



UC San Diego

BIOENGINEERING

BE.UCSD.EDU

UC San Diego's Bioengineering major integrates engineering, biology, and medicine to prepare students to design technologies that improve human health. The program emphasizes hands-on problem-solving, quantitative analysis, and interdisciplinary research with access to world-class laboratories and faculty. Students study biomechanics, cellular engineering, systems biology, and medical device design while gaining practical experience through project-based courses and research opportunities. As one of the nation's top bioengineering programs, it offers strong preparation for careers in biotech, medical technology, healthcare innovation, or further study in engineering, medicine, or graduate research.

PROGRAM HIGHLIGHTS

- UC San Diego's Jacobs School of Engineering ranks #6 among public institutions in the nation.
- Bioengineering is ranked among the top 5 programs in the nation for the last 20 years.
- Many of the Bioengineering programs have ABET accreditation.

WHAT CAN I DO WITH THIS MAJOR?

Learn about how you can apply your major to various opportunities after you graduate. The information below is based on recent surveys from alumni in this (or similar) majors and is not an exhaustive list.

RECENT EMPLOYERS

Amazon • Aspen Neuroscience • BD • Biolegend • Dexcom • Illumina • NuVasive • Stanford University • University of California

JOB TYPES

Bioengineers & Biomedical Engineers • Industrial Engineers • Management Consultants & Business Analysts • Product Managers

GRADUATE PROGRAMS

Bioengineering & Biomedical Engineering • Bioinformatics • Electrical & Electronics Engineering • Engineering • Vision Science

SKILLS

Common: Communications • Leadership • Research • Teaching
Specific: Additive Manufacturing • AutoCAD • MATLAB • Python



EXPERIENTIAL LEARNING

CO-CURRICULAR PROGRAMS

RESEARCH

Learn how to make the most of your experience at UC San Diego within the context of your major.

Conduct research in your field of student with one of the many research programs available. Research opportunities in this major include, but are not limited to:

BUMMP Research Apprenticeship Program

- Available Fall, Winter, and Spring
- Open to first-years, sophomores, and juniors
- Stipend available

Cancer Research and Education to Advance Health Excellence (CREATE) Scholars Program

- Available during Summer
- Open to sophomores, juniors and seniors
- Stipend available

Guided Engineering Apprenticeship in Research (GEAR)

- Available Fall, Winter, and Spring (3 quarter commitment)
- Open to first-years, sophomores, juniors, and seniors
- 2 units of ENG 20; possible 199 and/or co-curricular credits

For more details, eligibility, and to explore more programs, visit our [Undergraduate Research website](#).

INTERNSHIPS

UC San Diego offers strong internship pathways for undergraduates through the Academic Internship Program (AIP) and the Research Experience and Applied Learning (REAL) Portal. AIP enables students to earn academic credit while gaining professional experience in fields across all majors, supported by faculty mentorship and an academic component. The REAL Portal serves as a centralized hub for finding research, internships, service learning, and other hands-on opportunities on and off campus. Together, these resources help students explore career interests, build professional skills, and connect academic learning with real-world experience.

Find a Program

- Academic Internship Program: aip.ucsd.edu
- REAL Portal: real.ucsd.edu

STUDY ABROAD

Students are encouraged to explore study abroad opportunities which allow students to experience the culture and history of another country and gain a global perspective, all while earning academic credit toward their degree.

Learn more about [study abroad opportunities](#).

STUDENT ORGANIZATIONS

With over 600 student organizations, students are able to connect with other students who share similar interests. And, if you can't find something that interests you, it's easy to create a new one with just a few other students.

[Explore UC San Diego student organizations](#).

Be sure to check out these organizations related to your major: Biomedical Engineering Society (BMES) • Undergraduate Bioinformatics Club (UBIC) • Triton Engineering Student Council (TESC)