Civil Engineering Undergraduate Announcements – October 12, 2020

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ASCE/XE 6th Annual CEE (Virtual) Career Fair

Are you looking for an internship, full-time job position, or an opportunity to learn about and connect with Civil Engineering companies? The American Society of Civil Engineers (ASCE) and

Chi Epsilon (XE) chapters are pleased to present their **Sixth Annual Civil Engineering (Virtual) Career Fair**! The career fair will take place on **Thursday-Friday, October 22nd-23rd from 9:00 AM to 2:00 PM via Zoom**. The career fair will host several civil and environmental engineering firms of multiple disciplines and is a great way to inquire about future careers, internships and networking opportunities. You will be able to have **one-on-one time** with any company of your choosing and the event is completely free! Students of all years and UC Davis alumni are welcome! You must register and reserve a time slot to attend, so register now! **Registrations close October 16th!**

For more information about the setup of the event and the companies attending, please see the attached information, visit their website, or feel free to contact ucd.asce.president@gmail.com.

Academic Opportunities

LCSI Change of Major and Minor Info Session
The CS Advising Team is hosting information sessions for students interested in changing their major to LCSI or adding an LCSI minor. If you are interested, please see the attached flyers for more information, and pre-registration is required.

HYD 144 / EBS 144 – Fall Quarter 2020
Attached is a PDF flyer for HYD 144 / EBS 144 Groundwater Hydrology. The class is complementary to ECI 144, which uses a more rigorous mathematical approach and will go into more depth to prepare students to take groundwater modeling courses. ECI 144 will be taught by Veronica Morales in Engineering. The two courses may be taken in either order. This course will be of interest to undergraduate and graduate students across a number of majors in environmental, engineering, agricultural, and policy sciences.

The course has in the past been more heavily focused on mathematical tools. The level of mathematics needed in the course now is limited to working with algebraic equations, e.g., $A + B - C = 5 - X$, then solving for X. Students do not need to have a background in integral or differential equations for this course. There is more emphasis on taking word problems and writing them as a simple algebraic equation to then solve for one of the unknown variables.

ECI 189A – Winter Quarter 2021
Justice, Humans, and Engineering
Instructor: Maureen Kinyua
Email: mnkinyua@ucdavis.edu
Office Hours: Tuesdays from 3:30 to 6:00 pm Pacific time.

Course Details
Course Time: Tuesdays 1:10 to 3:00 pm
Location: Zoom
Course CRN: 45276
Upper division undergraduates
2 units

Course Overview
Civil and Environmental Engineers play a critical role in the design, implementation, operation and maintenance of both natural and built environments that are crucial to the day-to-day lives of humans. However, engineering systems do not always reflect or meet the needs of the humans they intend to serve. As current events force us to bear witness to the many forms of -isms (e.g., sexism, classism, elitism and racism) in our civic institutions it is necessary to recognize the ethical responsibility engineers play in aggravating or alleviating these systemic issues within the backdrop of climate change.

The vision of this course is to introduce you, the future CEE engineering workforce, to concepts that will allow you to make informed judgements when applying your discipline (i.e., structural, transportation, geotechnical, environmental and water resources) knowledge in societal context. By the end of the course, students should be able to answer three fundamental questions: (1) what do humans need and what role do engineers play in meeting these needs; (2) what are the different forms of justice (e.g., economic, environmental and social) and do engineers apply these forms of justice in their work; and (3) how can engineers apply practical ethics in the field? My goal is to provide you with the skills to develop the capacity to engage in ethical and professional responsibilities in engineering situations. Lastly, my hope is that you will leave this course thinking critically about what it means to be a competent human-centered engineer in the 21st century.

Earthquake Engineering Research Institute (EERI) – MATLAB Coding Bootcamp

 The Earthquake Engineering Research Institute (EERI) student chapter at UC Davis will kick-off this year's events with a MATLAB Coding Bootcamp on **Friday (10/16) at 9:00 am** via Zoom. They will be covering various topics, aimed towards students without any previous coding experience. Two PhD students from the CEE department (Structural Major) will be leading the workshop.

For registration, follow the link below:
https://forms.gle/gXX4UgYRNa9cmRez6

Get Involved on Campus!

BioInnovation Group (BIG) Journal Club

Whether you are an underclassman wanting to get ahead by learning how to analyze research papers or a seasoned scholar who likes discussing the newest scientific discoveries, everyone is welcome at **BioInnovation Group's Journal Club**! Look forward to their meetings once every two weeks in which we get together as a fun group of undergrads to break down cool papers. If you have any requests for papers they should discuss, mention it at the meeting or fill out the RSVP form!

Their first meeting will be **this upcoming Monday, 10/12, from 1-2pm**, and they have a very new and exciting paper for you.

Have you ever asked yourself the question, "Are we really alone in the universe?" Ever wondered if any of the trillions, brazilians, and godzillian planets harbored life forms? So do they, and their paper this upcoming week tackles exactly this question. They will be discussing the article published in Nature science journal, "Phosphine gas in the cloud decks of Venus" in which Phosphine, a compound produced exclusively by microorganisms, was found in the atmosphere of our neighboring planet.

