

Graduate Biorobotics Certificate Program

Program Overview

The Biorobotics Certificate is offered through the School of Electrical and Computer Engineering. The certificate is open to graduate students in any degree program at Georgia Institute of Technology. This certificate program is an initiative resulting from the NSF Research Traineeship (NRT) program in healthcare robotics. The motivation for this certificate program is to encourage the development of bold, new, transformative and scalable models for STEM graduate training in robotics.

With the Biorobotics Certificate, students will

- Learn about the fundamentals of robotics while gaining a biological perspective
- Learn about various biomechanical and/or biological characteristics of living systems to use as motivation for developing new robot designs
- Learn to apply these blended concepts through the immersion in an interdisciplinary robotics research project

Requirements

Student must complete two Biorobotics core courses and two Biorobotics elective courses, each with a grade of B or higher. Student must complete a graduate degree in any academic unit of Georgia Institute of Technology.

Core Courses (6 credit hours):

- ECE/BMED/ME 7785 Introduction to Robotics Research
- ECE/BMED/ME 8750 Multidisciplinary Robotics Research

Elective Courses (6 credit hours):

- ECE/PHIL 6710 Ethics of Biotechnology and Bioengineering Research
- ECE/BMED 8813 Interfacing Engineering Technology and Rehabilitation
- APPH 6231 Human Motor Control
- APPH 6232 Locomotion Neuromechanics
- APPH 6236 Neuromuscular Physiology
- APPH 6400 Human Neuroanatomy
- APPH/ME 6746 Rehabilitative Engineering

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