The BioResource and Agricultural Engineering Department is dedicated to advancing the study, teaching and practice of engineering and systems management support for agriculture. From day one, students are immersed in Learn by Doing, laboratory-intensive classes designed to hone their problem-solving skills and provide them with the necessary tools and opportunities to build what they design.

MAJORS

- AGRICULTURAL SYSTEMS MANAGEMENT
- BIORESOURCE AND AGRICULTURAL ENGINEERING

MINORS

- GEOGRAPHIC INFORMATION SYSTEMS
- WATER SCIENCE
- AGRICULTURAL LEADERSHIP

GRADUATE PROGRAMS

- MASTER OF SCIENCE IN AGRICULTURE WITH SPECIALIZATIONS IN: WATER ENGINEERING; IRRIGATION; OR BIORESOURCE AND AGRICULTURAL SYSTEMS

INTERDISCIPLINARY

The BioResource and Agricultural Engineering Department has positively impacted me by providing a great Learn by Doing environment where I can learn from my major courses and labs, as well as activities outside of school, such as through clubs or research opportunities.

The courses in the BioResource and Agricultural Engineering Department are really centered around real-world applicability and providing a breadth of knowledge in many aspects of engineering. This has allowed me to try various things and narrow down my career interests.

MEGAN CAMPBELL, fourth-year bioresource and agricultural engineering student
DEPARTMENT HIGHLIGHTS

ENTERPRISE AND CAPSTONE COURSES

BRAE is known for its capstone experience. Our students team up with our Ag Systems Management students to solve real-world problems sponsored by industry. The student teams design, fabricate, and test innovative equipment that will be out in the field the next year. Our projects are sponsored by specialty equipment firms, specialty crop consortiums, irrigation districts, solar and alternative energy industry, and the dairy industry.

TRACTOR PULL

The Cal Poly Tractor Pull Team hosts the annual Poly Royal tractor pull. This event attracts high-performance trucks, tractors and spectators from throughout California. The team has two tractors, Mustang Fever and Poly Thunder, that students drive at tractor pulls at state and county fairs in California and Nevada.

STUDENT CLUBS

The Quarter Scale Tractor Team and Precision Ag and Automation Club participate in the annual American Society of Agricultural and Biological Engineers International student design competitions. Students also compete in the National Ag Bot Challenge.

ON THE JOB

CAREERS

Civil engineering
Irrigation system design
Project management
Specialty equipment design
Water system management

TOP EMPLOYERS

J.G. Boswell
FM Global
E. & J. Gallo Winery
G3 Enterprises
Granite Construction
Preston Pipelines

STUDENT CLUBS

Agricultural Engineering Society
American Society of Agricultural and Biological Engineers
Cal Poly Tractor Pull
Student Mechanical Branch

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