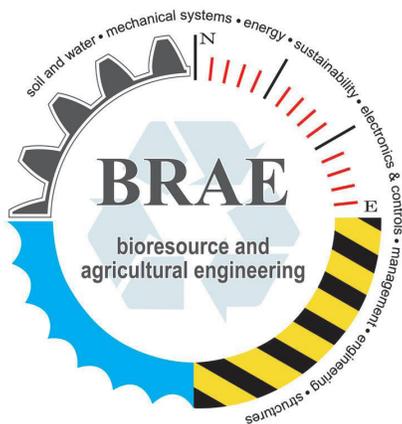


THE BRAE WEEKLY

The Weekly Newsletter for the BioResource & Agricultural Engineering Department



WEEK 4~ February 1st, 2017



Society of Women Engineers

Several BRAE majors attended the Society of Women Engineers Evening with the Industry last Thursday, January 26th at the Avila Beach Golf Resort.

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Evening with the Industry

The Cal Poly Society of Women Engineers (SWE) gathered last Thursday for the annual Evening with the Industry at the Avila Beach Golf Resort.

Each year, the Cal Poly club organizes an Evening with Industry (EWI). The first hour of the social focused upon networking, allowing all student and industry attendees to mill about, discuss careers, and break the ice.

Sarah Atmadja, is a junior BioResource and Agricultural Engineer major was just one of the many BRAE department students in attendance. “EWI is an event where both women, and men, in the Cal Poly engineering programs are invited to mingle with various industry representatives looking to recruit interns and full-time employees.”

Following the networking sessions, the event transferred to dinner, featuring keynote speaker Jen Overgaag.

Overgaag, a Computer Engineering graduate and former SWE member was the Cal Poly Engineering Most Outstanding Graduating Senior in 2006 as well as the SWE Outstanding Woman in Engineering. Overgaag now serves on the Computer Engineering Advisory Board along with a successful career specializing in Cisco R&S network design and implementation, campus and long range wireless network design and implementation, and sustainable technology solutions in diverse and challenging environments.

Soojin Park, a sophomore BRAE major said, “she [Overgaag] reminded everyone in attendance of the importance of our hard work. Whether we find ourselves in careers that allow us to directly see the impact of our work or not, engineers should always remember that the work they do has the power to impact the lives of others.”

“I got the chance to sit with the engineering manager of Sunrun, the second largest solar company in the nation,” Park continued. “We discussed the consequences of time, of use, and how solar energy can be a solution. I learned about the Hawaiian laws that forbid the connecting of solar panels to the energy grid and how Sunrun has used batteries at each residence to store any extra energy that the solar panels make. EWI was an event that I personally grew from and is a resource that everyone should take advantage of next year!”

The night ended with recognition of Cal Poly’s individual students, especially the “rare women in engineering” said Atmadja. The event “inspires one to go out and get as involved as possible in the community and clubs around us.”

The 37 companies in attendance also included: Abott, Amazon, Chevron, General Automatics, Mazzareti, Microsoft and The Boeing Company.



The Cal Poly Society of Women Engineers 2015 Evening with the Industry. Photo Courtesy of the CP SWE Facebook Page.

January & February Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	31	1 AES General Meeting Lab 1	2 AES BBQ 11AM-12PM @BRAE RAMP PAAC Meeting 6:10-7:50 8-122	3	4
5	6	7	8	9 AES BBQ 11AM-12PM @BRAE RAMP PAAC Meeting 6:10-7:50 8-122	10	11
12	13	14	15	16 AES BBQ 11AM-12PM @BRAE RAMP PAAC Meeting 6:10-7:50 8-122	17	18
19	20 Presidents Day-No School	21 Follows Monday Schedule	22	23 AES BBQ 11AM-12PM @BRAE RAMP PAAC Meeting 6:10-7:50 8-122	24	25
26	27	28	1 AES General Meeting Lab 1	2 AES BBQ 11AM-12PM @BRAE RAMP PAAC Meeting 6:10-7:50 8-122	3	4

BRAE News and Events

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Precision Ag and Automation Club Meeting (PAAC)

Can you believe it, it's already week 4! PAAC meets this Thursday to continue working with robotics. Come with a hungry stomach and willingness to learn robotics and Arduino Programming!

Engineers Without Borders (EWB)

Week 4

For New Members

Stay in the loop by joining our email list on this form 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 also selling EWB tank tops for \$15 and hats for \$20!

Have more questions? Check out our EWB FAQ's!

