

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-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/departments-programs-degrees/biological-agricultural-engineering/biological-systems-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/departments-programs-degrees/biological-agricultural-engineering/energy-efficiency-minor/>)
- Energy Policy, Minor (<https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/energy-policy-minor/>)
- 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/biological-agricultural-engineering/geographic-information-systems-minor/>)
- Precision Agriculture, Minor (<https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/precision-agriculture-minor/>)