Bioengineering, BS

for the degree of Bachelor of Science in Bioengineering

Bioengineering Website (https://bioengineering.illinois.edu/)
Bioengineering Faculty (https://bioengineering.illinois.edu/people/faculty/)
The Grainger College of Engineering Admissions (https://grainger.illinois.edu/admissions/)
The Grainger College of Engineering (http://catalog.illinois.edu/undergraduate/engineering/bioengineering-bs/grainger.illinois.edu)
Current Program Educational Objectives (https://bioengineering.illinois.edu/academics/undergraduate/education-objectives/)

Bioengineers use engineering principles to solve problems in the life sciences, human health and medicine, and related industries. At the undergraduate level, the goal of bioengineering education is to instill a fundamental understanding of biology while developing core skills to design technologies relevant to human health and disease.

The Bioengineering department at the University of Illinois Urbana-Champaign provides a rigorous engineering education that prepares graduates to:

# secure and excel in jobs as engineers in industries of biotechnology, health care equipment and technology, life science tools, and pharmaceuticals,
# pursue graduate studies in bioengineering-related fields, and
# pursue professional degrees in the health sciences, law, and business.

During the first and second years of the curriculum, fundamental courses in biology, chemistry, computing, mathematics, and physics introduce students to the multidisciplinary principles underlying bioengineering as a field. Throughout the curriculum, core coursework becomes progressively more integrative across the disciplines and in years three and four, students specialize in a chosen bioengineering subdiscipline. The program is distinguished by laboratory courses that provide diverse experiences and hands-on skills as well as a capstone design course in which students practice the rigorous application of engineering fundamentals to biological problems identified by faculty, clinicians, and industrial partners.

Information listed in this catalog is current as of 05/2022