

# ABET Biomedical Engineering

## Accreditation

The New Jersey Institute of Technology program in Biomedical Engineering is accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).



Engineering  
Accreditation  
Commission

## BME Program Educational Objectives

The undergraduate program leads to a Bachelor of Science degree in Biomedical Engineering (BME) that:

- Prepares students for productive careers related broadly to biomedical engineering. It is anticipated that BME graduates will embark upon diverse career paths in industry (medical device / pharmaceutical / biotechnology), professional education (including medical school), or research.
- While working within their selected career path, we expect that our alumni will demonstrate the following traits:
  - 1) BME alumni are integrators: We expect BME graduates to translate and effectively communicate their fundamental knowledge of sciences, mathematics, liberal arts, and engineering analysis into actions that address and solve a wide range of problems, especially those related to medicine and biology.
  - 2) BME alumni continue their professional growth: We expect BME graduates to advance their skills through professional growth and development opportunities provided by participation in a professional society, continuing education, or graduate study in engineering or other professional fields.
  - 3) BME alumni are engaged in service: We expect BME graduates to engage in service to their chosen professional societies as well as their local, national, or global communities.

## BME Student Outcomes

Students from the BME program will attain (by the time of graduation):

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

## BME Undergraduate Enrollment and Degrees Awarded

<b>Fiscal Year</b>	<b>FTFTU</b>	<b>Transfer</b>	<b>Total Enrollment</b>	<b>Degrees Awarded</b>
2017	96	29	331	64
2016	63	17	298	54
2015	84	13	298	63
2014	73	13	280	55
2013	65	9	283	55