

# Civil and Environmental Engineering Announcements

Week 10 -- March 7, 2022

Happy Week 10 and Goodluck with your Finals!

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# Get Involved on Campus

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## Sandia National Laboratories - UC Davis Undergrad Design Competition

Sandia National Laboratories is hosting an undergraduate design competition with a \$1300 cash prize—specifically for UC Davis students. The competition is open to all students in the College of Engineering. Students participating in Senior Design projects may be especially interested in competing, as they can potentially re-use or leverage work they've done for their projects.

Sandia National Laboratories announces the 2022 Sandia Engineering Design Award with the College of Engineering at UC Davis! This annual competition recognizes outstanding engineering design that contributes to national security (broadly interpreted—see below). The award is open to all undergraduate student teams in the College of Engineering with **less than 10 members**. Larger teams may apply as sub-teams.

What do the winners of this competition receive?

- An award of **\$1300.00** to be split equally by all members of the registered design team
- Recognition at the UC Davis College of Engineering Design Showcase

What are the entry requirements?

- Teams should register for the UC Davis COE Engineering Design Showcase and indicate interest to participate in the Sandia Design Award. Refer to the Engineering Design Showcase website for registration details: <https://engineering.ucdavis.edu/engineering-design-showcase>
- Engineering design projects should show alignment with Sandia's mission areas (<http://www.sandia.gov/>) or the National Academy of Engineering's Grand Challenges (<http://www.engineeringchallenges.org/cms/challenges.aspx>)
- Competition entries will be reviewed on the basis of a written report and an oral presentation
  - Consult the competition website (provided below) for judging criteria
  - Evaluation conducted by UC Davis faculty and Sandia National Labs technical staff

What is the submission deadline?

- The written report submissions are due on **Wednesday May 18<sup>th</sup>, 2022**. Refer to the competition website for details on how to submit.
- Oral presentations for finalists will occur in conjunction with the UC Davis COE Engineering Design Showcase.

Please refer to the competition website (<https://www.sandia.gov/ucd-design-awards/>) for more information, as this will be updated periodically throughout the year.

Questions? You may contact Sandia ([designaward@sandia.gov](mailto:designaward@sandia.gov)) or the Engineering Associate Dean for Undergraduate Education ([engrugasctdean@ucdavis.edu](mailto:engrugasctdean@ucdavis.edu)).

## Air and Waste Management Association Student Competition

The Air and Waste Management Association (A&WMA), which covers the greater Sacramento area is hosting an Environmental Challenge International (ECi), which is a student competition that will take place at this year's A&WMA annual conference and exposition (ACE) in San Francisco in June. This will probably be the last time the ACE will be local to Northern California in the next two decades as it travels around North America.

They would love to see Northern California colleges compete in the ECi, especially those from the Sacramento area. To sweeten the pot for Sac State and UC Davis, their chapter is offering \$1,000 per school to offset some of the costs for teams.

The link to the ECi page of the A&WMA website is below. There you will find the Protocol that provides all of the details on the competition, including the various rules and requirements, as well as the Problem, which is the specific environmental issue the students have to solve. This year's Problem focuses on air quality impacts on port communities and the sources that cause those impacts. Information on the overall ACE can also be found on the A&WMA website.

<https://www.awma.org/eci>

# First-Year Seminar Opportunities for Spring

First-Year Seminars provide you with an opportunity to explore exciting topics, participate in meaningful dialogue, and engage in hands-on research. Explore a wide variety of seminars from Classic to Global Learning to First-Gen to Course-based Undergraduate Research Experience (CURE) styles that include:

- CURE: Exploring the Molecular Universe with ALMA
- Food Justice and Health Equity
- Learning Unity through India's Diversity and Street Food Culture
- Millennial Marketing and Research 101
- Make an Exhibition: First Generation College Student Experiences

First-Year Seminars enhance your academic journey by offering small, for-credit courses that are limited to 19 students and taught by faculty committed to your success. This supportive learning environment fosters interaction with professors and other first-year students to facilitate community and discovery unmatched by many large first-year courses.

A 1 or 2 unit First-Year Seminar can easily fit into your schedule. We invite you to browse our [course offerings](#) and look forward to you joining us this Spring!