Undergraduate Research Week

The Undergraduate Research Center (URC) encourages new and returning undergraduate students to learn about research, funding and award opportunities in all disciplines across campus. From October 12-16, 2020, the URC will be hosting Undergraduate Research Week, during which there will be several campus-wide activities and workshops held virtually.

They invite you to participate. Check out the flyer and schedule of research related activities and participating departments, programs, and units. Mark your calendars and plan to attend!

HackDavis

HackDavis are a student-run organization that is dedicated to exploring the intersection between technology and society. Every year, they organize one of the biggest college hackathons, hosted on our very own UC Davis campus. With the switch to virtual platforms, they have decided to introduce fall workshops to provide opportunities for students to still get involved and learn new skills through beginner-friendly workshops.
Their first workshop: Build Your Personal Website is coming up next **Tuesday, October 13th from 7:30PM to 9PM.** You can find more information about our event here.

All experience levels and majors are welcome! This workshop is for all collegiate students!

Please sign up for our mailing list here. You can find more information on our Facebook page regarding future events. If you have any questions, please email **hello@hackdavis.io**.

American Water Works Association at UC Davis (AWWA)

If you are interested in water resources and the water industry and are looking for a club to join, AWWA is here for you! AWWA stands for the American Water Works Association. Their student chapter is working on promoting the professional success of future water resources and environmental engineers and scientists interested in the management and treatment of surface and groundwater resources

AWWA will be hosting their Fall Welcome Social this **Friday, October 16 from 4-6 pm**

They will first introduce the club and the officers. Afterward, AWWA will host several games such as Jack Box, Codenames, and Among Us (just to name a few). The link and meeting ID are provided here:

Link: https://ucdavis.zoom.us/j/97261978335

Meeting ID: 972 6197 8335

AWWA hopes to see you! Everyone is welcome, so feel to invite your friends to play some games! If you are interested in joining the club you may visit their website at awwaucdavis.weebly.com to sign up for the email listserv.

Represent DEI at this year's HACU Conference

Please consider representing the UC Davis Office of Diversity, Equity and Inclusion by attending the 2020 conference of the Hispanic Association of College and Universities (HACU) held virtually this year, October 26-28.

As part of the Vice Chancellor's commitment to institutional transformation and in keeping with the aspirations and vision set forth by the HSI Taskforce Report, **the Office of Diversity, Equity and Inclusion will cover the costs of attending the conference for up to 50 UC Davis students, faculty, staff, and HSI Taskforce members**.

If you are interested, fill out this interest form as soon as possible so they can ensure a broad and representative cohort of attendees.

HACU is the leading organization nationally championing higher education for Latinx people. As a quick look at the agenda shows, the conference is jam-packed with information regarding educational equity and HSI status. View agenda here.

Hard Tech Campus

 Hard Tech Campus, an organization that is looking to help turn sustainability oriented projects into products and is collaborating with the Startup Center on an event:

Everlastly is the first eco-conscious marketplace for the wedding and baby retail market that provides retail-wide environmental impact scoring and search prioritization, driving sustainable consumerism through programs that appeal to core human instincts: simplification, ego, trust, and belonging. Hear from Nathan Sedlander (bio attached), Co-CEO of Everlastly and a serial entrepreneur with a background in media that included work with American Idol and Sony Music Entertainment, about his journey towards environmental oriented entrepreneurship and ways that **YOU** could make an impact through support from UC Davis organizations in this installment of UC Davis' Student Startup Center's Mentor Meetups, hosted in collaboration with Hard Tech Campus.

When: **1:30 - 2:30 PM Pacific, Friday 10/16/2020**

Where: RSVP here to get calendar invite (https://forms.gle/6UhrAAvVYbfLeKq3A)

More info on UC Davis Student Startup Center: https://startup.ucdavis.edu/
More info on Hard Tech Campus: https://www.hardtechfund.com/htc.html

If you have any questions, feel free to email Samarth Sandeep, president at Hard Tech Fund, at smsandeep@ucdavis.edu.

Flyer to attach: https://drive.google.com/file/d/1w-ddktS_blsNsGpSixuhlr3PxxBpt1vg/view?usp=sharing

International Student Mentorship Program at UC Davis

As a registered student organization at UC Davis, **International Student Mentorship Program (ISMP)** is dedicated to support international students in all areas of life: Academics, Career Development, English Training/Conversation, Networking, and more! Please see more information at ismpdavis.org if you are an international student and interested in getting connected with other international students & mentors at UC Davis.

International Student Mentorship Program (ISMP) at UC Davis
Website: ismpdavis.org
Facebook: facebook.com/ismpdavis
Instagram: instagram.com/ismp_davis/

Engineering Peer Advisors Q&A Panel

The peer advisors at the Engineering Undergraduate Office will be holding a Q&A webinar to answer any and all questions you may have about getting involved at UC Davis! If you are interested please see the attached flyer for more information.

