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

Week 10 ~ June 4, 2019

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<td>CAFES Council 5:10PM 08-122 Grow Crew Meeting 11-12 Lab 4</td>
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<td>AES Barbecue BRAE Ramp</td>
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FINALS WEEK
WE HAVE MONEY FOR STUDENTS!!! (AZ, CA, CO, HI, NV, UT, WY)

Here is a scholarship application from Tractor and Equipment Association. All high school seniors and current students at tech schools, community, junior and four-year colleges and universities are eligible (no graduate students). Preference is given to individuals in ag mechanics, engineering and related hands-on tractor and equipment studies, although all related agriculture majors may apply. Financial need is a major component.

(See page 4 for print application)

Here is a link to the on-line application: https://www.fweda.com/tractor-equipment/
A NON-PROFIT ORGANIZATION

2020 Research Park Drive Site 160 * Davis, CA 95618 * (800) 578-8850 * Sandy Finack, Scholarship

APPLICATION FOR $1,000 SCHOLARSHIP AWARD

All high school seniors and current students at tech schools, community, junior and four-year colleges and universities are eligible. Awards will only be granted once per individual. Please limit responses to space provided. Applications may be typed or hand-written. Application deadline is September 1st. Electronic submission preferred. FAX: 916-597-5834 (or) E-Mail: atach@theacefit.com

Applicant Name: ____________________________________________

School Attending: __________________________________________

Intended Degree or Major: ____________________________________

Units Completed: ___________________ Units Needed To Graduate: ___________ G.P.A.: ____________

Permanent Contact Information

Home Address: ____________________________

City/State/Zip: ____________________________

Home Phone: ____________________________

E-Mail: ____________________________

Temporary Contact Information

School Address: ____________________________

City/State/Zip: ____________________________

Phone: ____________________________

E-Mail: ____________________________

Father's Profession: ____________________________

Parent's Approx Annual Income: ____________________________

Mother's Profession: ____________________________

Your Approx Annual Income: ____________________________

Work History (Attach a 1 Page Resume - or - Complete Below)

Employer: ____________________________ Position: ____________________________ Year: ____________________________

Employer: ____________________________ Position: ____________________________ Year: ____________________________

Employer: ____________________________ Position: ____________________________ Year: ____________________________

List Other Scholarship Awards Received:

1) ____________________________

2) ____________________________

3) ____________________________

List Extracurricular Activities:

1) ____________________________

2) ____________________________

3) ____________________________

References (Name, Title & Phone Number):

1) ____________________________

2) ____________________________

3) ____________________________

What are your plans after graduation?

__________________________________________________________

How would you use the scholarship?

__________________________________________________________

Why should you receive the scholarship?

__________________________________________________________

__________________________________________________________

Applicant Signature: ____________________________ Date: ____________________________
2019-2020 AES
OFFICER TEAM

AES President – Ryan Emory
ASABE President – Mary Hambly
SMB President – Ethan Jones
Tractor Pull President – Daphne Schwartz
AES Vice President – Mikaela Jensen
ASABE Vice President – Anthony Musch
SMB Vice President – Ian Reece
Secretary – Megan Campbell
Treasurer – Grant Doerksen
Reporter – Luke Reilly
AES CAFES Rep. – Luis Villanueva
ASABE CAFES Rep. – Jose Amezcua
SMB CAFES Rep. – Reid Adams
Career Fair Chair – Bradley Livingston
SWE Rep. – Michaela Sewell
Communications Chair – Megan Caird
Special Events Chair – Megan Logan
AES Banquet 2019

Best Capstone Award - Borelite
Academic Senior Excellence ASM - Cody Parker
Academic Senior Excellence BRAE - Dylan Goodwin
AES Outstanding Senior ASM - Daniel Herrera
AES Outstanding Senior BRAE - Derek Uemura

Over $125,000 in scholarships were awarded to Cal Poly BRAE Department Students
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.

The following is an amazing opportunity to be involved with cutting edge research related to algae production, algae biofuels and wastewater recycling. Applications are currently being accepted for the Summer 2019 quarter. Apply to the Cal Poly Water and Energy Sustainability Training Team (WESTT).

https://docs.google.com/forms/d/e/1FAIpQLSfh2nMfpZzt1-EpTG3wkNZYzcj6yt1xx-Lu7TqQ5Ah6kQSYorw/viewform

Through this program you will have the chance to learn valuable analytical and laboratory techniques and have the chance to earn 400 level units. Many of the skills learned through this experience are usually associated with graduate level research and will give you a head start in the field upon graduation.

Please submit your application for Summer 2019 no later than 6/9/19

Best Regards,
Your Cal Poly Water and Energy Sustainability Training Team
Dr. Tryg Lundquist, Dr. Corinne Lehr, Shelley Blackwell, and Sara Leader
Agricultural Engineering Internship Job Description
Freshway Farms, LLC.

Status: Level II Hourly; Part Time

General Job Description: The Freshway Farms ("FWF") Agricultural Engineering Intern will gain a wide range of practical experience by designing systems to improve efficiencies in harvesting and other activities which will be implemented on existing machines.

Relationship to Others within the Company
- Reports to and receives assignments from the Production Coordinator and General Manager.
- Will work with outside Engineers, Food Safety Coordinator, and Ranch Supervisors in order to determine specifications and constraints for designs.
- Discussing with harvest crews to get input from those actually completing the work. The ability to speak Spanish is not a requirement but does help. If you do not speak Spanish, you will gain a lot of practice.

Primary Responsibilities
- Designing Systems using CAD and SolidWorks
  - Work with Production Coordinator to determine where efficiencies in different operations can be achieved. Systems will aid workers in tasks to improve ergonomics and overall time to complete tasks.
  - The systems designed will include both structural and hydraulic engineering.
- Materials - Purchasing/Layout
  - Creating lists of materials and comparing quotes from different vendors.
  - Ensuring that materials purchased will comply with food safety regulations as well as worker safety aspects.
  - Work with Farm Shop to ensure that drawings and materials are clearly presented so that mechanics are able to fabricate in an efficient manner.
- Cost Analysis and Timelines
  - Creating a cost analysis to determine if the designed system will be cost effective.
  - Preparing fabrication and materials timelines so that projects can be completed in a timely fashion. These lists should include the following:
    - Materials lead/delivery times
    - Step by step project layout
    - Completion and testing dates

Primary Competencies
- Attitude: proactively looks for and proposes ways to improve operations; contributes to building a positive team spirit
- Attention to detail: pushing to ensure that detail is getting done; focused attention to detail
- Communication: Listens and gets clarification as needed; responds well to questions; remains open to others’ ideas or suggestions; proactively presents suggestions and ideas to improve operations as appropriate
- Dependability: takes responsibility for his or her own actions; keeps commitments
- Diligence: works to complete work required with a “whatever it takes” attitude
- Quality oriented: completes work in a timely manner; strives to increase productivity

Physical Requirements: Must have the ability to walk, talk, hear, see, speak, concentrate, and sit for lengthy periods of time, reach in all directions, stoop, bend and lift up to 40 pounds repeatedly throughout the day.

This job description is intended to describe the general nature of the work performed by employee(s) in this job. It is not an exhaustive list of all the job’s responsibilities. At Freshway Farms, all of our jobs include broad responsibilities for continually searching for and implementing ways to improve quality and profitability.

Contact: Ben Adam  Email: Ben.freshway@gmail.com  Cell: 805-260-9500