Events

1. Mon- Smartphones4Water Talk, Sustainability Task Force, Project Meetings
2. Tue- IMPACT Meeting
3. Wed- Joint General Meeting with SCE and Cannon Corporation
4. Fri- IMPACT (Thru Sun), EWB Tea Time
5. Sun- Intramural Soccer!
6. Next Fri- Montana De Oro Camping Trip

Check out our google calendar here!

1. Listen to Cal Poly Alumni Jeff Davids talk about his project SmartPhones4Water that uses smartphones and community empowerment to collect hydrologic data in developing communities. Citizen science is a new field that's expanding the boundaries of science by using technology to get more people involved. The presentation will be in Building 26-103 from 7-8.

Sustainability Task Force is a new group seeking to enhance Cal Poly's EWB Chapter. Through working on projects related to social, economic, cross-generational and environmental sustainability, we want to ensure that our chapter is fulfilling its purpose of "equipping leaders to solve some of the world's most pressing challenges". The STF meets at 6pm on Mondays in Building 53, room 202 (India Room).

Project Meetings are every Monday 7pm!

Here are the team room locations:

10-227 Nicaragua
 33-287 Thailand
 53-202 India
 53-206 Malawi
 53-213 Local Projects

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. Join us as we have a joint meeting with SCE Wednesday 6:45-8 pm in the ATL! The meeting will feature Cannon Corporation. Cannon will present on their Well Worth It campaign, types of projects, work-life opportunities, and team culture. Enjoy free pizza and meet fellow SCE/EWB members! We hope to see you there! #SCEWB

4. IMPACT, our annual volunteer event, is HERE! In the spirit of helping others and making a change for the better, EWB works to improve the connection between Cal Poly and the rest of the community through beneficial community service projects. IMPACT runs from Friday through Sunday with many organizations to volunteer for including SLO Bike Kitchen and One Cool Earth. Sign up for an event here!

EWB Tea Time is every Friday 10-12pm at the 2nd floor of the Library facing the front, near the bookshelves. Come chat and enjoy some tea with President Dan, VP Beth, and the occasional officer!

5. Intramural Soccer is every Sunday at the turf fields from 5:30-6:30 pm. Come play soccer with your EWB friends! In order to play, please bring a white shirt and black shirt!

6. Join us as we camp in and enjoy the beautiful Montana de Oro! We will be camping Friday, February 10. If you are interested in attending, please fill out the interest form here by this Friday so we can get an estimate of people and equipment.

Opportunities

Interested in studying abroad? Take a class with Professor Karen Bangs from Industrial and Manufacturing Engineering (IME), in Bilbao, Spain during July of 2017. Karen will be teaching an Operations Management course (Quality Management, Lean Systems, Product & Service Design, Project Management and a few other topics). This course can fulfill a technical elective requirement for you (if you're ME with general & MfgE concentration, MATE, ENVE, BMED, GENE, COB-IT, MfgE). Contact Karen atkrbangs@calpoly.edu, or stop by her office in 192-229. You can also visit Cal Poly International Programs on-line or at their office (<http://abroad.calpoly.edu/> or 38-145). Check out the flyers here and here.

The University of Colorado Boulder's Mortenson Center in Engineering for Developing Communities is hosting its annual Colorado Water, Sanitation and Hygiene Symposium in beautiful Boulder this March 7-8, 2017. Registration is FREE. Rumor has it we've got a bunch of Cal Poly grads in Boulder who's couch you can crash on :). Email Katie Chambers (Katherine.G.Chambers@colorado.edu) or check out their website (<http://www.colorado.edu/washsymposium/>) for more details if you're interested.



FARM BUREAU SAN DIEGO COUNTY

1670 East Valley Parkway, Escondido CA 92027-2409

Phone: (760) 745-3023 • Fax: (760) 489-6348

E-mail: sdcfb@sdfarmbureau.org • Website: www.sdfarmbureau.org

January 23, 2017

The Farm Bureau of San Diego County is pleased to announce its 2017 scholarship program. Through the generosity of San Diego County farmers, ranchers, and nursery operators, over \$289,650 has been awarded to 277 deserving students since the program's inception in 1999.

In order to award these scholarships, we need your help reaching qualified students. Eligibility requirements are as follows:

- Student is entering or attending a two-year or four-year college or university;
- Student is pursuing a course of study in agriculture or a closely related field; and
- Student has a permanent residence in San Diego County.

