CAREER OUTLOOK
Graduates of the biomedical engineering (BME) undergraduate degree program will be prepared for a broad range of careers, including medical equipment design and manufacturing, scientific and medical research and development services, pharmaceutical and medicine development and manufacturing, and work with medical professionals.

ADMISSION INTO BME @ UMASS AMHERST
In the UMass Amherst College of Engineering students enroll as “pre-engineering” and declare their formal major during their sophomore year, after achieving grades of “C” or better in their first-year courses.

START THE CONVERSATION
Is Biomedical Engineering the right fit? A “yes” to some of these questions is a good indicator.

Are you…
- Interested in both engineering and the life sciences? Maybe medical school?
- Passionate about the health and well-being of people? Researching for a cure?
- Interested in an interdisciplinary major? Versatile degree? Well-paying job in a growing field?
- Excited by the idea of designing and/or improving medical devices?
- Creative and innovative?
- Looking to work in the biotech field?
- Drawn to the lab bench, with interest in studying tissues and cells?
BIOMEDICAL ENGINEERING
@ UMass Amherst
A BME degree prepares you for graduate school, industry, or medical school.

Biomedical Engineering
Bureau of Labor Statistics
U.S. Department of Labor, 2016

23.1% “Much Faster than Average”

$91,410 ANNUAL MEAN WAGE
Biomedical Engineers, State of Massachusetts

UMass Amherst
College of Engineering
Statistics

Class of 2016
93% successful placement
six months out, 87% reporting
salary range: $43,700 – $105,600

ENTERING FIRST-YEAR STUDENTS
FALL 2017
4.06 MEAN HIGHEST SAT
1290–1400 SAT combined, new scale mid 50th % range

#29 among public engineering programs
#1 New England

BIOMEDICAL ENGINEERING

SAMPLE COURSES
Materials Science; Biorobotics; Cell & Matrix Mechanics; Fluid Dynamics; Orthopedic Biomechanics

Molecular Therapeutics
SAMPLE COURSES
Biochemistry; Anatomy; Drug Delivery Design; Microbiology; Immunology

Biomechanics and Medical Devices
SAMPLE COURSES
Materials Science; Biomechanics; Cell & Matrix Mechanics; Fluid Dynamics; Orthopedic Biomechanics

Sensors and Bioinstrumentation
SAMPLE COURSES
Circuit Analysis; Signals And Systems; Biosensors; Microbiology; Biomedical Devices

TOURS
Plan a visit. Explore the college.
Student-led 45-minute tours provide an overview of engineering academics and student life. College of Engineering tours are scheduled Monday through Friday during the academic year — engineering.umass.edu/tours.

UMASS AMHERST APPLICATION PROCESS
UMass Amherst accepts the Common Application. For more information on what the complete application package includes, as well as the criteria used by our admissions staff when reviewing applicants, please visit umass.edu/admissions/apply.

MORE INFORMATION
UMass Amherst Biomedical Engineering — bme.umass.edu
Navigate the Circuit by American Institute for Medical and Biological Engineering — navigate.aimbe.org
The UMass Amherst College of Engineering Office of Student Affairs, (413) 545-2035
FAQS

Does the College of Engineering have an internship/co-op program? A study-abroad program? An undergraduate research program?

Yes! Our Engineering Career Development and Experiential Learning Center can help you explore all of these opportunities, and more. Study abroad and co-ops during the academic semester are possible for engineering students, but it requires planning. Internships usually occur during the summer and are paid experiences. Handshake is our software platform where students can find jobs, internships, co-ops and connect to the career center for recruiting events, fairs, workshops and helpful career resources. Undergraduate research opportunities can be paid or unpaid and are offered year-round, with a focus on the summer. Exciting opportunities include working with BME related researchers in our Institute for Applied Life Sciences (IALS) where life science research is translated into products that improve human health.

Where do engineering students live on campus?

First-year residence halls are located in the Central, Northeast, Orchard Hill, and Southwest areas of campus. Those who participate in an engineering-focused Residential Academic Program (RAP) living community will be placed in Dickinson; Dwight; Leach; or Sycamore dorms, as determined by eligibility.

Does one apply to both Commonwealth Honors College and the College of Engineering?

If you are entering UMass Amherst with an exemplary high school record then you may be considered for admission to the Commonwealth Honors College. There is no separate application process; students are notified of their selection with their general letter of admission.

How much is tuition? Are there scholarships?

Estimated tuition, as well as scholarship and financial aid resources, can be found on the UMass Amherst Financial Aid Services website. There is an engineering fee of $415/semester and a laptop requirement. To help offset tuition and fees, the College of Engineering offers a number of alumni-funded merit and need-based scholarships to currently enrolled engineering students. umass.edu/umfa