Engineering Systems Management Support for Agriculture
The Weekly Newsletter for the BioResource and Agriculture Engineering Department

Week 8 ~ November 12th, 2019

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<td>11 VETERANS DAY NO CLASSES</td>
<td>12 CAFES Council 5pm-6pm Tractor Pull 6pm-7pm 8-122</td>
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<td>14 AES Barbecue BRAE Ramp PAC 6pm-7pm Grow Crew 11am-12pm Lab 4 Innovation Quest Info Session</td>
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**Thanksgiving Break No School**
Kyle Gourley

Kyle Gourley is a Freshmen ASM Student in the Cal Poly BRAE Department. On a field trip with Dr. Schwartz, Kyle stepped up to help the class in a time of need. In Salinas, the van’s battery died, and Kyle took the initiative to call in help from his hometown. Dr. Schwartz called Kyle the “hero to all”. The BRAE department couldn’t be happier to have a student like Kyle with initiative and resourcefulness in the department.
AG 200 & AG 212
Leadership Practice: Poly Royal Rodeo

Help plan the nation’s largest college rodeo by working as team members on committees!

Terms typically offered:
AG 200 - W - credit/no credit
AG 212 - S - 3 units
Instructor permission and application required
$30,000 IN CASH PRIZES!

Innovation Quest 2020

Calling ALL Cal Poly Innovators! It’s time to shift into gear for Innovation Quest 2020. Perfect your craft, bring your inventions out of the lab and into the market, and demonstrate the hustle, creativity and prototyping that define the CIE’s Innovation Quest Competition. At the end of the road awaits thousands of dollars in prizes to help you take your innovation to the next level.

*1st Info Session
Thursday, Nov. 14

*2nd Info Session
Tuesday, Jan. 28

*3rd Info Session
Thursday, March 5

*All meetings at 6 p.m.
Bldg. 2, Room 210

Sponsored by:

Apply by Friday, March 20 @ 11:59 p.m. @ http://bit.ly/iQ2020
2019 MCAA ASHRAE COMPETITION

COMPETE FOR THE 2019 MAC AWARD AND CASH PRIZES!

NOV 16-17, 2019
CAL POLY,
SAN LUIS OBISPO

Project will consist of designing an indoor plant grow room. Students will apply HVAC design concepts to control the grow room environment while optimizing energy usage through equipment selection and using renewable energy sources to achieve NET-ZERO

Join us November 15th for a student mixer!

Sign up here!
CAFES Research Seminar Series

Fall Quarter 2019

Please join CAFES for our Research Seminar Series ~ Fridays this Fall
Pizza will be served!

Erhart Agriculture Bldg. 10, Room 206 12:10 - 1:00 p.m.

- Physiological Reaction to Odorants: Carmen Licon, Dept. of Food Science and Nutrition, Fresno State (09/27)
- Dairy Waste Management Research: Tryg Lundquist, Dept. of Civil and Environmental Engineering, Cal Poly, SLO (10/4)
- Food Rheology: The Scientific Smushing of Food: Helen Joyner, Dept. of Food Science and Nutrition, Univ. of Idaho (10/11)
- Water and Weather Issues for Central Coast Agriculture: Mark Battany, UC Cooperative Extension (10/18)
- Disentangling the Local and Landscape Determinants of Pests and Pesticides: Ashley Larsen, Bren School of Environmental Science and Management, UCSB (10/25)
- Exploring the Ecological Impacts of a Novel Land Use: Utility Scale Solar Fields: Seeta Sistla, NRES, Cal Poly, SLO (11/1)
- 2018 Annual Crop Statistics for SLO County: Martin Settevendemnie, Agricultural Commissioner, SLO County (11/8)
- Grazing Behavior and Physical Activity Influences on Metabolism and Performance: Zach McFarlane, ASCI, Cal Poly, SLO (11/22)
- Temporal Changes in the Soil Microbiome in Response to Soil Fumigants: Shashika Hewavitharana, HCS & Strawberry Center, Cal Poly, SLO (12/6)

For questions, please call Marnie Perry at 805 756 2161

CAL POLY
College of Agriculture, Food & Environmental Sciences
What is BEACoN Research Mentoring?

