Week 5 - April 28, 2015

Make sure to come into the office to sign up for the AES Banquet on May 16th at Madonna Inn. The last day to pay is May 15th!
BRAE Scholarships Due May 1st
Make sure to log on to brae.calpoly.edu to fill out the department scholarships.

brae.calpoly.edu

Current Students

Scholarships

http://www.brae.calpoly.edu/students/scholarship
Come join the HGM team as an Application Engineer!

H.G. Makelim Co., the leading Value Added Reseller and Distributor of diesel and gas powered engines, service parts, and prime power generators has an outstanding opportunity for a new college grad as an Application Engineer for our fast-growing Engine Division.

In this role you will be a key member of the Engine Division team responsible for the design and support of engine packages for the Company’s OEM customers. You will also be responsible for CARB and EPA compliance testing, conducting field evaluations of applications in use, and other sales support of engine applications.

Located in Modesto, CA, the position supports H.G. Makelim's activities in 8 western states with the opportunity to travel throughout the West (about 25% travel).

If you are looking for an opportunity to learn and grow with the best and would like to work with the industry’s top customers and vendors, this could be just what you are looking for! For more information and to apply, please contact Bryce DaFonte at bdafonte@hgmakelim.com or call Bryce at (650) 827-7552.

H.G. Makelim Co. is an equal opportunity employer.
Agricultural Machinery Engineer

Summary

This position involves the design and development of new agricultural equipment for the nut harvesting industry. This includes using CAD tools to develop computer models of new machinery and performing engineering analysis on proposed designs.

Job Description

• Responsible for design of new farm machinery for specialized markets
• Assist in maintaining all documentation required to manufacture current product-line of 20+ models; including, but not limited to:
  o Fabrication drawings
  o Weldment drawings
  o Assembly documentation and instructions
  o Bill of Materials
• Involved in routine design updates for existing models
• Undertake research projects to assist with product improvement
• Problem solving for manufacturing processes

Qualifications

• BS in an applicable engineering discipline
• Previous experience in machine design preferred
• Good mechanical background, and understanding of equipment
• Electronic systems and controls programming background is beneficial
• Self motivated, with great attention to detail
• Proficient with engineering and support software such as:
  o Solid Works
  o AutoCad
  o Cosmos
• Experience with an MRP package is desirable
• Comfortable communicating with managers, shop personnel, suppliers and customers
Job Title: Agricultural/Civil Engineer (Recent Graduate)
Department: Department Of Agriculture
Agency: Natural Resources Conservation Service
Job Announcement Number: NRCS-15-0772-PW-MW
SALARY RANGE: $31,944.00 to $51,437.00 / Per Year
OPEN PERIOD: Friday, April 24, 2015 to Friday, May 1, 2015
SERIES & GRADE: GS-0810/0890-05/07
POSITION INFORMATION: Full-Time - Recent Graduates
PROMOTION POTENTIAL: 09
DUTY LOCATIONS: Few vacancies in the following location(s):
Carbondale, IL View Map
Effingham, IL View Map
Manhattan, KS View Map
Murfreesboro, TN View Map
Amarillo, TX View Map
More Locations (4)

WHO MAY APPLY: Recent graduates from a qualifying educational institution having completed an academic program within the preceding two years. Note: Veterans who were precluded by their military service obligation from meeting this requirement will have up to six years to apply.

JOB SUMMARY:
USDA's Natural Resources Conservation Service (NRCS) helps America's farmers and ranchers conserve the Nation's soil, water, air and other natural resources. We need people who want to apply their education and experience to make sure we all enjoy the benefits of productive soil, clean water, clean air, and abundant wildlife that come from a healthy environment. “Helping People Help the Land” http://www.nrcs.usda.gov/

The Pathways Recent Graduate Program is for recently graduated or graduating individuals who are looking for developmental experiences in the Federal Government intended to promote possible careers in the civil service. Recent Graduates will serve on this appointment for one year learning the fundamentals of the position for which they can be converted. For more information on the Pathways Recent Graduate Program, please visit https://www.usajobs.gov/StudentsAndGrads.

