

THE BRAE WEEKLY

The Weekly Newsletter for the BioResource & Agricultural Engineering Department



WEEK 5~ October 26th, 2016



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the [Cal Poly BRAE](#)
[Facebook Page!](#)

JOBS!
Page 2-5

Calendar
Page 6

BRAE News
Page 7-9

Work Work Work Work Work

Cal Poly BRAE and ASM majors are in high demand! Be sure to continue checking out the job listings on the [Department website](#) to see all possible opportunities awaiting students and graduates!

Company	Title	Location	Type
AgTech Industries	Regional Technical Sales Manger	Northern CA	Full Time
AgTech Industries	Regional Technical Sales Manger	Southern CA	Full Time
AgTech Industries	Warehouse Manger	Salinas, CA	Full Time
AgTech Industries	Sales and Customer Service Manger	Salinas, CA	Full Time
Reclamation District	District Engineer	North Sacramento, CA	Full Time
Reclamation District	Deputy Manager	North Sacramento, CA	Full Time
CHC Hydronics	Application Engineer	Hayward, CA	Full Time
Preston Pipelines Inc.	Construction Project Engineer	Hayward CA	Full Time
Westland Group Inc	Civil Engineer EIT	Santa Clarita CA	Full Time
Coastal San Luis RCD	Agricultral Engineer/ Engineering Technician	Central Coast, CA	Full Time
Farm	Irrigation System Design and Installation	Chile, S.A.	Internship
Central California Irrigation District	Hydro Technician	Los Banos, CA	Full Time
Kubota	Compliance Engineer	Grapevine, TX	Full Time
Fresno Irrigation District	Engineering Technician	Fresno, CA	Full Time
ABC- Almond Board of California	Manager, Irrigation, and Water Efficiency		Full Time
4Creeks	Engineering Technician	Visalia, CA	Full Time

Entry-Level Engineering Technician

Job Location: Visalia, CA

Entry-Level Engineering Technician Responsibilities:

4Creeks is seeking an entry-level Engineering Technician to work under the direction of a Project Engineer or Manager on our Ag/Water team. Responsibilities for this position would include preparing calculations, assist with preparing technical reports, technical exhibits, production drawings for subdivisions, and design drawings. Other responsibilities include drafting topographic surveys, preparing plans, spreadsheet calculations, technical report writing, and site visits and documentation of site conditions for typical civil engineering projects. This position will primarily entail office work.

Entry-Level Engineering Technician Qualifications:

1. The position requires a B.S. in Civil Engineering or related field, with an emphasis on Agricultural or Water engineering,
2. Minimum of 1-2 years of experience working in Ag / Water related field.
3. The ideal candidate will have working knowledge in preparation of plans, engineering design for various engineering projects, an Engineer-In-Training Certificate and exceptional written and oral communication skills.
4. Experience using AutoCAD (version 2009 or higher, Civil 3D preferred) is required.
5. Additionally, experience with Microsoft Office, including Word and Excel is required.

Other Key Qualifications:

1. Technical, but socially acceptable. A nerd with a hint of personality.
2. Dream of helping the ag industry solve key issues related to water management.
3. You own a pair of boots that actually have manure on them.
4. You have a passion for agriculture, but don't see yourself plowing a field.

Compensation:

Salary will be determined by candidate's skill and experience level and highly competitive with industry standards. Benefits package includes full employee health coverage (50% coverage for dependents), 401(k) match, and performance bonuses.

About 4Creeks:

We call ourselves 4Creeks, named after the region in Central California where we were founded. Much like the place of our roots we embody an ethos of determination, hard-work, and ingenuity. In all our efforts, we dedicate ourselves to providing progressive and logical solutions through thoughtful design. 4Creeks, Inc. houses 6 Core Disciplines under one roof, so whatever our clients need we find a solution for them. Many of our services and resources were born out of a solution developed to meet a client need.

We have a staff of 37 full-time and part-time employees working in California and Nevada and offices in Visalia, Porterville, and San Luis Obispo. Our team at 4Creeks is dynamic, collaborative and fun. We enjoy working together and pooling our resources to provide the best solution available. A team based approach is our standard. From the moment you walk through our entrance it becomes obvious we operate and hold team members to a high level of standard while still enjoying one another and our work.

How to Apply:

For immediate consideration; please email your detailed resume and a cover letter sharing your professional background, skills, and experience to danielle@4-creeks.com. Our Human Resource Administrator will contact you promptly for initial interview coordination.