BEACoN Research Mentoring is a program funded by the Office of University Diversity and Inclusion that allows underrepresented students and professors to connect and work together with common interest. This is a competitive program in which selected students work with Cal Poly faculty during winter and spring quarters and receive a $1500 stipend for approximately 100 hours of work each quarter. Funding incentivizes participation in our program by our top faculty researchers on campus, and also enables lower socio-economic students to participate. Importantly, in addition to providing students with research opportunities, faculty members provide their student with mentoring and professional development advice to facilitate their success at Cal Poly and beyond.

Starting October 28th, descriptions of the projects and mentors will be available at: beaconmentors.calpoly.edu/faculty-research-projects

How do you apply?

Apply online at tinyurl.com/BEACoNStudentResearch2019 or with the QR code below.

DEADLINE: Tuesday, November 12th at midnight
WHO: Cal Poly BRAE & ASM Major Concentration (all majors welcome)

WHAT: A professional club that promotes experience in industry as well as developing connections with industry professionals

WHEN: Next Meeting will be in December

WHERE: BRAE Lab 1

WHY: To give professional opportunities to Cal Poly students by allowing them to associate with industry professionals as well as another learning outlet to discover the variety of career paths they can take with their major

HOW: By being present and engaged, and enjoying a great BBQ!, Cal Poly Students will have access to more personalized information about their future within the Cal Poly BRAE Department as well as their career following college
Internship and Employment Opportunities

ASM and BRAE students and graduates are in high demand!

Check out [www.brae.calpoly.edu/students/employment](http://www.brae.calpoly.edu/students/employment) for even more postings!

Career Services can help you explore career options, prepare for your internship/job search, connect with employers, and more! Please visit their website for information on the services and resources they provide.

What’s Happening in CAREER SERVICES

FALL 2019

11/18: Change of Major Workshop
The university wide workshop will go over Cal Poly's change of major policy and explore ways to further research your options and next steps.

11/16: Student + Alumni Coffeehouse Mixer
All Cal Poly students and alumni are invited to an informal coffeehouse-style mixer where you can network and make new connections!

11/13: Finding Your Fit! 4 Steps to Making Sure You Take the Right Job
In this workshop you will learn how to research your potential employers to see how well you'll fit at the company.
CONNECT WITH EMPLOYERS.

Learn about employment opportunities in agriculture, tech & agtech at the AGTECH JOB & INTERNSHIP FAIR.

11.26.2019
1:00PM-4:00PM

@ the Western Growers Center for Innovation & Technology | 150 Main St. #130, Salinas, CA 93901
free admission; refreshments will be served
questions? contact Emily Lyons at (831) 272-0661
Junior Civil Engineer

CSA is a well-established civil engineering and land surveying firm located in Benicia, California. We specialize in land development, surveying and public works projects.

We have an immediate need for a Junior Civil Engineer. Our office focuses in the design and plan preparation of land development projects of various sizes. Though not required, the ideal candidate will also have some field survey experience with topographic, boundary, and construction surveys. We offer the candidate the opportunity to perform Civil Design and related survey work.

Requirements:

- BS Degree in Civil Engineering
- Demonstrate design and plan preparation: College projects and/or intern work
- Engineer-in-Training (E.I.T.) Registration
- Excellent oral and written communication skills
- Working knowledge of Auto CAD
- Working survey experience
- Detail oriented
- Willing to travel occasionally on overnight projects
- Ability to work independently with direct guidance from principals
- Ability to obtain security and refinery clearances
- Candidates must be legally authorized to work permanently (i.e. without time limitations, without restrictions or without need for work sponsorship)
- Ability to manage time and resources to work effectively
- Physical ability and willing to work in the field

Typical work:

- Grading and Drainage design and drafting of plans
- Subdivision Plans and Maps
- Design of utilities (Water, Sewer and Storm Drain Systems)
- Hydraulic calculations for sewer and storm drain systems
- Boundary (Property Line) calculations
- Metes and Bounds documents
- Survey preparation, topographic surveys, construction staking.
- Client and Public Agency communication and coordination

CSA is a small office where the ability to work as a team member in a dynamic and positive work environment is essential. We work on a broad array of challenging and interesting projects.

The company offers salary commensurate with experience, medical insurance, vacation/holidays, 401K plans with employer contribution.

Send your cover letter and resume to:
Rod Sherry, P.E. (e-mail to: rsherry@csa-engineers.com)
Dan Cullen, P.E. (e-mail to: dcullen@csa-engineers.com)