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

Week 5~ February 3rd, 2020

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**February Calendar**

- **2 February**: CAFES Council 5pm-6pm
- **3 February**: AES General Meeting 6pm BRAE Lab 1
- **4 February**: AES Barbecue BRAE Ramp 11-12 AES Career Fair 2020
- **5 February**: 6
- **6 February**: 7
- **7 February**: 8 BRAE Banquet Workshop BRAE Labs 9am
- **9 February**: 9
- **10 February**: 10
- **11 February**: 11 World AG Expo Cal Poly Day
- **12 February**: 12 AES Barbecue BRAE Ramp 11-12
- **13 February**: 13
- **14 February**: 14
- **15 February**: 15
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- **18 February**: 18 CAFES Council 5pm-6pm
- **19 February**: 19
- **20 February**: 20 AES Barbecue BRAE Ramp 11-12
- **21 February**: 21
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- **25 February**: 25
- **26 February**: 26
- **27 February**: 27 AES Barbecue BRAE Ramp 11-12
- **28 February**: 28
- **29 February**: 29
Sarah Alford is a BRAE department lab instructor. She teaches the lab activities for Principles of Irrigation (BRAE 236), Hydraulics (BRAE 312), and Irrigation Water Management (BRAE 340). She enjoys getting the opportunity to get to know her students during class and feels that the BRAE students are the best part of the department. She is a BRAE graduate and is happy to still be involved in the department.

Sarah also participates in engineering work with the ITRC. She’s worked on various projects, including multiple flow measurement projects. This summer she spent time in Yerington, Nevada with Dr. Styles and two students taking current meter measurements. The group took measurements at over 30 sites throughout the summer. Another project she’s worked on included testing non-contact flow meters. Non-contact flow meters are mounted above the water’s surface and differ from other styles of flow meters because they don’t make direct contact with the water. Sarah has tested different models of non-contact flow meters on campus and helped install them at water districts for further testing.

When Sarah’s not on campus she’s usually busy working on her family’s ranch. Sarah is responsible for managing the beef cattle herd. While the cattle operation keeps her occupied throughout the whole year, she especially looks forward to the fall when the cows are calving. In addition, she also helps with operations related to crop production. This includes tasks such as ground preparation, planting and harvesting, irrigation, and equipment maintenance.
**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 Monthly Meeting: February 5th, 2020

**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
AES
Career Fair 2020
Current Company List & Growing

Wonderful Pistachios & Almonds
E. & J. Gallo Winery
AIM
Lyles Utility Construction LLC
Goodfellow Bros.
HCL Machine Works, INC.
USDA Natural Resources Conservation Service
Ochard Machinery Corporation
Semitropic Water Storage District
Teach Ag California
Andros Engineering
Hartman Engineering
Baloian Farms
Heinzen
4 Creeks
Pacific Ag Rentals
GEI Consultants
Sensient Natural Ingredients LLC

Stockton East Water District
Granite Construction
Speedling Nurseries
Willitts Pump
YCFCWCD
Topcon
Nichols Farms
Preston Pipelines
Priva
GeoVisual Analytics
Fresno Irrigation District
IDC Precision Irrigation
Guntert & Zimmerman
Cal Portland
Cannon
Peace Corps
Kiewit
U.S. Irrigation
JG Boswell
Thanks for showing interest in PAAC!

Weekly General Meetings

Come find out what projects we're working on this quarter!

Weekly meetings take place on **Thursdays at 11AM**, in **Building 8A Lab 4**.

As always, feel free to email paac@calpoly.edu with any questions.
BRAE is offering FREE Tutoring

Standard Tutoring Times:
Monday, Wed, Fri from 6pm to 9pm.
Tuesday-Thursday from 2pm to 5pm.
Saturday from 1pm to 5pm.

Additional times by appointment
I may not be on campus if nobody requested my presence as this is technically a 10 hour a week job (not 19), but will come immediately if you send an email or give a call. I have so many hours that I keep open because I want to help as many of you as possible. Its good to RSVP and let me know what you want to study and when. If the material is digital, send me a copy; if its a physical book, bring it with you.

Classes offered: Calculus, Physics, Statics, Statistics, Chemistry, Dynamics

CONTACT
My phone number is 559 940 5215 and will also work for Signal and WhatsApp.
My emails are jwoodrin@calpoly.edu and woodring.josh94@gmail.com

Josh Woodring
Internship and Employment Opportunities

ASM and BRAE students and graduates are in high demand!

Check out 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 Winter 2020

2/5: Camp Natoma University Information Table
Camp Natoma is hosting an informational/recruitment event for summer job opportunities.

2/5: Navigating Your Internship or Job Search
Learn some tips and tricks about how to navigate the often times muddy waters of a job search.

2/5: Student + Alumni Mixer in SLO
Join Career Services and Alumni Relations at an informal networking event in downtown San Luis Obispo!

2/4: Resume & Cover Letter Office Hours
Drop by the second floor of the library anytime between 6:00 - 7:00 PM to have your resume or cover letter reviewed by Career Services!

