BRAE 133

This Introduction to Engineering Design Graphics class introduces visual communication in engineering design and problem solving, principles of freehand sketching, engineering graphics, and computer-aided-drafting. Students also learn perspective and orthographic sketching, orthographic drawing with instruments and computer, applied descriptive geometry.

Check out more photos on page 10.

Photos Courtesy of Michael Burlingame

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Student Opportunities

These following opportunities are listed on pages 3-7.

J. G. Boswell Company
Regulatory Compliance Specialist

J. G. Boswell Company
Staff Mechanical Engineer

Lodi Pump & Irrigation Designer

Berkley Agribusiness Risk Specialists

2015 Homeland Security Summer Internship Program
The J. G. Boswell Company is seeking a Regulatory Compliance Specialist. The Company is seeking applicants with experience in our areas of interest. This position is a full time, exempt employee status position that will report to the Manager of Environmental Affairs.

- **Primary Responsibilities:**
  - Provide support and analysis on regulatory and legislative issues related to air quality, water quality, energy, transportation, pesticides, and other issues, and how they affect company operations.
  - Provide technical administrative support for day to day operations and duties, as well as archiving documents and maintaining databases.
  - Provide support for information and outreach to other departments within the company.

- **Qualifications and Requirements:**
  - Bachelor's degree from an accredited university with major in agricultural engineering, civil engineering, or environmental regulatory sciences. Registration as a Professional Engineer with the State of California a plus.
  - Develop a basic understanding of mechanical systems operations and the environmental regulations controlling them.
  - Ability to work independently and as a team member
  - Ability to accomplish tasks with minimal supervision
  - Good customer service skills
  - Effective communicator and planner
  - Ability to set priorities and work on multiple tasks
  - Ability to travel up to 20% of the time within state and 2% of the time within US
  - Proficient in Microsoft Office (Word, Excel, PowerPoint, Access & Outlook)

Compensation will include a competitive salary, paid vacation, disability benefits, medical and dental coverage, an employer funded retirement program, and, additionally, a Profit Sharing/401k program.
J. G. BOSWELL COMPANY
California Operations
Human Resources Department

Staff Mechanical Engineer

Researches, plans, and designs mechanical and electromechanical products and systems, and directs and coordinates activities involved in fabrication, operation, application, installation, and repair of mechanical or electromechanical products and systems by performing the following duties.

Essential Duties and Responsibilities include the following; other duties may be assigned.

Researches and analyzes data such as customer design proposal, specifications, and manuals to determine feasibility of design or application. Designs products or systems such as instruments, controls, robots, engines, machines, and mechanical, thermal, hydraulic, or heat transfer systems.

Directs and coordinates fabrication and installation activities to ensure products and systems conform to engineering design and customer specifications.

Coordinates operation, maintenance, and repair activities to obtain optimum utilization of machines and equipment.

Designs products and systems to interface machines, hardware, and software.

Evaluates field installations and recommends design modifications to eliminate machine or system malfunctions.

This job may have supervisory responsibilities in the future.

Bachelor's degree (B. A.) from four-year college or university; or one to two years related experience and/or training; or equivalent combination of education and experience. Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

Ability to work with mathematical concepts such as probability and statistical inference, and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.

Must possess clean CA driver's license

Competitive benefit/salary package. No deadline; jobs filled when right candidate found. Please send letter of application, together with resume & transcripts to

Human Resources Manager
J. G. Boswell Company
P. O. Box 877
Corcoran, CA 93212
cdavenport@jgboswell.com
Fax: (559) 992-4418
JOB OPENING: Designer

# of Positions: 1
Job Type: Full-Time or Part-Time
Benefits: Full Benefits for Full-Time

Compensation: Salary + Performance Incentive
Preferred Qualifications: Degree or currently working toward a degree in engineering or drafting, experienced in Autocad and/or Solid Works, a background in water hydraulics is a plus

Department: Design

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Want to be part of a fun-spirited, energetic, forward-thinking team? We are a highly-creative & innovative irrigation company looking for a self-driven draftsman willing to openly collaborate with coworkers to produce projects in the field and in the office.

Job Position: In a word, Designer... In the words of your potential teammates, problem solver, critical thinker, excellent communicator, conceptual thinker, hands-on, thinks outside the box, enjoys their work, and works well with others. If it has to do with water we design it: Irrigation, Pump & Filter Stations, Electrical Controls, Fertilizer Injectors and more...

What We Provide: A fast-paced, fun and energetic team environment; expansive workspace & open access to experienced team members ready to train and work with you to create amazing results.

What We Want You to Provide: Motivation with a strong desire to learn; High intellect; Ability to meet deadlines and excel under pressure; Knowledge of irrigation is a plus; Proactive communicator with team members, sales team, customers, and vendors; Dedication; Efficiency; Endurance for the busiest seasons; Flexibility; and an Engineering Mind. A background in Fabrication would be great, but is not necessary.

What Will Make You a Great Candidate: In addition to the above character traits and skills, experience with or willingness to become an expert in programs such as AutoCAD and Solid Works; an understanding of Irrigation Hydraulics; and a friendly, outgoing personality.

