DOCTOR OF PHILOSOPHY IN THE FIELD OF BIOMEDICAL ENGINEERING

Program Overview
The doctoral degree program in biomedical engineering is designed to prepare students for a career of creative scholarship by providing a broad but balanced background of knowledge and guidance in the performance of research. This interdisciplinary program provides coursework and research that draw on resources from across the School of Engineering and Applied Science. Existing research partnerships with the University’s School of Medicine and Health Sciences and GW Hospital, as well as the National Institutes of Health and U.S. Food and Drug Administration, offer unique research opportunities and laboratory facilities.

Areas of Focus
There are a number of areas in which program students focus their dissertation research. These include cardiac electrophysiology, therapeutic ultrasound and drug delivery, image analysis and image processing, medical imaging and computer-aided diagnosis, assistive robotics, optogenetics, and microfluidics and lab-on-a-chip technology.

Specific admission requirements are shown on the Graduate Program Finder (http://www.gwu.edu/all-graduate-programs).

Visit the program website (https://www.bme.seas.gwu.edu/phd-biomedical-engineering) for additional information.

REQUIREMENTS
The following requirements must be fulfilled:

The general requirements stated under School of Engineering, Doctoral Program Regulations (http://bulletin.gwu.edu/engineering-applied-science/#seasregulationstext)

Students with an MS degree must take a minimum of 30 credits, of which at least 18 must be from graduate courses, and at least 12 must be dissertation research credits. The courses to be taken by the student must be approved by the student’s advisor. In some cases, particularly when the student undertakes a doctoral program in a field other than that in which the earlier degree was earned, the program of study exceeds the minimum number of credits.

No specific courses are required; the student and advisor design the curriculum to meet the student’s needs and goals.

Student should contact the department for additional information and requirements