

IMMEDIATE OPENING

Post-Doctoral Position at Case Western Reserve University

A one- to two-year Post-Doctoral Researcher position is available in the **Department of Biomedical Engineering** at **Case Western Reserve University** in Cleveland, OH in the areas of *neurorehabilitation, biomechanical modeling and control system development to improve or restore motor function to individuals with spinal cord injuries (SCI)*.

Work will take place at the Motion Study Laboratory of the Louis Stokes Cleveland VA Medical Center under the direction of rehabilitation biomechanics and motor control experts **Drs. Musa L. Audu** and **Ronald J. Triolo**.

Their teams conduct federally funded research in areas ranging from basic neural control of movement, development of advanced prosthetic and orthotic systems, and wheelchair propulsion mechanics to the design and testing of neuroprostheses for seated and standing balance, and functional control of the paralyzed hip and spine for trunk stability via closed-loop control of neural stimulation.

Areas of focus:

- ◆ Development and optimization of musculoskeletal models for **CONTROL OF SEATED POSTURE AND BALANCE**
- ◆ Laboratory implementation and experimental validation with individuals with all levels of SCI.

Additional mentoring opportunities in rehabilitation strategies, clinical testing and human subject research, dynamic simulation of movement, musculoskeletal modeling, assistive device design, and quantitative analysis of user-device interactions are available from experts at the **Advanced Platform Technology (APT) Center**, a VA Rehabilitation R&D Center. Training will involve interacting with neuroscientists, engineers, neurologists, surgeons and physical medicine and rehabilitation specialists, as well as research volunteers, students and professional staff.

Qualifications:

- ◆ Expertise in musculoskeletal modeling experience is preferred
- ◆ Strong interpersonal and written/oral communication skills are required
- ◆ Experience in human subject research is highly desired
- ◆ US Citizenship or Permanent Residency **strongly** preferred

Please send a personal research statement, full CV, and a list of 3 references to:

CAREERS@APTCENTER.ORG

Refer to this announcement and citizenship status in your reply.

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