

## **Objectives of the Bachelor of Science in Biomedical Engineering at NJIT**

**Objective A)** The overall educational objective of the Bachelor of Science Biomedical Engineering Program is to prepare students for productive careers related broadly to biomedical engineering. It is anticipated that BME graduates will embark upon diverse career paths:

Obj-A-1) We anticipate that a significant number of our graduates will serve the medical device / pharmaceutical / biotechnology industries.

Obj-A-2) We also anticipate that many of our graduates will utilize their foundation from biomedical engineering education in a variety of related endeavors: for example, medicine, dentistry, law, business, government, and other engineering/scientific fields.

**Objective B)** While working within their selected career path, we expect that our alumni will demonstrate the following traits:

Obj-B-1) **BME alumni are integrators:** We expect BME graduates to successfully and effectively integrate 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.

Obj-B-2) **BME alumni are communicators/translators:** We expect BME graduates to successfully and effectively utilize their multidisciplinary background to foster communication across professional and disciplinary boundaries.

Obj-B-3) **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.

Obj-B-4) **BME alumni are engaged in service:** We expect BME graduates to engage themselves in service to their chosen professional societies as well as their local, national, or global communities.