BIORESOURCE AND AGRICULTURAL ENGINEERING

OVERVIEW

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 AGRICULTURAL ENGINEERING TECHNOLOGY

$62,500

MEDIAN SALARY OF AGRICULTURAL SYSTEMS MANAGEMENT GRADUATES WITHIN ONE YEAR OF GRADUATION.

$64,500

MEDIAN SALARY OF BIORESOURCE AND AGRICULTURAL ENGINEERING GRADUATES WITHIN ONE YEAR OF GRADUATION.

INTERDISCIPLINARY

COLLEGE OF ENGINEERING

INDUSTRY

COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENTAL SCIENCES
DEPARTMENT HIGHLIGHTS

IRRIGATION TRAINING AND RESEARCH CENTER (ITRC)

The ITRC was established in 1989 as a center of excellence, building on a history of contributions to the irrigation industry. The first commitment of the ITRC is to enhance Cal Poly’s strong irrigation teaching program through outside activities in training, research and technical support. Cal Poly and the ITRC combine sophisticated theory with a hands-on approach to provide a usable product.

The department’s unique state-of-the-art laboratories allow students to work with the most current technology in expansive outdoor and indoor facilities. Graduates can manage advanced technologies, and they are eager and able to engineer solutions to the problems of resources and systems. Graduates of Cal Poly’s BioResource and Agricultural Engineering Department are in high demand. The department’s reputation for producing well-educated, experienced and workplace-ready graduates is well established throughout California, the U.S. and abroad.

STUDENT CLUBS

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

ON THE JOB

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

TOP EMPLOYERS
J.G. Boswell
Cal Poly Irrigation Training and Research Center
E. & J. Gallo Winery
G3 Enterprises
Granite Construction
Preston Pipelines

TOP EMPLOYERS

CONNECT
805-756-2378
brae.calpoly.edu

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NATIONAL STUDENT COMPETITIONS

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.

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.