Candidates selected from this announcement may be eligible for non-competitive conversion to a term or permanent position in the competitive service provided that all terms of the Recent Graduate Program are met and there is an available position. Conversion is not mandatory or guaranteed.

There may be at least 1 vacancy filled per the following locations: Murfreesboro, TN, Effingham, and Carbondale, IL and Manhattan, KS. There may be at least 3 vacancies in the following locations: Amarillo, Gonzales, Haskell, Huntsville, and San Angelo, TX.

https://www.usajobs.gov/GetJob/ViewDetails/401945100
CAL POLY FUTURE FUELS CLUB
PRESENTS:
The
2015 Central Coast
Sustainability Festival
Saturday, May 2nd 11am to 4pm

The Latest in Sustainable Technology
Hands-on workshops
Alternatively Fueled Vehicles

Save Money and Energy in your own home

Be the winds of change Mission Plaza,
Downtown San Luis Obipso
Our annual end of year awards banquet recognizes the hard working students of the BRAE Dept. and their accomplishments made throughout the year. We have many exciting events planned that you don’t want to miss. There are many scholarships to be given out along with department awards.

**Ticket Prices**

**BRAE Dept. Students:** $30.00

**Guests:** $35.00

*Sign up in the BRAE Office Bldg. 8 Room 101
Last day to sign up: May 8, 2015*

**Catered Dinner:** Your choice of Rib Eye, Salmon, or Vegetarian. All dinners are served with mixed green salad, homemade dinner rolls, whipped potatoes, seasonal vegetable, coffee, tea, or milk, and a dessert. No host bar, your choice of soda, ice tea or coffee is included with dinner.

*Questions please contact Jenna Smiley, AES Vice President jdsmiley@calpoly.edu*

**Please pay by May 15th!** There will be no paying at the door this year. Please come into the office to pay and sign up!
Born and raised in Hanford California, this irrigation genius fell in love with agriculture in the midst of completing his undergrad degree at UC Davis in Ag Systems and Environment. After interning and landing a job with University California Irrigation Specialists, he was encouraged to join the mustang nation and get his masters degree in Water Engineering (right here in the BRAE department) at Cal Poly. He is now a registered Civil Engineer in the state of California and received his Ph.D. in Civil and Environmental Engineering from UC Irvine.

Dr. Howes started working at the Irrigation Training and Research Center back in 1999 when he was taking classes here. He loves teaching students about his passion, water. He believes that the future of California’s agriculture rests in the hands of well trained water managers in the industry and government. BRAE department students have successfully taken on this role and he want to keep this tradition strong. In addition to teaching irrigation courses, Dr. Howes works on a variety of interesting projects through the ITRC. He currently is working on a wide variety of projects including; using remote sensing to determine crop water use and net groundwater use, training and modernization of Bureau of Indian Affairs irrigation projects, and irrigation district flow measurement.

In his free time, Dr. Howes enjoys spending time with his family. He loves going to his children's, son Drew and daughter Cara, sports games and events. In his limited free time, Dr. Howes is a book worm and video game enthusiast. He enjoys Call of Duty, Watch Dog, and playing Minecraft with his son. Some of his favorite books involve mystery and problem solving. If you are interested in a new great book to pick up, consider any Tom Clancy, one of Dr. Howes favorites.

Written by: Megan O’Hearn
SAFETY TIP OF THE WEEK

What is wrong with this picture?

When grinding...
• Material **must be clamped** and securely fastened to the table.
• You need to hold the grinder with **both hands**, no matter the size.
• Ear-buds are not allowed to be worn in the shop **at any time** because they impair your hearing.
• Loose clothing **should not** be worn because it can be caught in equipment.

If you have any questions, ask Virgil or one of the shop technicians.
**April Calendar**

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<td>Robotics Club Meeting 6pm in 8-122</td>
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For more events check out the Department Calendar: https://connect.calpoly.edu/home/amaccarl@calpoly.edu/BRAE%20Department%20Events.html