and any other documents for consideration (DD-214, VA, SF-50, etc.) to the following respective emails for consideration:

*include on all emails: Scott.Gemmill@navy.mil
1) For Jacksonville (FL) FRCSE_HRO@navy.mil
2) For San Diego (CA) FRCSW_HR_STAFF_RECRU@navy.mil
3) For Cherry Point (NC) CHPZ_FRCE_JOB_FAIRS@navy.mil
4) For Patuxent River/Lakehurst NAWCAD_CAREERS@navy.mil
5) For Orlando ORLO_NAWCTSD_CAREERS@navy.mil
6) For all other locations Scott.Gemmill@navy.mil

Please visit OPM for general position descriptions:

For Federal resume assistance, please use these websites:

**OUR POSITIONS OF NEED:**

Engineers (*level of need*):
- *****Electrical Engineers
- *****Aerospace Engineers
- *****Quality Engineers (Senior Level)
- *****Computer Engineers
- *****Industrial Engineers
- ****Mechanical Engineers
- ***Metallurgical Engineers
- ***Materials Engineers
- ***Metrology Engineers
- ***Quality Engineers (Entry Level)
- **Electronics Engineers
- **Systems Engineers
- **Manufacturing Engineers
- *Chemical Engineers
- *Process Engineers
- *Environmental Engineers
- *Photonics Engineers
- *Civil Engineers

Computer/IT (*amount of need)*:
- *****Computer Programmers
- ****Computer Science
- ***IT Specialist SYSADMIN
- ***CYBER Security
- **Information Science/Systems
- **Management Information Systems
- *Network Administration
- *Customer Support

Aviation Maintenance (*amount of need)*:
- *****Sheet Metal Mechanics
- *****Aircraft Painters
- *****Aircraft Mechanics
- ****Quality Assurance (Senior Level)
- ****Aircraft Workers
- ****Metals Inspectors
- **Production Controllers
- ***Maintenance Control
- ***Tools Attendant
- ***Aircraft Electrical Workers
- ***Electronics Integrated Sys Mechanics
- ***Aircraft Engine Mechanic
- ***Machine Tool Operators
***Pneudraulic Systems
**Aircraft Examiners
**Aircraft Planners & Estimators
**Welders
**Quality Assurance (Entry/Mid-Level)
**Electroplaters
*OSHA/Safety

Business/Admin/Finance/Public Affairs (*amount of need):
***Administrative
***Secretarial/Clerical
***Business
***Contracts
**Operations Research
*International Business/Relations
*Finance
*Accounting
*Marketing/Public Relations
*Translators
*Human Resources
*Digital Design/Audio Visual
*Travel/Budget
*Training/Curriculum/Instructional Design

Other STEM (*amount of need):
**Psychology
**Behavioral Science
**Aviation Human Factors
**Mathematics
**Physics
**Unmanned Aviation
*Chemistry
*Environmental Protection Science

Logistics/Supply Chain/Analytics (*amount of need):
*****Data Analytics
****Supply Chain Management
***Business Analytics
**Statistics
*Political Science
*Economics
*Transportation

Security/Facilities (*amount of need):
*****Security Guards
****Facilities/Building maintenance
*Civil Engineers