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Civil Engineering Undergraduate Announcements – November 2, 2020

Happy Week 5 and good luck on midterms! Remember passtimes were released TODAY

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Information on the WeChat Ban

WeChat is an extremely popular messaging app used by international students. If WeChat gets banned, a lot of international students can’t stay in touch with their families, relatives, and friends in their hometowns. ASUCD’s International Student Advocacy Task Force is hoping to keep international students updated about this issue and how to deal with it (for example, by using an alternative app). For more information please see the attached flyer.

ECI 193A: Senior Design Experience

Description: Culminating design experience for civil engineering and environmental engineering majors. Student teams work closely with faculty, city officials or consulting clients to propose, implement and validate a unique solution to a real-world problem. For Environmental Engineering majors, you must enroll in either the Environmental section or the Water Resources Section.

- Students must enroll in ECI 193A in winter and ECI 193B in spring.
- Students must be in their final year of study and graduating no later than winter 2022.
- A project will be assigned according to the specialization that you choose. This specialization will need to be the same for ECI 193A and ECI 193B.
- Students must enroll with the same faculty for both 193A and 193B.
- Students must complete the listed prerequisite courses to complete their senior design in the following specialization:

Environmental- Professor Loge

Prerequisite: ECI 140D with a C- or better.

Enroll in section 4 in winter and section 4 in spring 2020. The CRN for 193A is 20508.

Structures- Professor Lilliedoll

Prerequisite: ECI 132 or 135 with a C- or better.

Enroll in section 2 in winter and section 3 in spring 2020. The CRN for 193A is 20505.

Transportation- Professor Jaller

Prerequisite: ECI 161 or 163 with a C- or better.

Enroll in section 1 in winter and section 2 in spring 2020. The CRN for 193A is 20504.

Water Resources- Professor Schladow

Prerequisite: ECI 141/141L with a C- or better.

Enroll in section 3 in winter and section 1 in spring 2020. The CRN for 193A is 20506.

American Council of Engineering Companies of California (ACEC) Scholarships

The American Council of Engineering Companies of California (ACEC California) will be awarding several scholarships totaling up to \$50,000 for the 2021-2022 academic year. Please see the attached flyers for more information, or see their website, www.acec-ca.org.

The deadline to submit a scholarship application is January 13, 2021.

ACEC California is a nonprofit association of private consulting engineering and land surveying firms. As a statewide organization, we are dedicated to enhancing the consulting engineering and

land surveying professions. They work to promote the use of the private sector in the growth and development of safe buildings, environment, transportation and water. Their members provide services for all phases of planning, designing and constructing. Such member services include civil, structural, geotechnical, electrical and mechanical engineering and land surveying for all types of public works, residential, commercial and industrial projects.

Their scholarship program not only recognizes hard working and dedicated students but serves as a valuable way for our members to identify the best and the brightest students about to enter California's increasingly competitive job market.

If you have any questions about ACEC California or their scholarship program, please do not hesitate to contact Rosa Griggs at (916) 223-7126 or Jesse Hertzner at (916) 441-7991.

Student Startup Center

If you're interested in using innovation and entrepreneurship to solve some of the world's biggest challenges, come check out the [Student Startup Center](#) at UC Davis! Whether you're an expert startup founder or just beginning to explore an idea, the Student Startup Center has daily events for you. Sign up for our newsletter [here](#) to learn more.

In the meantime, check out these videos to learn more and feel free to reach out at startup@ucdavis.edu.

SSC Overview and Intro to Entrepreneurship Class

<https://www.youtube.com/watch?v=n9gZxhmC2M28>

SSC Makerspace

<https://www.youtube.com/watch?v=7sYmWe0M63Q>

SSC Visual Studios

<https://www.youtube.com/watch?v=Z40AM426-Z4&feature=youtu.be>

On-Campus Clubs

Society of Women Engineers (SWE)

[OSIsoft x SWE Info Session | RESCHEDULED: November 4rd at 7 PM PST](#)

SWE will also be hosting an info session with OSIsoft on **Wednesday, November 4rd at 7 PM PST**.

OSIsoft delivers an open enterprise infrastructure, the PI System™, to connect sensor-based data, systems, and people. The result: real-time, actionable insights that empower companies to optimize and transform their business. Learn more about OSIsoft on their [website here](#).