Bottom Line: If you like people, hard work, dirt, water, success, and a challenge – Opportunity awaits! Apply soon for more information. Email resume to SIR@LodiIrrigation.com
### Careers

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<tr>
<th>Job Title</th>
<th>Status</th>
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<tr>
<td>Senior Casualty Claims Representative</td>
<td>Full Time</td>
<td>Iowa</td>
<td>Des Moines</td>
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<tr>
<td>Risk Control Specialist</td>
<td>Full Time</td>
<td>California</td>
<td>Fresno or Sacramento</td>
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<tr>
<td>Commercial Lines Underwriting Assistant</td>
<td>Full Time</td>
<td>Iowa</td>
<td>Des Moines</td>
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#### Senior Casualty Claims Representative

**FLSA:** Exempt  
**Date Opened:** 5/25/2018  
**Job Description:**
Berkeley Agribusiness Risk Specialists (BARS) is looking for an experienced Senior Casualty Claims Representative. Primary responsibility will include investigation and successful resolution of claims filed against us, delivering superior customer service. Additional position involves working closely with all other functional areas of the BARS team.

**Qualifications:**
- Bachelor's degree in related field and minimum of 5 years multi-line adjusting experience with an emphasis in adjusting complex casualty claims.
- In-depth knowledge of commercial lines coverages and exposures as well as interpret policies, legal limitations, and negotiating skills needed.
- Experience in agribusiness and/or agricultural related claims as well as coursework in Ag, CPCU, or SOA is a plus.
- Candidate selected must be able to secure and maintain a multi-state adjuster license as needed.

We offer a competitive salary, excellent benefits and an opportunity for personal and professional growth. If you have the qualifications we seek, please forward a resume and cover letter.

#### Risk Control Specialist

**FLSA:** Exempt  
**Date Opened:** 5/25/2018  
**Job Description:**
Berkeley Agribusiness Risk Specialists (BARS), a division of Continental Western Group, has an employment opportunity for an experienced Risk Control Specialist to serve the state of California with a majority of the agribusiness exposures located in the Fresno and Sacramento areas. BARS serves customers nationwide in regional grain storage and marketing, grower-packers, shippers, and food and beverage distribution, among others.

This position will be responsible for providing risk control surveys at both prospective and existing producer locations for the purposes of gathering underwriting information and providing suggestions for risk improvement. Will also contribute to BARS development of safety standards and programs. Must actively participate in agribusiness organizations of which we insured are members.

The candidate selected will work in or around Fresno or Sacramento.

**Qualifications:**
- Bachelor's degree in related field and 0-2 years loss control experience in property & casualty insurance strongly preferred.
- Strong working knowledge of commercial exposures in target.
- Solid knowledge of underwriting, standards and training for loss prevention.
- Proficiency in Microsoft Word, Excel, and Word for Windows.
- Ability to travel to local and out-of-state locations.
- Must have excellent oral and written communication skills.
- Must be well organized and self-starter.
- Valid driver's license and acceptable motor vehicle record required.

We offer a competitive salary, excellent benefits and an opportunity for personal and professional growth. If you have the qualifications we seek, please forward a resume and cover letter.

#### Senior Casualty Claims Representative

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**Equal Opportunity Employer**

Berkeley Agribusiness Risk Specialists is an Equal Opportunity Employer dedicated to a policy of compliance with all federal, state, and local laws regarding nondiscrimination in employment.

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10-week research experiences offered at:


Other Research Facilities: Homeland Security Studies and Analysis Institute, Coast Guard Research and Development Center, Customs and Borders Protection, Domestic Nuclear Detection Office, Naval Research Laboratory, Engineer Research and Development Center, Federal Emergency Management Agency, National Security Technologies, and Transportation Security Laboratory

Undergraduate and graduate students receive a stipend of $6,000 and $7,000, respectively, plus limited travel expenses

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 22, 2014 www.orau.gov/dhseducation/internships

Administered by the Oak Ridge Institute for Science and Education
Tutoring available for ME 211, ME 212, ME 302, CE 204, & CE 207*

The Student Success Center (192-133) will be offering tutoring Monday, Wednesday, and Thursday from 4:10pm-8pm and Tuesdays from 4:10pm-6pm for Statics, Dynamics, Thermodynamics, and Mechanics of Materials. Teaching assistants will be available at this common location to work on homework and exams. Mock quizzes will also be used to practice for exams.

ME Student Success Center

Building 192, Room 133

Help with:
• STATICS (ME211)
• DYNAMICS (ME212)
• THERMODYNAMICS (ME302)
• MECHANICS OF MATERIALS (CE204, CE207)

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<th>Monday</th>
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Harmony High Magnet School in Strathmore, CA tours the BRAE Department!

Around 70 prospective students enjoyed an informative day at the BRAE department last week! They learned about Water Engineering, BioMechanical Engineering, BioEnergy, Satellite Surveying and Automation. These prospective students enjoyed a tasty lunch on the BRAE Ramp and then toured the other Cal Poly Engineering Departments.

Thank you to everyone who helped out!
BRAE 133

Pictures from Story on Page 1
AES 3rd General Meeting

Wednesday, November 19th

Building 8A Lab 4

Meeting at 6:00 PM

Get excited for:

• Scavenger Hunt
• BBQ Chicken Dinner
• Cheesy Potatoes

Happy Thanksgiving!
ASABE Robotics Club Meeting

Thursday, November 20th 6pm.

Come have pizza and participate in an Arduino Activity!
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