**Learn More About First-Year  
Seminars**

# UC Davis Matlab Event

You are invited to an in-person UC Davis MATLAB Day on Wednesday, March 9<sup>th</sup> from 11:30 am - 2 pm at Kemper 1127. MATLAB Day events are complimentary and open to everyone on campus. A prior MATLAB knowledge is not required.

The following sessions will be presented by MathWorks engineers, and you will have time for Q&A – use this time to ask our engineers anything about MathWorks tools, Open Source, and the Future of AI!

Session 1: Introduction to MATLAB (11:30 am -12:30 pm)

Presented by Dr. Aycan Hacioglu, MathWorks Customer Success Engineer

Session 2: Using MATLAB with Python Seminar (12.30 pm-2 pm)

Presented by Dr. Heather Gorr, MathWorks Senior MATLAB Product Manager

Please view the detailed agendas and register here:

<https://forms.office.com/r/7bzcZYYrdk>

Open Ceilings call for submissions!



## Call for Submissions!

**Open Ceilings accepts  
short fiction, poetry,  
and creative nonfiction.**

For a chance to appear in our  
upcoming issue, send your work to  
[submitopenceilings@gmail.com](mailto:submitopenceilings@gmail.com).

**The magazine also  
features photography  
and artwork submissions.**

For submission guidelines and more  
information, please visit our website at  
or email our team.

🌐 [www.openceilingsmagazine.com](http://www.openceilingsmagazine.com)

✉ [contactopenceilings@gmail.com](mailto:contactopenceilings@gmail.com)

f [openceilingsmagazine](#)    @ [open.ceilings](#)

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*Open Ceilings* is a completely undergraduate-run literary magazine specifically dedicated to creative writing and the arts. With the support of the English Department and members of the Davis community, *Open Ceilings* aims to capture and preserve in print the creative work of students, staff, faculty, and community members in Davis. As a semiannual publication releasing summer and winter issues each

year, *Open Ceilings* accepts short fiction, poetry, and creative nonfiction. The magazine also features photography and artwork submissions.

For a chance to appear in their upcoming issue, send your work to [submitopenceilings@gmail.com](mailto:submitopenceilings@gmail.com). The deadline to submit is June 30, 2022.

For submission guidelines and more information, please visit our [website](#) or email our team at [contactopenceilings@gmail.com](mailto:contactopenceilings@gmail.com).

To purchase the current issue of *Open Ceilings*, visit our [store](#).

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## Career/ Internship

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### Caltrans Recruiting Engineers



Do you know anyone looking for an exciting career?  
CALTRANS IS HIRING ENGINEERS! Let them know!

Our best advocates are our current employees,  
share these opportunities with friends and family  
and help us continue to make California brighter for all!

IMPACT LOCAL COMMUNITIES.  
WORK IN MULTIPLE FIELDS.  
TRAVEL THE STATE.  
**IMPACT THE ENVIRONMENT.**

## **ENGINEER THE FUTURE OF CALIFORNIA!**

Be a part of engineering the future of California and join their team today.

**Search and apply for Engineering careers with Caltrans here:**

<https://www.surveymonkey.com/r/CTEngineers>

**Steps to Apply:**

<https://lnkd.in/guRyVfSW>

Connect with their Recruitment Team Today!

**Phone/Text: (279) 234-2250**

**Email: AskRecruitment@dot.ca.gov**



Bauer Associates Job-Opening





**Bauer Associates, Inc. has an immediate opening for a Geotechnical Engineer. We are a full-service, geotechnical engineering and geologic firm in the Northern California Bay Area.**

Requirements for this position include:

- Bachelor's Degree in Civil Engineering (BSCE).
- Passed FE/EIT Exam.
- Ability to work on several projects concurrently.
- Ability to focus on the details of a project while understanding the big picture from the project team perspective.
- Strong verbal and written communication skills.
- Ability to work both independently and collaboratively on a project team, with demonstrated time management skills.
- Construction related experience preferred, but not required.

This is a full-time position with excellent benefits, including medical, retirement, holiday, and sick and vacation time.

