Hello Civil and Environmental Engineering Graduate Students,

Please be sure to look through the announcements this week as there are some event coming up TOMORROW and others at the end of the week. If you have any questions about the information below, please let me know!

1. **TOMORROW: UC Davis Water Climate Policy Reception (Attachment)**
2. **TOMORROW: Structural Engineering Seminar Series**
3. **CEE Distinguished Lecture: Fundamental Research on the Large Strain Consolidation of Soil**
4. **TA Orientation Registration for Fall 2019 is Now Open! (Attachment)**
5. **Job and Other Funding Opportunities**
   a. Atkins Job Opening for Entry Level Engineer
   b. Invitation to Apply for STEM Funding
   c. Sonoma Clean Power Job Opportunity (Attachment)
6. **Symposiums and Workshops**
   a. NextProf Pathfinder Workshop
   b. U.S. National Academies Call for Application: Arab-American Frontiers Symposium
   c. How is tech changing the Finance, Aerospace, and Entertainment industries?
7. **Fall 2019 TA Openings**
   a. Human Rights TAs
   b. Religious Studies TA
   c. Spanish TA Position

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1. **TOMORROW: UC Davis Water Climate Policy Reception (Attachment)**

The Union of Concerned Scientists (UCS), UC Davis Water Management Lab, and UC Davis Center for Watershed Sciences invite you to a reception and panel entitled *Managing Water in a Changing California.* The event will be held Wednesday, May 22nd from 6 – 8 p.m. in PES 3001 at UC Davis. Check out the attached flyer for details or see below. Refreshments will be served.

As climate change intensifies, California’s water system will experience new and different stresses, including more frequent and intense “extreme events,” such as droughts and flooding. Our state’s historical reservoirs of snowpack and groundwater are less certain now than ever, and the state’s population is expected to continue growing well into mid-century. New laws like the Sustainable Groundwater Management Act (SGMA) and the Instream Flows Policy mandate that historic drawdown be mitigated, presenting new challenges and opportunities for a functional and resilient water system. And powerful grassroots organizing has resulted in an increase in – and in some cases, requirements for
– involvement from diverse stakeholders in water decision-making processes, including scientists, communities, and native tribes.
All of these changes and more require experts, practitioners, and stakeholders to work together to innovate and implement solutions for tomorrow’s water system. UCS would like to help connect the community of experts at Davis who are working in the fields of climate, water, and policy to foster research collaboration and application of your skills to our current water decision-making challenges. Join graduate students, faculty, and practitioners to mix and mingle, eat and drink, and co-create the future of water management in California.
RSVP Today!
Where: UC Davis, Plants and Environmental Sciences Building (PES) 3001 (387 N Quad, Davis, CA 95616)
Date: Wednesday, May 22, 2019
Time: 6:00–8:00 p.m.

2. TOMORROW: Structural Engineering Seminar Series

WEDNESDAY, MAY 22, 2019, 10:30 – 11:30AM
Campus Location: Ghausi Hall
Room: 3102B - CEE Conference Room
Location of Event: UC Davis Campus
Contact Email: cee-office@ucdavis.edu
Contact Phone #: 5307520586
Event Type: Lectures and Seminars
Presented by: Civil and Environmental Engineering
Ben Faircloth of CYS Structural Engineers, will be presenting the topic “Truckee High School Modernization: A Challenge in Project Delivery & Business Risk”

3. CEE Distinguished Lecture: Fundamental Research on the Large Strain Consolidation of Soil

FRIDAY, MAY 24, 2019, 11AM – 12PM
Campus Location: Ghausi Hall
Room: 3102B Conference Room
Location of Event: UC Davis Campus
Cost: No Charge
Contact Email: rerodrigues@ucdavis.edu
Contact Phone #: 5307520340
**Event Type**: Lectures and Seminars  
**Presented by**: Civil and Environmental Engineering

Abstract: This lecture will provide an overview of 20 years of computational and experimental research conducted by Dr. Fox and his students on large strain soil consolidation. The basic method, coded into the model CS2, accounts for vertical strain, soil self-weight, relative velocities of solid and fluid phases, time-dependent loading, unload/reload effects, and variable hydraulic conductivity and compressibility during the consolidation process. The method has been adapted for layered systems (CS3), accreting soil layers (CS4), centrifuge loading (CC1), constant rate of strain (CCRS1), coupled-solute transport (CST1), and other conditions. Solute transport is accomplished using a dual-Lagrangian framework to follow separately the motions of solid and fluid phases, and accounts for advection, diffusion, dispersion, non-linear and non-equilibrium sorption, and first order decay reactions. Applications include disposal of contaminated slurry wastes, coupled consolidation and transport through clay liners, and consolidation of contaminated sediments. Model simulations are verified using available analytical and numerical solutions and compared with experimental data. Finally, current research on application of the CS2 method to unsaturated soils and heat transfer is discussed.