24 Hours of Realty: Countdown to the Future!

The Climate Reality Project Campus Corps at UC Davis is virtually hosting its second annual event, **24 Hours of Reality: Countdown to the Future!** Join us online on **Saturday, Oct 10th from 1pm-8pm**, and **Sunday Oct 11th from 8am-1pm** for artists, speakers, and

workshops on climate change in the wake of the pandemic, racial injustice, and California wildfires. This event will provide you with clarity on the climate crisis, information about solutions, and tools to take action for climate justice.

https://linktr.ee/climaterealityatUCD

Sandia Engineering Design Award Info Session

Please Join us this Friday October 16th to learn more about the Sandia Design Award

This award is part of the Annual Engineering Design Showcase. If you are participating this year, or just curious about it for your future participation, please come learn more about this additional design award you could win and the criteria for projects.

Register in advance for this webinar: https://ucdavis.zoom.us/webinar/register/WN_OPVfOlB_SHC2xSI-DxzVyA

Fall 2021 Graduate Application Fee Waivers

The COE Dean's Office is happy to again offer application fee waivers for domestic PhD applicants! After a limited pilot last year, they are pleased to expand the availability of these fee waivers. Their goal continues to be twofold: 1) to reduce the financial burden of the application fee and 2) increase the number of applications submitted, particularly from diverse and URM applicants.

COE Equity Program Fee Waiver Eligibility
- Applicants must seek **Fall 2021** admission to a **PhD** program administered by the **College of Engineering**. Applicants for MS programs are not eligible for a fee waiver through this program.
- Only US citizens or current permanent residents are eligible to receive a fee waiver through this program.
- Applicants who have participated in other Graduate Preparation Programs listed here already qualify for a fee waiver through that program.

Details About the Request Form
- Please refer applicants to this webpage to access the fee waiver request form: https://engineering.ucdavis.edu/coe-equity-program
- Applicants will need to provide brief contact information, as well as provide short responses to two questions.

- Those who qualify for a fee waiver will receive an email with directions on how to use the waiver. (NOTE: I will send waivers daily Monday-Friday only)

"Just Eat It' Film Screening

October 16, 7 - 8:30 pm

Celebrate [World Food Day](#) with a free screening of the food waste documentary, "[Just Eat It](#)." Open to the public.

Brought to you by the UC Davis Office of Sustainability, Student Housing and Dining Services Sustainability and Nutrition Team, Food Recovery Network, Zero Waste & Sustainability Club, and Kids in Nutrition. [Register on Eventbrite](#) for the Zoom link.

Transfer Student Welcome 2020

The **Transfer Fall Welcome** hosted by the Transfer and Reentry Center at UC Davis is coming up soon. This event is specifically for incoming transfer students (students who transferred from a community college or a 4-year institution to UC Davis).

Transfer Fall Welcome is a ***free event*** and it is an excellent opportunity to meet other transfer students and to learn about the resources at UC Davis that are here to support you throughout your academic journey. What a great way to be equipped for UC Davis, so don't miss out! **There will be about 30 campus resources virtually available for you to talk with and ask questions. Not to mention, there will be raffle prizes. Please see the attached flyer for more information.**

Transfer Fall Welcome

Date: Tuesday, October 20, 2020

Time: 4:00 – 5:00 p.m.

Must RSVP for Zoom details: https://docs.google.com/forms/d/e/1FAIpQLSfyWykYao16V-H1p3joLjA4hVB6Dsju1Vm93GmoYgW1UdP0EA/viewform

Job/Internship Opportunities

USDA – NRCS

Interested in working for the USDA, restoration, soils or environmental engineering?

The [USDA-NRCS](#) and [other USDA agencies](#) are posting over 700 [Pathways Internship and Recent Graduate](#) positions starting Oct 13. To be considered you should: (1) make sure you're [eligible](#) for the Pathways Program, (2) pull together a cover letter, resume (USAjobs.gov

format, pay attention to course hours needed for the position), and any other documents required and (3) apply with five days or less of when the job is posted.

To learn more about these positions and tips on applying attend the:
USDA-NRCS Pathways Webinar
TUESDAY OCTOBER 13
11am-noon PST
RSVP here: https://ucdavis.joinhandshake.com/events/597187

ICC Opportunities

Full Time/Entry Level Jobs

#4037994 Engineering Management Development Associate - Nestlé Purina

#4057045 Entry Level Design Engineer - Ripon Manufacturing Company

#4066538 Facilities Engineer Full Time - Chevron

#4061000 Associate Scientist Global Surfactants Materials - Procter & Gamble (P&G)

#4019419 Wafer Fab Equipment Engineer- Maxim Integrated

#4076875 Field Engineer - New College Graduate- Flatiron Construction

Internships/Part-Time Jobs

#4065939 Intern - Operations Engineering - FedEx Freight

#4065598 Support Analytics Intern (Summer 2021) - Citrix

#4027121 2021 USA Summer Internship Program – Research & Innovation - L'Oréal

#4071456 Product Test Engineer Intern (Summer 2021) - NXP Semiconductors

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Macey Miyahara
Civil Engineering Undergraduate Peer Advisor
civiladvising@ucdavis.edu