2/4: Negotiating Offers and Salaries
Engaging in conversations about salary, benefits and other aspects of compensation can be nerve wracking. Come learn how to negotiate effectively!

2/4: Change of Major Workshop
Considering changing your major? Come to this info session and learn about the change of major process and tools you can use to your advantage.

2/3: Meet with Palo Alto Networks
Come to this session and hear from professionals about opportunities available with Palo Alto Networks!
Join our Agriculture, Construction, or Positioning Team

topconpositioning.com/internship
topconcareers@topcon.com
Build Your Career

Our interns are the future of Topcon! Interns are mentored by the most talented in the industry. Network with executives, directors, managers and other Topcon employees. We have unique opportunities for the brightest and most talented undergrad and graduate students who are enterprising and take charge of their career path. If you are open to new ideas and embrace Topcon’s values of passion, ownership, unity, and achievement- then we want to hear from you!

About Topcon

Topcon’s construction business provides world leading, highly advanced positioning products by incorporating innovative technologies such as leading-edge GPS, laser and image analysis technologies based on the optical technology Topcon has fostered since its beginning.

Topcon’s positioning business is globally expanding high-precision GNSS (Global Navigation Satellite Systems) business, including GNSS surveying, machine control and precision agriculture.

Topcon’s precision agriculture business solutions help farming industry businesses connect their business operations in real time for data-driven profitability and sustainability, by providing cutting edge technology and products.

Career and Internship Opportunities

Topcon has openings in the following disciplines:

- Agriculture Engineering
- Industrial Engineering
- Civil Engineering
- Information Technology
- Computer Science
- Mechanical Engineering
- Construction
- Precision Agriculture
- Geomatics
- Surveying
- GNSS Technology

To Learn More

Meet with Topcon Representatives at the BRAE Career Fair!

February 6, 2020 at the Cal Poly Farm Shop

topconpositioning.com/internship
Job Title: Winegrowing Internship Program 2020 (6 months)

Requisition ID 61742 - Posted 12/04/2019 - Modesto, CA

Why E. & J. Gallo Winery?
Named a Glassdoor “Best Places to Work” three years in a row, we couldn’t be prouder of our company culture. As the largest family-owned winery in the world with over 100+ unique wine and spirits brands, our products are synonymous with life’s special occasions. Come celebrate with us! Your Talent & Gallo | A Perfect Pairing

Interview Process and Timing
Submit an application to be considered for the program.
Once your application is received, you will get a survey link from HR to tell us your placement preferences, based on the areas outlined below. If you are considered, HR will schedule an interview.
If selected for the program, you will receive an offer.
Offer and placement will be based on your preferences, our assessment of where your skills will make you most successful, and business need.

Winegrowing Internship Program – STEM & Agriculture Majors
Imagine what you could do with the industry's most innovative grape growing practices and winemaking technologies at your disposal, while learning first-hand how high quality wines and spirits are produced. Interns work cross-functionally to support the research projects and production practices required to produce nearly 100 million cases of wines and spirits. It won't take long for you to see our passion and expertise for winegrowing, or to experience our culture where innovation and continuous improvement are highly valued. For nearly a century our winegrowing team has walked vineyards, made award winning wines, and advanced cutting-edge technologies, establishing E&J Gallo as the world’s leader in wine and spirit innovation.

Internship Program Overview
Our internship program provides students interested in grape and wine production and research the opportunity to spend five to six months working alongside seasoned professionals at one of our many California production sites. Most internships overlap with our grape harvesting efforts, early/mid-summer through late fall, which provide a fruitful experience for learning and developing. Interns support critical harvest efforts as well as complete and present a project to our Winegrowing Leadership team. Ten different internship opportunities are available in Research, Grape Production, Grower Relations, Winemaking and Spiritsmaking (more details on specific opportunities provided below).

What You Need
Minimum Qualifications
• High school diploma or State-issued equivalency certificate.
• Currently enrolled at a college or university and working towards a Bachelor’s degree or Master’s degree in the school of Life Sciences, Agricultural Sciences, or Engineering.
• Strong applied technical skills and analytical problem-solving skills.
• Good oral and written communication skills.
• Candidates for this position must have a valid driver’s license and a safe driving record. Required to obtain a California driver’s license or appropriate state driver’s license within 30 days of hire.
• Reliable transportation to and from work.
• Required to lift and move up to 40 lbs. when necessary.
• Required to work at heights of 50 feet, on tops of tanks inspecting wine surfaces when necessary.
• Required to be 21 years of age.
• The position requires availability to work evenings, weekends and holidays when necessary.

Preferred Qualifications
• Junior or Senior class standing at a college or university and working towards a Bachelor’s degree in the school of Life Sciences, Agricultural Sciences, or Engineering.
• Excellent organizational and team skills and experience managing multiple assignments.
• Comfortable in a manufacturing environment.
• Mechanical inclination and an aptitude for design of equipment and manufacturing processes.