Meeting ID: 987 7947 8800

Passcode: 873169

Pre-Midterm SWE Social | November 5th at 7 PM PST

Join SWE on **Thursday, November 5th at 7-8 PM PST** for an evening filled with yummy recipes and fun new self-care ideas! Put on a face mask, comfy pj's, or anything that makes you de-stress, and bring your favorite recipe to share with the group! We hope to see you there for some pre-midterms relaxation. Please find the details below:

Date/Time: Thursday, Nov 5th, 2020 07:00 PM PST

Zoom Link: <https://ucdavis.zoom.us/j/99223721406?pwd=MmR5STI1UGFicUIzZWZpcmdXWDJMUT09>

Meeting ID: 992 2372 1406

Passcode: 149795

Bio Innovation Group (BIG)

BIG Journal Club

Who are we?

The BioInnovation Group Journal Club is a group by undergrads, for undergrads, who meet every other week to discuss the academic paper of choice that is groundbreaking, a scientific classic, just darn interesting, or all of the above! No scientific experience is required, nor do they expect you to come fully understanding everything in the paper. However, they do hope that you will come with questions so you can have a fun conversation where hopefully everyone will learn something new.

Meetings are every other Monday from 1-2 pm, with our next meeting scheduled for 11/09. [RSVP HERE](#)

The Paper

Cas9 is a bacterial endonuclease that has been repurposed to cut DNA from any organism. In this paper, they go into detail about how exactly the Cas9 protein is able to bind and cleave the double helix, and more importantly, the discovery that it can be programmed using chimeric RNA. This highly versatile method has been used for gene targeting, genome therapy, mutation research, and much more. The researchers Emmanuelle Charpentier and Jennifer Doudna were actually awarded the Nobel Prize in Chemistry this year. Join them as they dig into the paper that changed the field of genetics!

BIG Weekly Newsletter



BioInnovation Group Weekly Newsletter

Announcements

3D OPS is Hiring!

3D OPS is a research team with the BioInnovation group looking to take on more undergraduate researchers.

The team is trying to create artificial Nephila Clavipes dragline silk for future applications in the medical field. The first stages in this process are to use MaSp1 and MaSp2 proteins which we hope to gain from a 3rd party collaborator. In the next stage, we wish to investigate various manipulations of these spidroin proteins through a series of chemical and mechanical processes to both create and convert spider dope into bio-ink for pre-existing 3D printer systems to spin into a fiber.

[Apply now!](#)

The application is due November 6th.

The Algae-Insulin Team is looking for new members!

Algae to Insulin



Learn more at <http://bigucd.com/>



01. Our Goal?

To explore cost-effective and environmentally sustainable methods of producing recombinant proteins using *Chlamydomonas reinhardtii*. This is an under-studied host in synthetic biology, and we hope to explore the environmental sustainability opportunities it provides.

02. Looking For Students Who...

- 1) Have at least completed introductory coursework in molecular biology fields (BIS 2 series, Chem 2 series)
- 2) Preferably have prior lab experience and are very comfortable working directly with the primary literature

03. Advantages?

- 1) Learn how to engage in synthetic biology research
- 2) Join a close knit team of fellow student researchers
- 3) Engage with science in a way that you cannot get in most labs (There is no PI telling you what experiments to run, you have to figure that out on your own.)

04. Contact

Contact the BIG leadership team to apply

[Apply now!](#)

New BIG Instagram

Surprise! BIG now has an Instagram page!

Follow us **@big.ucdavis** to keep up with announcements and upcoming events, as well as to connect with other members and build an online community.

big.ucdavis

4
Posts

49
Followers

57
Following

Bio Innovation Group
A student-run organization at UC Davis with 5 ongoing projects to help students either further or jump-start their scientific career.
docs.google.com/forms/d/1zH9Lh0wbw_BjN-JTTyzQNxc...

Edit Profile

Meet Spore_Core!

Check out this super fun video by iGEM 2020's UC Davis team: Spore_Core.

Watch the video and learn more [here](#).

Follow [@ucdiegem](#) on Instagram!



Upcoming Events

Journal Club Returns
Monday, October 26th at 1pm

The BioInnovation Group Journal Club is a group by undergrads, for undergrads, where we meet every other week to discuss the academic paper of choice that is groundbreaking, a scientific classic, just darn interesting, or all of the above! No scientific experience is required, nor do we expect you to come fully understanding everything in the paper. However, we do hope that you will come with questions so we can have a fun conversation where hopefully everyone will learn something new.

This week we are reading a paper on how CRISPR was used to discover a T-cell interaction system that significantly reduced the number of cancer cells in infected individuals.

