RESEARCH EXPERIENCE IN REHABILITATION ENGINEERING

Posting ID: IN18010562
Company Website: http://www.csuohio.edu/engineering/mce/mce

Company: Cleveland State University
Work Location: Cleveland, OH

Position Type: Full-Time

College Major(s): Mechanical Engineering (ME), Computer Science (CS)
College Level(s): Undergraduate-Freshman, Undergraduate-Sophomore, Undergraduate-Junior, Undergraduate-Senior

OVERVIEW

This program immerses undergraduate students in engineering and computer science research projects that aim to improve the lives of people with movement disabilities. Students will live on campus at Cleveland State University and work with faculty mentors on research projects full-time for ten weeks during the summer of 2018. The areas of research include balance training for elderly adults, joint mechanics, control of prosthetic legs, and functional restoration of paralyzed limbs. Students will interact with both engineers and medical professionals. Students will have the chance to develop relationships with people with various movement disabilities caused by amputation, stroke, spinal cord injury, and other neuromuscular conditions. Students in all engineering disciplines, computer science, math, or physics are welcome to apply.

Roles and Responsibilities
You will be immersed in a community of undergraduate researchers, graduate students, engineering mentors, health care professionals, and, most importantly, people with disabilities. Together you will work on research projects to restore movement to people with paralyzed arms, develop new prosthetic legs, help improve balance in older adults, and explore the mechanics of injured joints.

Education and Qualifications
Must be an undergraduate in engineering, science, math, technology, or computer science. Must be a U.S. citizen or permanent resident.

How to Apply
https://www.csuohio.edu/engineering/recsu/application-information

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