Speaker: Dr. Patrick J. Fox is the Shaw Professor and Head of the Department of Civil and Environmental Engineering at Penn State University, with specialization in geotechnical and geoenvironmental engineering. He has a broad range of expertise, including slope stability, landfills, geosynthetics, groundwater, consolidation, and retaining walls, and has won awards for research, teaching, and service. Research awards include the ASCE Casagrande Award, ASCE Middlebrooks Award (twice), IGS Award (twice) from the International Geosynthetics Society, Desai Medal and Booker Medal from the International Association for Computer Methods and Advances in Geomechanics, and best paper awards from the Geotechnical Testing Journal, Geosynthetics International (twice), and the International Journal of Geomechanics (three times). He currently serves as Vice-President of the ASCE Geo-Institute and as Editorial Board Member for Geosynthetics International, Geotextiles & Geomembranes, and the International Journal of Geomechanics. Dr. Fox was Editor-in-Chief of the ASCE Journal of Geotechnical and Geoenvironmental Engineering from 2010 to 2015, and is a member and past chair of the Technical Publications Committee of the ASCE Geo-Institute. He is a licensed professional engineer and Fellow of ASCE.

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4. **TA Orientation Registration for Fall 2019 is Now Open!** (Attachment)

**Registration for the Fall 2019 TA Orientation is now OPEN** and can be accessed on the TA Orientation website. Please register by the priority deadline of **Friday, September 6, 2019**.

Please refer to the attached letter for details regarding the TA Orientation and the required in-person sessions. **All TAs who have not yet attended the UC Davis TA Orientation are required by the UC Office of the President and UC Davis Graduate Studies to attend**, even if they have taught previously.

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5. **Job and Other Funding Opportunities**
a. Atkins Job Opening for Entry Level Engineer

Atkins Global, has a requisition open for an entry-level engineer to join our team in Reno, NV ASAP.

Here is a link to our posting, and to apply: https://careers.atkinsglobal.com/job/construction-engineer-roadway--jobid-na-003286

b. Invitation to Apply for STEM Funding

We are recruiting applicants to apply for 1 year of funding via the NSF Bridge-to-the-Doctorate program. To be eligible, applicants must have participated in an LSAMP or CAMP program during their undergraduate careers and be currently enrolled in a PhD program.

The application is available HERE.

The deadline to apply is Monday, May 27, 2019 at 5pm.

A letter of recommendation is required from your current research advisor. Please have them submit the letter to gsdiversity@ucdavis.edu.

c. Sonoma Clean Power Job Opportunity (Attachment)

Sonoma Clean Power (the default energy provider for Sonoma & Mendocino Counties) is currently recruiting for an Energy Analyst in our Power Procurement Division. This is a great opportunity to work with a dynamic team in an organization that is helping to solve the climate crisis at a local level.

This position is likely to pay in the $70,000 to $95,000 range and is negotiable depending on experience. More information about the position, including how to apply, can be found on our website at: https://sonomacleanpower.org/job-opportunities

6. Symposiums and Workshops

a. NextProf Pathfinder Workshop

The University of Michigan College of Engineering is hosting the NextProf Pathfinder Workshop. This workshop is intended for 1st and 2nd year Ph.D. students or students in a masters program intending to apply for a Ph.D. program in engineering.

The workshop prepares the participants early for a successful Ph.D. graduate school experience. Participants will also receive information on what it takes to build a competitive graduate school record to obtain a faculty position in academia/the professoriate.
b. U.S. National Academies Call for Application: Arab-American Frontiers Symposium

The U.S. National Academies of Sciences, Engineering, and Medicine in partnership with the Library of Alexandria and Academy of Scientific Research and Technology, are pleased to announce the seventh Arab-American Frontiers of Science, Engineering, and Medicine Symposium. The upcoming meeting will be held on November 17 to 19, 2019 in Cairo, Egypt. The call for applications is now open and scientists, engineers, and medical professionals from the U.S. and the Arab region are invited to submit their applications online before the deadline of July 1, 2019, 11:59 PM EDT (Washington D.C. time).

