

Biomedical Engineering Program

Program Educational Objectives

The undergraduate Biomedical Engineering Program Educational Objectives (PEO's) are that our alumni:

1. Will be engaged in professional practice as biomedical engineers and/or biomedical scientists in occupational settings involving human health and well-being (PEO 1),
2. Will advance in their professional careers (PEO 2)
3. Will engage in professional development, or post-graduate education, to continue their self-development in biomedical engineering or other related fields (PEO 3)

Student Outcomes

Before graduation, students of the Georgian Technical University's Biomedical Engineering program will demonstrate:

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.