Please assist us by making the enclosed scholarship application available to agriculture students at your school. This application can also be downloaded from our website at www.sdfarmbureau.org. We invite you to link to our website and/or make hard copies available to your students.

Scholarship awards have ranged from a minimum of \$500 up to \$5,000 in past years. Funds awarded in 2017 must be applied to the 2017-2018 academic year. Completed applications must be **postmarked by April 3, 2017**.

Thank you for your assistance!

Sincerely,

A handwritten signature in black ink that reads "Kathryn Rathbun".

Kathryn Rathbun
Program Coordinator

JOB: INDUSTRIAL TECHNICIAN MANAGER

LOCATION: FOWLER, CA



JOB DESCRIPTION

Bee Sweet Citrus, Inc. – (Fowler, CA) is seeking a highly motivated, organized individual with a technical and electrical background for the position of Industrial Technician Manager. This position involves the management of various pieces of packing and sorting equipment used at Bee Sweet Citrus. Bee Sweet Citrus has many pieces of state of the art equipment involved in all parts of the processing and packing fresh citrus. These pieces of equipment include advanced optical sizers and graders, weighing machines for bagging operations, and many different types of bagging machines.

The job responsibilities of this position include, managing a team of technicians in the maintenance of the equipment, ordering parts to keep up with the spare parts inventory for the machines, and communicate with production to fix any issues with the efficiency of the equipment. Other aspects of the job involve being active in preventative maintenance programs and applying these programs to make the equipment run more effectively with minimal downtime.

The position is full-time, year-round salaried with benefits. Experience managing people is a must, along with basic computer knowledge. Experience in the agricultural food packing/processing industry is preferred. Spanish-speaking is a plus.

EXPERIENCE

- Bachelor's degree required

SKILLS & TECHNICAL KNOWLEDGE

- Understanding of electrical control circuits and PLC applications
- Know how to read electrical schematic diagrams
- Knowledge of different types of sensors, such as: photo eyes, proximity switches, encoders, etc.
- Understanding of pneumatic system components and design
- Understanding of basic operation of electrical motors (3 Phase) and gearboxes
- Must be able to work well with computers
- Be able to order parts based on the equipment's service and parts manual
- Be able to work effectively within a team
- Be willing to learn new aspects in automation and technology
- Bilingual (English/Spanish preferred)
- Must have basic computer skills and know how to use Microsoft Word, Excel, and Outlook

PHYSICAL REQUIREMENTS

The physical demands listed below are characteristic of those that must be met in order to successfully perform the functions of this position.

- Ability to work in a hot, cold, and/or wet environment up to 98% of the time on the job
- Ability to walk, sit, stand and use hands to finger dexterity, handle, or feel objects
- Ability to reach with hands and arms, climb stairs, balance, stoop, kneel, crouch
- Ability to lift and/or move up to 50 pounds
- Vision abilities required by the job include close vision, distance vision, color vision, depth perception, and the ability to adjust focus
- Must have own car and be able to travel locally

ENVIRONMENTAL CONDITIONS

- Works indoors and/or outdoors in areas which may be cold, drafty, damp or hot
- Work is performed in close quarters in storage areas or bin aisles, ramps, or on platforms

Competitive salary and benefits package offered.

Equal Employment Opportunity Employer





Description

PPIC's summer intern program provides an opportunity for undergraduate and graduate students interested in a public policy career to work in a policy research environment. Intern projects are proposed by PPIC researchers and designed around a specific set of tasks and deliverables that can be accomplished within the term of the internship. This internship is funded by the S. D. Bechtel, Jr. Foundation.

For full consideration, complete your application by February 6, 2017. We expect to make our selection decisions for these projects by late March. No phone calls, please.

Project Directors

Ellen Hanak, Alvar Escrivá-Bou, and Caitrin Chappelle

Project Summary

This interdisciplinary project, involving experts from PPIC and its research network, aims to conduct an integrated synthesis and assessment of how California's water management systems functioned during the drought, including efforts to reduce negative economic, social and environmental impacts. As part of this effort, we are working on highlighting management successes and challenges for California utilities, including the relation between the water and energy sectors during droughts, and the effects of water scarcity on water quality.

Responsibilities

The intern would work with the team on gathering and organizing data on various topics to inform research on alternative approaches to managing drought, particularly in light of climate change. This project could include working with large datasets, designing and implementing surveys, and participating in interviews and workshops with relevant stakeholders and decision makers. The intern will also prepare and conduct a presentation summarizing this work to PPIC staff in San Francisco. We are looking to hire up to two interns for this project.

