# BIOLOGICAL & AGRICULTURAL ENGINEERING

#### College of Agricultural & Environmental Sciences

Fadi Fathallah, Ph.D., Chair of the Department; term ends June 30, 2026 Stavros Vougioukas, Ph.D., Vice Chair of the Department

### **Department Office**

2030 Bainer Hall; 530-752-0102; Biological & Agricultural Engineering; Faculty (https://bae.ucdavis.edu/people/)

#### **Major Programs**

The Department of Biological & Agricultural Engineering offers two undergraduate programs: Agricultural & Environmental Technology (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/agricultural-environmental-technology/) and Biological Systems Engineering (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-bs/), with an integrated Bachelor of Science/Master of Science degree (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-bs-ms-integrated/) option in Biological Systems Engineering.

## **Graduate Study**

The Department of Biological & Agricultural Engineering offers the following graduate degrees in Biological Systems Engineering: Master of Engineering (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-me/), Master of Science (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-ms/), Doctor of Engineering (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-phd-engineering/), Doctor of Philosophy (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering/biological-systems-engineering-phd/); see also Graduate Studies (http://gradstudies.ucdavis.edu/).

### **Minor Programs**

The Department of Biological & Agricultural Engineering offers two minors through the College of Agricultural & Environmental Sciences: Geographic Information Systems (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/geographic-information-systems-minor/) and Precision Agriculture (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/precision-agriculture-minor/); and also administers three minors through the College of Engineering in Energy Science & Technology (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/energy-science-technology-minor/), Energy Efficiency (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/energy-efficiency-minor/), and Energy Policy (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/energy-policy-minor/).

#### **Courses**

Courses are listed under Applied Biological Systems Technology (ABT) (https://catalog.ucdavis.edu/courses-subject-code/abt/), Agricultural & Environmental Technology (TAE) (https://catalog.ucdavis.edu/courses-subject-code/tae/) and Biological Systems Engineering (EBS) (https://catalog.ucdavis.edu/courses-subject-code/ebs/).

- Agricultural & Environmental Technology, Bachelor of Science (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/agricultural-environmental-technology/)
- Biological Systems Engineering, Bachelor of Science (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-bs/)
- Biological Systems Engineering, Bachelor of Science/Master of Science Integrated (https://catalog.ucdavis.edu/departmentsprograms-degrees/biological-agricultural-engineering/biologicalsystems-engineering-bs-ms-integrated/)
- Biological Systems Engineering, Master of Engineering (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-me/)
- Biological Systems Engineering, Master of Science (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-ms/)
- Biological Systems Engineering, Doctor of Engineering (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-phd-engineering/)
- Biological Systems Engineering, Doctor of Philosophy (https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/biological-systems-engineering-phd/)
- Energy Efficiency, Minor (https://catalog.ucdavis.edu/departmentsprograms-degrees/biological-agricultural-engineering/energyefficiency-minor/)
- Energy Policy, Minor (https://catalog.ucdavis.edu/departmentsprograms-degrees/biological-agricultural-engineering/energy-policyminor/)
- Energy Science & Technology, Minor (https://catalog.ucdavis.edu/ departments-programs-degrees/biological-agricultural-engineering/ energy-science-technology-minor/)
- Geographic Information Systems, Minor (https:// catalog.ucdavis.edu/departments-programs-degrees/biologicalagricultural-engineering/geographic-information-systems-minor/)
- Precision Agriculture, Minor (https://catalog.ucdavis.edu/ departments-programs-degrees/biological-agricultural-engineering/ precision-agriculture-minor/)