US Department of Homeland Security

Now accepting applications for

U.S. Department of Homeland Security (DHS)
2017 HS-STEM Summer Internships



The U.S. Department of Homeland Security (DHS) Science and Technology Directorate Office of University Programs sponsors a 10-week summer internship program for students majoring in homeland security related science, technology, engineering and mathematics (HS-STEM) disciplines. The program provides students with quality research experiences at federal research facilities located across the country and allows students the opportunity to establish connections with DHS professionals. It is open to undergraduate and graduate students in a broad spectrum of HS-STEM disciplines and DHS mission-relevant Research Areas.

Undergraduate students receive a \$6,000 stipend plus travel expenses.

Graduate students receive a \$7,000 stipend plus travel expenses.

10-week research experiences are offered at: Coast Guard Research and Development Center, Customs and Borders Protection, Engineer Research and Development Center, Federal Emergency Management Agency, Immigration and Customs Enforcement, Health Service Corps, National Security Technologies, National Urban Security Technology Laboratory, Naval Research Laboratory, Office for Interoperability and Compatibility, Transportation Security Laboratory, DOE National Laboratories: Argonne, Berkeley, Idaho, Livermore, Los Alamos, Oak Ridge, Pacific Northwest, and Sandia

Areas of research: Engineering, computer science, mathematics, physics, chemistry, biological / life sciences, environmental science, emergency and incident management, social sciences, and more.

U.S. citizenship required

Application deadline: December 7, 2016, 11:59PM EST

How to Apply: Applications and supporting materials must be submitted at <https://www.zintellect.com/Posting/Details/2595>

To See a list of all projects, click [here](#).

October and November Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
23	24 EWB Project Meeting 7:00PM Construction and Innovation Center	25 Tractor Pull Team Meeting 7PM 8-122	26 AES Pass Party 6:30-8:30 Lab 4 EWB General Meeting 6:00PM 52-E27	27 AES BBQ 11AM-12PM \$5 BRAE RAMP Precision Ag and Automation Club Meeting (PAAC) 6:10-7:50 8-122	28 AES Quarterly Activity 7:30-9:00 BRAE Ramp	29
30	31 HALLOWEEN EWB Project Meeting 7:00PM Construction and Innovation Center	1	2 AES Second General Meeting PM BRAE Lab 4	3 AES BBQ 11AM-12PM \$5 BRAE RAMP Precision Ag and Automation Club Meeting (PAAC) 6:10-7:50 8-122	4	5
6	7 EWB Project Meeting 7:00PM Construction and Innovation Center	8 Tractor Pull Team Meeting 7PM 8-122	9 EWB General Meeting 6:00PM 52-E27	10 AES BBQ 11AM-12PM \$5 BRAE RAMP Precision Ag and Automation Club Meeting (PAAC) 6:10-7:50 8-122	11 Veterans Day (No Class)	12
13	14 EWB Project Meeting 7:00PM Construction and Innovation Center	15	16	17 AES BBQ 11AM-12PM \$5 BRAE RAMP Precision Ag and Automation Club Meeting (PAAC) 6:10-7:50 8-122 Farm City Night	18	19
20	21 EWB Project Meeting 7:00PM Construction and Innovation Center	22	23	24 AES BBQ 11AM-12PM \$5 BRAE RAMP Precision Ag and Automation Club Meeting (PAAC) 6:10-7:50 8-122	25	26

BRAE News and Events

Agricultural Engineering Society

Hello All!

College is the time to get out and explore and meet new people, don't miss out on the opportunities below to do just that!

The Ag. Engineering Society is always up to something and we want YOU to come experience it with us. Please see below for a full list of AES sponsored events coming to campus soon.

You can also check the Events section of the AES Facebook page (just search @Ag.Engr.Society or [Agricultural Engineering Society - Cal Poly, SLO](#)) to make sure you stay up-to-date.

Wednesday, 10/26

PASS Party!, 6:30 p.m. - 8:30 p.m., Building 8A, Lab 4

Come learn how to use PASS and the Cal Poly registration system. Get advice from older BRAE department students on what classes to take and which professors to take them with. Have class from 6:00 - 8:00? No worries! We will be sticking around and helping those students who come after their 8:00 p.m. classes. There will be FREE PIZZA!