We look forward to seeing you there! [RSVP here to receive the zoom link.](#)

About BIG



bio innovation group

The BioInnovation Group is a student-run research organization that meets students where they are. As a community of undergraduates, we help students begin or further their scientific careers. Through our 5 ongoing projects and several programs dedicated to skill and leadership development, we are creating the next generation of biotech leaders.

Find out more about us at <https://bigucd.com/>
If you have any questions, reach out to us at big.ucdavis@gmail.com.

Webinars/Speakers to Check Out!

MANRRS – “Keys to Excelling in STEM”

Would you like to hear more about the experiences of current graduate students and their keys to succeeding as a student in STEM?

Join MANRRS at UCD for our “Keys to excelling in STEM” Panel Wednesday Nov 4 form 3:10-4:30pm.

This event will consist of a panel discussion with current graduate students discussing their experiences as a student in STEM followed by a 30 min "networking session" (4-4:30) for students who have additional questions or would like to talk to grad students present on a more personal level.

When: Wednesday November 4th

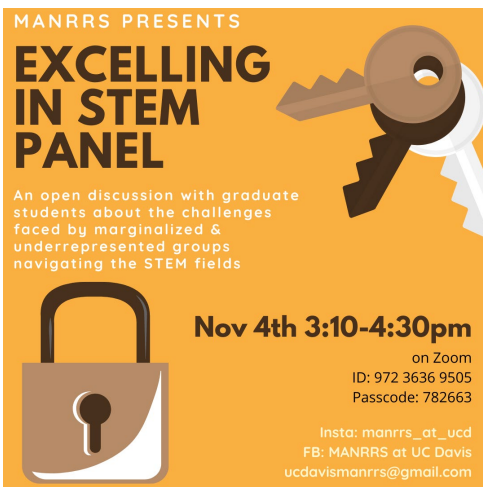
Time: 3:10-4:30pm

Zoom link: <https://ucdavis.zoom.us/j/97236369505>

Zoom ID: 972 3636 9505

Zoom Passcode: 782663

Questions? Email ucdavismanrrs@gmail.com



Distinguished Lecturer – “Safe Machine Learning” with Dr. Shafi Goldwasser

Join the College of Engineering on November 9 at 11 a.m. as we virtually host Dr. Shafi Goldwasser! She will discuss how cryptography and computational learning have shared a curious history: a scientific success for one has often provided an example of an impossible task for the

other. For more information, please see the attached flyer.

Dr. Shafi Goldwasser is the Director of the Simons Institute for the Theory of Computing and a professor of computer science at UC Berkeley. She is also the RSA Professor of Electrical Engineering and Computer Science at MIT, and a professor of computer science and applied mathematics at the Weizmann Institute of Science in Israel.

Webinar: “Emerging Professionals – Business Development Best Practices”

The CMAA NorCal Emerging Professionals Committee invites you to join in learning about Business Development through this virtual webinar event!

As we increase our reliance on virtual interaction, there is an increased need to strengthen business development skills in the construction management industry. Join Whitney Walter, Vice President for Layton Construction, as she discusses careers in business development, the importance of maintaining relationships with potential clients, and tips on sales & operations. An interactive audience Q & A session will follow the presentation.

Whitney Walter serves as Layton Construction's Vice President of Business Development & Preconstruction, and is the youngest and first female vice president in the company's history.

She heads their Northern California business development operations and serves as an essential leader in Layton's San Jose office. Within 12 months of Whitney's promotion to Vice President, she was recognized by the Silicon Valley Business Journal as a 2016 Woman of Influence and as one of ENR's 2016 Top Young Professionals.

She promotes the company's philanthropy work through charitable involvement and seeks to provide new growth opportunities for Layton.

Wednesday, November 11th, 2020

6:00 PM - 7:00 PM PST

ZOOM Webinar

CMAA Members - \$15

Non CMAA Members - \$25

Owner Agencies & Students - FREE

Unemployed - FREE

Please RSVP - [Download Zoom](#)

REGISTER

Questions:

Contact Alyosha Sinkevich - CMAA NorCal Emerging Professionals & CMIT Chair
alyoshasinkevich@kpmg.com

Masters in Professional Accounting

Masters of Professional Accountancy (MPAc) is a wonderful opportunity for students who may be interested in pursuing a career in accounting or preparing for leadership roles in for-profit or non-profit organizations.

