Research Opening: Large-Scale Spatial Data Analysis

The Guikema research group in IOE has an opening for an undergraduate or masters student with strong experience working with large-scale (100s of millions of records) geospatial databases and the analysis of geospatial data. Candidates must be proficient in Python, database structures, and geospatial analysis in Python. Pay will be hourly. Preference will be given to students who may be available to continue to work over the summer and into the fall, though short-term appointments may be possible as well. Interested students should submit their resume and a brief summary of their experience with large-scale geospatial data by email to sguikema@umich.edu with a copy to agracew@umich.edu. Applications received by February 18 will be given priority, though applications will continue to be reviewed until the position is filled.

Gender Inclusivity Study

Researchers at Oregon State University are conducting the first nation-wide study of transgender and gender non-conforming (TGNC) student experiences in engineering programs. The purpose of this study is to document the experiences of TGNC engineering students and learn about the strategies that promote their success. This study is funded by the National Science Foundation (Grant # 1764103) and approved by the Oregon State University Institutional Review Board (Study # 8339).

The researchers are asking undergraduate students who identify as members of the TGNC community to participate in an online questionnaire about their educational experiences. The survey will take about 10 minutes to complete. Your responses will be confidential. The research team includes members of the TGNC community and the process will be collaborative – with TGNC students having opportunities to participate in the interpretation of the data. You must be 18 years or older to participate in the study.
Please click the link below for more information and to begin the questionnaire:
http://oregonstate.qualtrics.com/jfe/form/SV_1FYxEUBxFi1U3Rj

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**Tau Beta Pi Michigan Gamma Scholarship**

Tau Beta Pi is the engineering honor society that encompasses all disciplines, and our chapter is happy to announce the second annual Tau Beta Pi Michigan Gamma Scholarship that will be given at the Leaders & Honors Brunch in March.

One award of $500 will be given on the basis of exemplary character, integrity, and excellence evaluated by responses to essay prompts. All undergraduate engineering students at the University of Michigan - Ann Arbor* are eligible to apply, and the application will close on Monday, February 25th, 2019 at 11:59pm.

More information about selection criteria can be found on the application itself, at this link: https://goo.gl/forms/5ILTU13AiH30C0ik1.

Please direct any questions about the application to tbp.scholarship@umich.edu. We look forward to reviewing your applications!

* Previous winners are not eligible to reapply.

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**Sling Health Team Member Search**

Sling Health is a bioengineering design and entrepreneurship incubator that helps connect students to address medical issues and improve healthcare. It is completely student-run, bringing together engineers, medical students, law students, and business students into small teams. This national organization has created 15 startups and has raised over 6 million dollars in outside investments and awards.

Our team:
Our team is creating a smart contact lens case. Failure to wear and clean contact lenses properly leads to increased risk of infection and discomfort; our product aims to automate as many aspects of lens care as possible in order to decrease risks of infections and brand switching. We are searching for a new member with a computer science and electrical engineering background to develop an app connected to our device.

Tasks and related skills:

- Work in the development of a Mobile Application
- Be involved in the whole process of development: Development and implementation, Design, Modifications, UI
- Strong knowledge of application development methodologies
- Experience with IoT (Arduino/Raspberry Pi) to connect the app to the device
- Experience with API
- Basic electrical engineering knowledge

Interpersonal skills:

- Great teamwork skills
- Interested in gaining experience in medical innovation and entrepreneurship
- Able to work under tight project deadlines
- Creative and proactive
- Effective communication abilities

For more information, contact Nick Nelson (nanelson@umich.edu).

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**Seeking Applicants for Summer 2019 ApREECE REU Program**

The Applied Research Experience in Electrical and Computer Engineering (ApREECE) is now seeking applicants. It is a 10 week program at Oakland University in Rochester, Michigan where undergraduate students are invited to complete research projects with faculty. The application deadline is March 31. See flyer for more information. The application and additional details can be found at the ApREECE website.
Gartner Corporate Information Session Tomorrow (2/19)

Gartner
Tuesday, 2/19/19 6:00-7:30 PM
1005 EECS
Positions: Full-Time, Intern
Majors: Computer Engineering, Computer Science, Data Science, Mechanical Engineering
Degrees: Bachelors, Master's
Citizenship: US Citizen
Resumes: Yes

*Food will be provided at all sessions!

A calendar with all of SWE's Corporate Information Sessions can be found here.

Contact: Society of Women Engineers (swe.car.pub@umich.edu)

Leadership Opportunities for EECS Students!
February 22, 2019
12:00pm - 1:00pm
Weiser Hall 8th Floor, Open Space

Are you interested in developing as a leader? Do you need funding to get your initiatives started? Have you been looking for networking opportunities across the globe?

The Barger Leadership Institute (https://lsa.umich.edu/bli) invites you to our Lunch & Learn next Friday, February 22nd from 12:00pm to 1:30pm in the Weiser Hall 8th Floor open space. We'll talk about our great funding opportunities, professional development, leadership excursions, and much more. Grab some pizza and chill with the amazing staff and members of the BLI! All University of Michigan students are welcome and we encourage everyone to bring a friend!

Please RSVP at this link (https://sessions.studentlife.umich.edu/track/event/session/14486). Hope to see you there!
Innovation in Dental Instrument Project Seeking EE Recruits

Please see attached flyer for a project opportunity surrounding dental innovation.

Ross Class Opening for ECE Students

Applications are now open for the Living Business Leadership Experience (LBLE)
class at the Ross School of Business for Fall 2019. LBLE is a semester-long class that pairs interdisciplinary student teams with real companies big and small across retail, entertainment, healthcare, and more to develop and lead operational business units.

Students experience hands-on learning, work with diverse teams, and gain new industry perspectives. A key part of these projects is working with students from schools across the university, and ECE students would be great additions to the teams! Students should be juniors, seniors, or graduate levels.

Check out the LBLE website to get more info on the projects and application process. Still have questions? Email our team at Ross-LBLE@umich.edu.

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**Summer Leadership Opportunity**

**Volunteer Abroad Site Lead**

Still not sure what you’re doing this summer? Looking to do something meaningful while gaining valuable leadership experience?

Each year, Phalombe Initiative for Education sends a group of freshman students to Phalombe, Malawi for an immersive seven week volunteer abroad program. This trip will take place from May 4 - June 24 and is focused on education in secondary schools. Due to recent events, two of our site leads have unfortunately had to drop out. We are looking for any upperclassmen (including sophomores) that are passionate about education to lead this upcoming volunteer abroad program!

More information about the trip logistics can be found in these slides. The connections you form with the students and the community there, as well as the U-M students you travel with, are amazing and have lasting impacts.

If this sounds like something you would be interested in, please send us an email at pie-eboard@umich.edu. There is no deadline for this, but we are looking for someone as soon as possible so they can jump right in to trip planning! Don’t hesitate to contact us if you have any further questions regarding the trip or the responsibilities as a site lead!

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*This information is sent on behalf of the individuals listed in each announcements. These opportunities are not
directly affiliated with the EECS Undergraduate Advising Offices.*

www.eecs.umich.edu