GLOBAL SCIENCE & TECHNOLOGY, INC.

Science and Technology Internship Opportunity

Do you have a passion for using science and technology to improve the safety of people across the globe? We are a team of software engineers and scientists who build cutting-edge software products to aid meteorological offices across the world in predicting, observing, and reporting critical weather events that have the potential to impact life and property.

The Challenge
Lightning is one of nature's most dangerous and misunderstood phenomena. In certain industries such as aviation, power, and forestry, lightning strikes have the potential to severely disrupt operations and impact the safety of large groups of people.

With the launch of NOAA's new GOES-R Series satellites, scientists and engineers are able to observe lightning from space for the first time thanks to an innovative instrument known as the Geostationary Lightning Mapper (GLM). This new ability has led to new approaches and opportunities for observing and measuring lightning.

The Opportunity
GST's Commercial Weather Group is seeking a highly-motivated intern who is excited about the intersection of science and technology to work with our engineering team to construct next generation lightning alert software products that utilize data provided by GOES-R Series satellites. These tools will have a global impact and provide an additional layer of safety for end-users across the world, particularly in the aviation industry.

Requirements
This position is open for any student who will either be a rising junior or a rising senior in the **Fall of 2019**. Applicants for this position are expected to possess:

- Interest, background, or education in Earth Sciences (e.g. Meteorology, Climatology).
- Knowledge of a modern programming language (e.g. Python, Ruby, Java, JavaScript, C, C++).
- The ability to read and comprehend moderately complex technical documents, such as software library specifications.
- The ability to work effectively as part of a geographically dispersed team.
- The ability to independently learn new technologies and methodologies.
- Strong verbal and written communication skills.
- The motivation to be a self-starter and outside-of-the-box thinker.

Desired Skills
These skills, although not required, are considered to be highly beneficial to the role:

- Classroom and/or real-world experience with GIS software such as ArcGIS.
- Classroom and/or real-world experience with Remote Sensing techniques.
- Classroom and/or real-world experience with mobile application development.

Benefits

- Become a contributing member of a commercial software development team.
- Gain great insight into software development best practices.
- Work with customers across the world.
- Develop unique skills in science and technology that are highly sought after in the industry.

Start Date

This internship is anticipated to start at the beginning of Spring Semester 2019 and run until the end of the school year. Based on performance, there will be the option to extend the internship into the Summer of 2019.

Hours per week

Students will be required to commit a maximum of 10 hours per week to this internship during the Spring Semester and a maximum of 40 hours per week during the Summer.

Application Process

To be considered for this position, please submit the following items to **greg.mundy@gst.com** on or before **October 1, 2018**:

- A brief statement (1-page maximum) outlining why you are interested in the internship, your relevant skills and experience, and what benefit you expect to derive from participating in this program.
- A resume (2-pages maximum) which includes any relevant work and/or classroom experiences that relate to the internship.
- A letter of recommendation (1-page maximum) from a faculty member who is willing to serve as your faculty mentor for this position, attesting to your ability to meet the requirements of the internship, and agreeing to serve as your faculty mentor for this position.

Submit the application **from your Shepherd email account,** and **CC your faculty mentor.**

Candidates who meet the criteria will be notified by email on or before October 8, 2018. All eligible candidates will be required to participate in a face-to-face interview at Shepherd University on October 15, 2018. The selected candidate will be notified by October 30, 2018.

Salary/Stipend

$14/hour - $18/hour (depending on academic rank and relevant experience).

About Us

GST provides superior service in the fields of science, engineering, Information Technology (IT), and technical support to worldwide government, industry, and academic clients. GST has built a highly specified workforce that includes experts in these key domains. From projects such as instrument engineering for the Hubble Space Telescope program, to meteorology, software engineering, and satellite communications—GST is committed to technical excellence and customer satisfaction.

GST has built a global reputation for serving clients through effective technology utilization and an intense customer focus. Our passion for innovation, tempered by years of real-world business experience, has made us a technology solution provider of choice for Government and industry alike. We pride ourselves on the public and private partnerships we have built and maintained since 1991.