

BIOMEDICAL ENGINEERING

Department Website (https://www.sc.edu/study/colleges_schools/engineering_and_computing/departments/biomedical_engineering/)

Biomedical Engineering degree programs at the University of South Carolina were designed and developed to train students to initiate, to integrate, to imagine and to invent new processes and new products in order to improve human health. The students who enter our programs are among the very best in the University and in the nation. Our existing faculty members, as well as faculty who we are recruiting for the programs, are all committed to helping students develop the intellectual, technological and personal skills that will allow them to thrive in academia, medicine, or industry. We anticipate that our graduates will utilize their unique education and research experience to excel in positions ranging from professors in top-ranked universities to executives in new medical device or large pharmaceutical companies.

Fields of Specialization

Research interests of the BME faculty cover a broad field of study in the areas of biomechanics, image processing, computational medicine, medical techniques and genetic engineering. The BME program incorporates these disciplines to equip students with knowledge and technical skills needed for a lifelong career in various areas of biomedical engineering.

The college also encourages cross-disciplinary research through four centers: the Center for Electrochemical Engineering, the Center for Industrial Research, the Center for Information Technology, and the Center for Mechanics of Materials and Nondestructive Evaluation. These centers use faculty and student expertise from all departments to pursue research and development projects in areas of interest to industry, government, and academics.