Faculty Project: Computer Science

Title of Project: Video-based Mouse Replacement Systems & Interface Research for People with Severe Motion Disabilities

Main Contact: John Magee, jmagee@clarku.edu

Deadline: April 8, 2017

Duration: Minimum of 180 hours
Projected dates: end of May through July. Start/End Negotiable

Location: Boston University Computer Science Lab
Some work may be completed at Clark University. Travel to work with people with disabilities in various locations in Boston or Worcester is likely

Position Description:
Students will complete a research project aimed at helping people with severe motion disabilities use a computer through a video-based mouse replacement interface called the Camera Mouse. The specifics of the project will be based on the student’s interests and experience.

Most of the project time will be at a computer science laboratory at Boston University where the student will interact with other researchers and graduate students.

Students should expect to contribute approximately 10 weeks full time to this project.
Specific deliverables include: software that can be used by people with disabilities or in research involving people with disabilities, analysis of experimental investigations, presentation at regional undergraduate conferences such as the New England Undergraduate Computing Symposium, and preparation of papers for submission to research conferences.

Qualifications:
Computer Science experience requires minimum CS120 and CS121 or equivalent. Programming in one or more programming languages. Preference for students with computer vision and/or human-computer interaction experience.

Housing: Housing will not be provided. Students are responsible for finding their own housing.

For more info: Please, visit: http://www.cs.clarku.edu/~jmagee/research.html

Funding: $3000 (see details above)

How to Apply:
Please send cover letter, resume, and unofficial transcript to Prof. John Magee, jmagee@clarku.edu

To apply for LEEP Funding and to be considered as a LEEP fellow, students must secure the position and complete the LEEP Fellows Application Process by March 3rd (early decision) and April 14th. Students will be required to submit a resume, cover letter, and a proposal outlining how they will complete their project.
Additional position information is available through Clark Recruiter. (Recommendation letters should be emailed directly to rmaddox@clarku.edu)

About the Organization:
Clark's academic community has long been distinguished by the pursuit of scientific inquiry and humanistic studies, enlivened by a concern for significant social issues. Among many other scholarly endeavors, Clark contributes to understanding human development, assessing relationships between people and the environment, and managing risk in a technological society.

Clark is dedicated to being a dynamic community of learners able to thrive in today’s increasingly interrelated societies. The University maintains a national and international character, attracting high-caliber students and faculty from all quarters of the globe.