FOUR POSITIONS AVAILABLE IN REHABILITATION ENGINEERING

Three PhD positions and one post-doctoral position are immediately available to support a just-awarded 4.6 Million, 5-year grant to establish a Rehabilitation Engineering Research Center (RERC). This RERC is funded by the Department of Health and Human Services, National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) and will focus on patient-centered, mobile technologies to assess and treat sensorimotor impairment in individuals with neurologic injury. These positions are located in Biomedical Engineering at The Catholic University of America, the prime recipient of the award. However the positions will support all aspects of the RERC, including working closely with our collaborating institutions MedStar National Rehabilitation Hospital, Children’s National Health System, and Johns Hopkins University. The RERC involves 6 research and development projects, but these positions will specifically support the following three projects:

1) Home therapy for upper extremity stroke rehabilitation using robotic exoskeletons (Peter Lum, lum@cua.edu)
2) Understanding mechanisms that limit the use of the more-impaired arm post-stroke (Sang Wook Lee, leesw@cua.edu)
3) Home assessment of grasp development in infants at risk for fine motor delays (Sahana Kukke, kukke@cua.edu)

Desirable skills include competence in computer programming, motion capture, robotics, machine learning and virtual reality. While any single candidate is not expected to have expertise in all of these areas, experience in some of these areas is required.

For general questions contact the center director, Dr. Peter Lum (lum@cua.edu). For specific project questions, contact the project PI listed for each project.

Peter Lum, PhD  
Professor and Chair  
Biomedical Engineering  
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