Salary: commensurate with experience

Bauer Associates, Inc., is a well-established Geotechnical consulting firm located in Forestville. Our primary areas of service are in Sonoma, Napa, Lake, Mendocino, and Marin Counties.

More detailed company information is available on our web site at ***Bauergeotech.com***.

**TO APPLY:** Please submit your resume with a cover letter explaining your reason for interest in this position to [art@bauergeotech.com](mailto:art@bauergeotech.com)

## CITRIS Workforce Innovation Program for Undergraduates

The CITRIS Workforce Innovation Program helps UC students pursue world-changing research and accelerate their careers. See [program web page](#) for full details.

### Audience

Undergraduate students from all majors at UC Berkeley, UC Davis, UC Merced and UC Santa Cruz seeking summer internships in an area of emerging IT innovation important to the state of California. Students who represent the rich diversity of the University of California, including women, people from underrepresented backgrounds, Pell Grant recipients, undocumented students and first-generation students, are encouraged to apply.

**Host organizations** in the five designated areas of innovation: aviation, climate resilience, digital health, robotics and semiconductors.

## Internship areas

### Aviation:

Expanding use of uncrewed aerial vehicles (UAVs), electrification of flight, leveraging data to improve air transport

### Climate Resilience:

- Improving energy efficiency, water use, food security, food tech, AgTech, decarbonization of transportation and other industries.
- For UC Berkeley students, additional placements are available through our partnership with the CITRIS Climate [Cal](#)
- [Energy Corps](#) program (separate application required).
- Digital Health:
  - Delivering quality care and improving access, expanding data analytics and telehealth technologies
- Robotics:
  - Augmenting human experience and capacity with automation and sensing
- Semiconductors:
  - Advancing next-generation micro- and nanoelectronics and related emerging technologies, including quantum computing
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### Intern expectations

- Earn
  - \$25 per hour for eight weeks, 30 hours per week
- Receive
  - real-world experience (remote or in-person) at an established company, startup, national lab, government agency or nonprofit engaging in an emerging area of innovation
- Participate
  - in a series of pre-internship workshops to gain technical, communication and leadership skills
- Learn
  - practices to cultivate an entrepreneurial mindset before starting job placements
- Work

- on projects to add to their professional portfolio
- Provide
- a fresh perspective and creative ideas to address concrete problems
- Network
- with peers and industry professionals

#### Timeline

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- January: Applications open Monday, Jan. 31
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- March: Applications are due Friday, March 18, at 11:59 p.m. PT
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- March–April: Internships are assigned
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- May–June: Pre-internship training workshops take place
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- June: Internships begin, running through August 2022

## EBMUD Job Information

There are job openings at EBMUD, their Lab, and other wastewater fields in California. Please click the links below to access this helpful job information.

[East Bay Municipal Utility District :: Job opportunities \(ebmud.com\)](http://ebmud.com)

[156 Jobs found | CA Water Jobs \(cwea.org\)](http://cwea.org)

## Chevron Environmental Engineering opportunities

Below are a few openings at Chevron for Environmental Engineers

[2021-2022: Health, Safety and Environment Intern | Chevron | Handshake \(joinhandshake.com\)](#)

[2021-2022: Health, Safety and Environment Full Time | Chevron | Handshake \(joinhandshake.com\)](#)

## Paid Summer Remote Internship with the U.S. Bureau of Reclamation

MANO is excited to inform you of a Paid Summer Remote Internship opportunity with the U.S. Bureau of Reclamation (BOR) Resource Assistant Internship (RAI) Program. Intermediate level Spanish reading, writing, and speaking is a requirement for this position. Applications for this position are due on **Monday, March 14th, 2022**.

**Hispanic Access Foundation's** [MANO Project](#) offers enriching internship experiences **nationwide** for **Latinx college students and upcoming professionals of color** who are passionate about the outdoors, geography, community engagement, public lands, cultural resources, and natural resources. We'd like to ask for your help in sharing these opportunities with talented Latinx students and students of color, as well as recent grads, who may be interested in getting work experience with a federal land management agency.

Applications can be submitted through the website: [MANO Project](#)

To those applying, we wish you all the best in your professional pursuits.