Thursday, 10/27

First Precision Ag. and Automation Club Meeting, 6:10 p.m. - 7:50 p.m., Building 8, Room 122

This is the first weekly meeting of the PAAC where they will be holding a workshop on Arduino Programming Basics (programming and simulation) -1. Join us for knowledge and pizza!

Friday, 10/28

AES Fall Quarterly Activity, 7:30 p.m. - 9:00 p.m., Meet on BRAE Ramp

Do you like corn? Do you like mazes? Do you like meeting new people in your major/department? Well then this is the activity for you! We will be meeting on the BRAE Ramp at 7:30 p.m. to coordinate rides to the Brookshire Farms Corn Maze in Los Osos where we will enjoy a night of FRIGHT!

Wednesday, 11/2

Second AES General Meeting, 6:10 p.m. - 8:00 p.m., Building 8A, Lab 4

Do you want to be involved at Cal Poly and in planning all the exciting things you see above? Does a full non-campus meal sound good to you? Are you interested in learning more about how they build large-scale military vehicles? If you answered yes to any of these questions come to Lab 4 at 6:00 p.m. on Wednesday for the Second General Meeting of the Ag. Engineering Society.

As you can see, there is a lot going on this week and we would love to see you there! As always, if you have any questions about event details or the Ag. Engineering Society please feel free to contact us at ag-engineering-society@calpoly.edu.

Warm Regards,

Stacie Ann Silva
Agricultural Engineering Society President

Week 5

General Announcements

Please give us some feedback about our club by filling out [this](#) Beginning of the Year Survey!

For New Members: Stay in the loop by joining our email list on our [website](#) and our Facebook [group](#)! Membership costs \$20 for freshmen and \$25 for everyone else. You get this year's awesome t-shirt! Just come to one of our events and let an officer know you're interested in joining!

We are still selling EWB tank tops for \$15 and hats for \$20!

Have more questions? Check out our EWB [FAQ's](#)!

Check out our google calendar [here](#)!

1. Project Meetings are every Monday 7pm!

Here are the team room locations:

- 2-204 - Nicaragua
- 20-140 - Thailand
- 186-c101 - Malawi
- 186-c201 - India
- 186-c300 - Local Projects

Ultimate Frisbee every Monday at 9pm (after project meetings)! You must wear your new EWB shirt to be able to play! No experience is required.

2. IMPACT meets every Tuesday at 6:30 pm at one of the Library 2nd floor fishbowls. Come by if you want to make a difference locally by volunteering in SLO!

3. Learn about EWB's Thailand and Nicaragua teams at our General Meeting Wednesday at 6 pm! Everyone is invited. We will be meeting in Building 52-E27 (across Lucy's).

4. Join EWB as we go to Farmer's. We will be meeting at the corner of Higuera and Morro (by Victoria's secret and Urbane Café) at 6:30 pm! Don't forget to bring cash for food!

Note: If you live on campus take the 4a/b or 6b to get downtown. The 5a/b will bring you back to campus. Buses stop running at 9. Use the SLO Transit App for times. If you do not live on campus and need a ride, please email Erika at ehanse02@calpoly.edu for rides.

5. EWB Tea Time is every Friday 11-1pm at the 2nd floor of the Library. Come chat and enjoy some tea with President Dan and VP Beth!

6. EWB Olympics (11/13) is 3 weeks away! It will be from 1-4 PM at the upper sports complex fields. There will be something for everyone, including sports and trivia. We will be providing Woodstock's pizza. It will be \$5 to attend. If you are interested, please fill out this form. More information will be sent out soon.

CAFES Update

Please join us on Thursday, November 3 at 11:00 a.m. for a special presentation by Dr. Merle Jensen entitled “Controlled Environment Agriculture: An Agricultural Revolution.” Lunch will be provided.

Dr. Jensen is one of America’s leading agricultural scientists on the subject of controlled environment agriculture. He has published nearly 100 research and technical articles, and has been featured in such publications as the New York Times, Chicago Tribune, Farm Journal, National Geographic, People, Time-Life books, Life Magazine and many more. Dr. Jensen is a graduate of Cal Poly, Cornell and Rutgers Universities.

Please bring a friend!

Date: Thursday, November 3

Time: 11:00 a.m.

Location: Bldg. 11-104

Lunch will be provided for those who RSVP. Please email kgolin@calpoly.edu if you plan on attending.