Key advantages of the MPAc program include:

- **Accelerated 9-month program.**
- **100% of U.S. graduates in 2019 received career offers within six months**—with an average starting salary of \$62,000.
- **GMAT or GRE test waiver** for applicants with an undergraduate GPA of 3.2+.
- **Scholarships, financial aid and teaching assistantships are available.**

You are encouraged to learn more about our [Master of Professional Accountancy](#) program. You can [meet the MPAc faculty](#) and interact with [Student Ambassadors](#).

To learn more about admissions, career opportunities and scholarships, please contact MPAc Associate Director of Admissions William Orta to set up a [personal consultation](#). **Application deadlines for the cohort joining us in fall 2021 are December 18, February 12, and April 16. For more information please see the attached flyer.**

Job/Internship Opportunities

Provost's Undergraduate Fellowship (PUF) and Travel Award

Drop in for Q&A about the URC PUF and virtual travel award with the URC faculty director!

Topic: URC PUF and virtual travel award Q&A with faculty director

Times: Friday, Oct 30, 2020 10:00-10:30 AM Pacific Time (US and Canada)

Times: Monday, Nov 2, 2020 6:00-6:30 PM Pacific Time (US and Canada) Join Zoom Meeting

<https://ucdavis.zoom.us/j/91751874340?pwd=Q3hib0dZdUtyWXpjdWhNVW5pVHpldz09> Meeting

ID: 917 5187 4340

Passcode: 769747

PUF supports undergraduate students doing research or creative projects under the guidance of UC Davis faculty members. Students from all discipline areas are eligible to apply. Applicants need to be enrolled during the time of the research project. Past projects have involved laboratory research, field studies, survey research, film production, design and creation of art

elements, music composition, fine arts performances, travel to library or research collections, and many other endeavors. Group projects are not appropriate, however, separate (but linked) projects may be considered. The maximum award is \$1,800 toward approved costs directly related to the project.

Eligibility:

- Full or part time registered UC Davis undergraduate
- Good academic standing
- Meet satisfactory academic progress
- Enrolled during the quarter(s) that the research is carried out (for Spring Call of the award, applicant must be on continuing student status during the summer and enrolled in fall quarter)

APPLICATION DEADLINE: Tuesday, November 3, 2020, 11:59 p.m.

FACULTY SPONSOR LETTER DEADLINE: Thursday, November 5, 2020, 11:59 p.m.

Caltrans

The Office of Bridge Design in Caltrans in Sacramento is hiring a Bridge Engineer. For more information please see the link below. The final filing date is November 18, 2020.

LINK:

<https://www.calcareers.ca.gov/CalHrPublic/Jobs/JobPosting.aspx?JobControlId=222160>

Next Step Ministries

Next Step Ministries is thrilled to share with you that applications are open for their 2021 Summer Internships! A construction internship with Next Step provides you with the opportunity to lead hundreds of students in community-focused construction projects during nine weeks of mission trips. As part of their construction team, you will be directly involved in each project, with specific hands-on experience in on-site leadership, planning, estimating, scheduling, budgeting, and management. You will be overseeing energetic, professional construction worksite experiences for volunteers that greatly benefit the community, all while developing their individual skills. Next Step provides training and support, and places hired construction staff on a construction team in one of 10 communities.

Details:

Positions available: Construction Project Manager, Construction Site Supervisor

Salary: \$1,500+ (lodging and meals included)

Full Time Position: May 24 - August 10, 2021

If you are interested you can visit our [website](#), apply using [this link](#), email brian.ledtke@nextstepministries.com, or see the attached flyer for more information.

Peterson Brustad Inc

Peterson Brustad Inc is a firm located in Folsom, CA and specializes in water resources and

drinking water consulting. They have an immediate need for an entry level staff engineer. More information can be found in the attached flyer.

Opportunities from the ICC

Full Time/Entry Level Jobs

[#3428604 Entry Level Staff Engineer](#) - Tuan and Robinson, Structural Engineers, Inc.

[#4095107 Staff Engineer](#) - SCS Engineers

[#353238 Assistant Civil Engineer](#) - O'Dell Engineering

[#4001336 Engineer](#) - Tata Consultancy Services

[#4110448 Engineering Technician I/II](#) - City of Vacaville

[#3935206 Engineering Intern](#) - Whiting-Turner Contracting Company

[#4105520 SWE Intern](#) - Kintsugi

[Product Management Intern \(Winter 2021\)](#) - BlackBerry AtHoc

[System Engineering Intern](#) - Gotion Inc.

[Engineer New Graduate](#) - Del Monte Foods, Inc.

[IBM Quantum Entry Level Engineer \(2021\)](#) - IBM

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Macey Miyahara

Civil Engineering Undergraduate Peer Advisor

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