Qualifications

The intern for this project should have:

Training in economics, environmental sciences and engineering, public policy, or a related field

Strong analytical and organizational skills

Experience mining qualitative and quantitative data

Excellent written and verbal communication skills

Ability to work independently as well as seek feedback and direction when appropriate

Interest in California water policy

PPIC values the wide variety of backgrounds and experiences of our research staff, and key elements in the consideration of qualified candidates include excellence; diversity of talents, backgrounds, and viewpoints; and a strong fit with the institute's mission, values, and goals.

The Research Environment

Interns are offered the opportunity to participate in the collegial atmosphere of PPIC through daily interaction with all aspects of the institution. They are invited to join the research staff in their regular meetings and to attend PPIC's outside events, including the institute's public affairs programs and research briefings. PPIC offers access to the Institute of Governmental Sciences library at the University of California, Berkeley, allowing interns to work with many important databases, journals, and statistical datasets. The intern program also includes a Sacramento orientation, with a tour of the state capitol and a discussion of California state policy by PPIC's government affairs staff.

Each intern's project will include an initial meeting with research staff, evaluation and feedback at the beginning, midpoint and end of the project, and a briefing by the intern on the goals, findings, and significance of the project. Interns are encouraged to discuss their work throughout the course of the project, to meet with research staff to discuss careers in research, and to meet with communications staff to learn about outreach and building an audience of policymakers.

Location, Compensation, and Time on Project

This summer internship is located in PPIC's San Francisco office. Compensation is \$17.50 per hour. This fulltime internship will last up to twelve weeks, ideally beginning June 5, 2017.

To Apply

In addition to filling out this application, copy and paste a cover letter highlighting the particular skills you bring to the project and describing how this internship would contribute to your career development, and attach your resume including grade point average and references. The resume attachment can be in either MS Word or PDF format.

As an Equal Opportunity and Affirmative Action employer, PPIC is committed to excellence through diversity. We encourage women and members of minority groups to apply.



Position available immediately in Castroville, CA.

Inside sales/warehouse management

Job Duties:

- Inside Sales
 - Handling all walk-in business as well as potential cold calling
- Answering Phones
- Shipping/Receiving
- Processing all Sales Orders/Job for Sales Team
 - Ordering, Pulling, Estimating Time Lines, etc
- Placing all Stocking Orders
- Follow-up on all Vendor Orders
- Keeping Store and Warehouse Clean and Organized
- Be a Large Part of Store Safety Team
- Other Tasks as Assigned

Requirements:

- Knowledge of Irrigation Systems
- Computer Skills
- High Attention to Detail
- Self-Starter
- Organized
- Ideally Bi-lingual in Spanish and English

Please contact Cassandra Durler for more information and how to apply. Call her at (805) 804-4969 or email: cdurler@idcsupply.com



2337 Technology Parkway, Suite C
 Hollister, California 95023
 Phone: (831) 637-4360, ext. 101
 Fax: (831) 636-7643
www.rcdsanbenito.org

EMPLOYMENT OPPORTUNITY: Irrigation Evaluation

Application Deadline: Open until filled

San Benito Resource Conservation District is seeking applications for a highly motivated, self-directed and enthusiastic Irrigation Evaluation Specialist to oversee all aspects Irrigation Evaluations.

Background and Summary: The San Benito Resource Conservation District (RCD) is a special district committed to providing non-regulatory leadership for the conservation, restoration, and/or development of land, water, and related natural resources of San Benito & Santa Clara Co. Ongoing projects promote natural resource conservation in relation to farming and ranching operations and other resource issues that affect our community. The RCD is entirely grant funded with programs focusing on habitat restoration, water quality protection, water conservation, and education for county residents including youth.

The District Office Manager reports to a 5-member Board of Directors (Board) and assists the Board in the development and execution of District programs and policies. The RCD and its contractors work closely with the United States Department of Agriculture's Natural Resources Conservation Service (NRCS).

Candidates need to embrace, support and achieve the mission of the RCD, by managing all day-to-day administrative and field visit activities as described below.

Duties and Responsibilities include:

- Conduct field visits
 - Conduct Irrigation Evaluations
 - Maintain all business files
 - Attend monthly Board meetings
 - Maintain and enhance the RCD Board's working relationships with appropriate officials at the local, county, state,
 - Participate in community outreach as directed
 - Other duties as assigned. This position works independently of direct day-to-day supervision.
 - Policy and program direction are received from the District Board through the Board President
- Complete and submit invoices and reports