Based on the success of the long standing Kavli Frontiers of Science of the U.S. National Academy of Sciences and the Frontiers of Engineering program of the U.S. National Academy of Engineering, the National Academies initiated the Arab-American Frontiers of Science, Engineering, and Medicine program. This program brings together outstanding young scientists, engineers, and medical professionals, between the ages of 30 and 45, from the United States and the 22 countries of the Arab League for a series of symposia to discuss exciting advances and opportunities in their fields. The goal of these meetings is to enhance scientific exchange and dialogue among young researchers in Arab countries and the United States, including the Arab science diaspora, and through this interaction facilitate research collaboration within and beyond the region.

One of the main objectives of this Frontiers symposium is to advance our understanding of cutting-edge S&T trends in the U.S. and the Arab region and to foster dialogue and collaborations across disciplines. The upcoming symposium will address the following topics:
We strongly encourage young scientists, engineers and medical professionals working on related research to apply to this truly pluri-disciplinary meeting, as long as they fulfill the eligibility criteria. Please also distribute to your interested colleagues and your network. Each general participant will also have the opportunity to present his or her research during poster sessions. Travel of selected participants will be covered. More details on the seventh symposium, organization and program can be found here.

Please remember to submit your application online by the deadline of July 1, 2019. For questions regarding the upcoming symposium or the application process, please e-mail us at: AAFrontiers@nas.edu. For more information on the Arab-American Frontiers Program, please visit our website: www.nas.edu/AAFrontiers

Thank you for your interest in the Arab-American Frontiers program, feel free to like us on Facebook and follow us on Twitter. Hope to see many of you in Egypt!

c. How is tech changing the Finance, Aerospace, and Entertainment industries?

PROGRAM DATES: 06.24.2019 - 08.02.2019
2019 Speakers and Company Visits

Learn from and network with our accomplished speakers:

- Learn about blockchain from an ex-Googler, who is now VP of Product at the world’s most popular cryptocurrency portfolio tracker
- Discover the aerospace startup world through the eyes of a business development director partnering with JPL, Boeing, United, Northrop Grumman and other major companies
- Explore the entertainment industry from the perspective of an innovator who started out with a technical degree

Experience LA’s tech culture through company visits:

- Discover tech that benefits humanity at XPRIZE Foundation, a nonprofit that organizes public competitions to encourage meaningful, innovative, and unifying technological developments.

Ready to jumpstart your career in tech?

Enroll Now

To learn more, visit the Technology Leadership Summer Institute website. If you have any questions, please email Jaymie Park at jaymie.park@anderson.ucla.edu.
7. Fall 2019 TA Openings

a. Human Rights TAs

The Department of Religious Studies is advertising Teaching Assistant (TA) positions in Human rights. for Fall 2019 quarter. Introduction to Human Rights and the problems they seek to address. Using key episodes of inhumanity like slavery, genocide, and racism. This course examines how international movements for social justice led to the emergence of the international Human Rights system. TA duties include: attending course lectures, leading two discussion sections each, holding 2 office hours per week, grading student work, other course support as assigned.

Qualifications
Graduate student status: experience/research related to Religious Studies or Human Rights, previous experience teaching or grading

Please contact Prof. Keith Watenpaugh at kwatenpaugh@ucdavis.edu if interested. Include in your email, your resume and teaching experience with evaluations.

b. Religious Studies TA

The Department of Religions Studies is seeking applications for Teaching Assistants.. RST 10, RST 1G and RST 40 for Fall quarter 2019 will have openings. Applicants must attend the Center for Educational Effectiveness (CEE) orientation in September, if not completed before.

For THE ONLINE APPLICATION, PLEASE VISIT: https://langlit.ucdavis.edu/forms/ta-application

Qualifications
• Appropriate professional degree [minimum requirement is Masters
• Evidence of teaching excellence and TA experience.
• A developing record of scholarly or professional achievement in an area of expertise related to Religious Studies

How to Apply: https://langlit.ucdavis.edu/forms/ta-application

c. Spanish TA Position
The department of Spanish & Portuguese is seeking Graduate Student instructors for Elementary Spanish (1-3) for the 2019-2020 academic year. Each position is 50% time for a class that meets 5 days per week for 50 minutes per day. Additionally, the instructor will hold 2 office hours per week in Sproul Hall. Students interested in a position for fall, winter, or spring must take SPA 390 (a pedagogy class) during fall quarter. It is not offered during winter or spring.

Apply at: https://langlit.ucdavis.edu/forms/ta-application

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