Physical Demands and Work Environment
• Inside/Outside conditions: During crush, work estimated at least 50% (but not limited to) outside with weather of varying types.
• Must be able to lift and carry 40 pounds.
• Wet/Slippery conditions vary and may include work in rain.
• Noise levels may vary. Occasional situations where ear protection is required.

*Gallo does not sponsor for employment based visas for this position now or in the future.

For full internship description, visit https://brae.calpoly.edu/students/employment
Hunter Industries’ annual Internship Program offers real-world experience! This summer’s program will run from May 18th to September 25th. We are accepting applications February 3rd through March 6th for the following 8 internships:

- Corporate Sustainability Intern
  SAN MARCOS, CA
- Mechanical Engineer Intern
  SAN MARCOS, CA
- Mechanical Engineer Intern
  SAN MARCOS, CA
- Mechanical Engineer Intern
  SAN MARCOS, CA
- Software Development Intern
  SAN MARCOS, CA
- Software Development Intern
  SAN MARCOS, CA
- Software Development Intern
  SAN MARCOS, CA
- Software Development Intern
  SAN MARCOS, CA

PRIDE IN OUR CULTURE, OUR PRODUCTS, OUR COMMUNITY

Share this with friends

Hunter Industries Inc 1940 Diamond Street, San Marcos, CA 92078
www.hunterindustries.com
Civil Engineer/Agricultural Engineer

DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

Overview

Open & closing dates
01/30/2020 to 04/06/2020

Pay scale & grade
GS 5 - 9

Appointment type
Permanent

Service
Competitive

Salary
$39,149 to $83,897 per year

Work schedule
Full-Time

Summary
There are multiple positions available throughout the state of California. If selected, the actual duty location will be determined by the State. The available locations are as follows: Blythe; Escondido; Mariposa; Redlands; San Jacinto; Santa Maria; Vacaville.

This position assists the area/zone or similar engineer; responsible for providing basic technical guidance & in the overall planning, design, installation & maintenance of the engineering phases of soil & water conservation practices.

Learn more about this agency
Responsibilities
Serves as an intermediate level engineer, performing progressively more responsible civil engineering duties, gradually increasing in difficulty and complexity in the planning, design and construction of engineering practices:
Engineering practices such as water management, animal waste management, erosion control, flood control, wetland creation or restoration, and other conservation practices needing engineering guidance.
Interprets plans and specifications for contractors, solving problems at local level as to proper interpretation of specifications.
Performs site investigations and field construction checks for conservation practice installations.

Travel Required
Occasional travel - You may be expected to travel for this position.

LEARN MORE BY VISITING https://www.usajobs.gov/GetJob/ViewDetails/558215800
Technical Services Supervisor
Status: Full Time Exempt
Department: Logistics

Job Summary: Schedule and dispatch a team of Technicians for repairs and maintenance of petroleum equipment at JB Dewar facilities and customer locations. Responsible for performance management, job prioritization, technical certifications for personnel, inventory management, financial accountability within the department, and communication across all departments at JB Dewar, Inc.

Qualifications:
- Automotive/truck service writer background a plus
- Clean DMV report
- Must maintain a valid class C or better driver’s license and will be required to obtain HazMat Endorsement
- Minimum of two years supervisory experience
- At least two years hands on experience in the electrical, mechanical or plumbing field
- Current or expired forklift operation certification

Essential Physical Functions:
- Frequent standing, sitting, bending, lifting, hand and finger movements associated with typing, 10 key and telephone operations.
- Able to lift and/or move 50 lbs
- May be required to work from heights, at times from ladders and other types of platforms

FOR MORE INFORMATION:
https://www.indeed.com/viewjob?from=appshareios%-2CiaBackPress&jk=0c5171fe80b0645d

Maintenance Service Technician I
Status: Full Time Exempt
Department: Logistics

Primary Purpose of the Position:
Under general supervision, perform basic maintenance, troubleshooting, and repairs to fuel, oil, and air delivery systems in various industries, on JB Dewar Inc. owned equipment and facilities.

Essential Skills & Responsibilities:
- Cleaning interior and exterior of petroleum tanks. Wire wheel/sand down exterior surfaces and apply fresh coat of primer/paint as needed
- General knowledge of pump systems. (i.e. lube and fuel pumps, meters, oil controls desirable)
- Must have good knowledge of mechanics and mechanical skills
- General electrical and plumbing knowledge
- Must be able to manage time and work with minimal supervision
- Keep accurate time and material records
- Must be able to use e-mail
- Keep JB Dewar maintenance vehicle clean and stocked with agreed upon inventory
- Needs good communication skills
- Valid Class C or better California Driver’s License with a clean driving record to operate company provided vehicle. Will be required to obtain Hazardous Materials Endorsement within the first 90 days of employment

Salary: $20.00 to $23.00 /hour

FOR MORE INFORMATION:
https://www.indeed.com/viewjob?cmp=JB-Dewar,-Inc.&t=Maintenance+Service+Technician&jk=64cff1f5fe38e498&q=dewar&vjs=3