



# Exercise Science

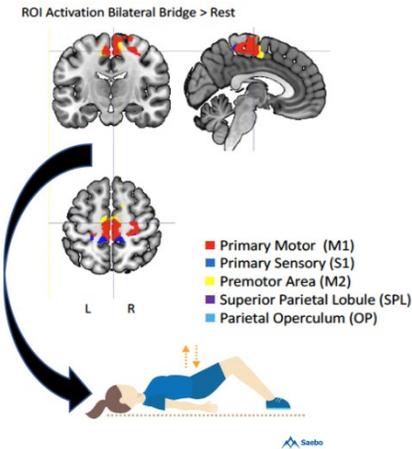
## Arnold School of Public Health

The Applied Neuromechanics Laboratory ([ANM Research Lab](#)) at the University of South Carolina is recruiting a **post-doctoral fellow** and **PhD student** to join a multidisciplinary team investigating neural and mechanical mechanism of movement and postural control by combining neuroscience, biomechanics, and rehabilitation. Our research focuses on the mechanism underlying movement impairment associated with musculoskeletal injury and persistent pain. The team uses biomechanical measures of movement (kinematics, kinetics), muscle activation (EMG), and neuroimaging (fMRI, EEG) to understand sensorimotor behavior.

### Postdoctoral Fellowship

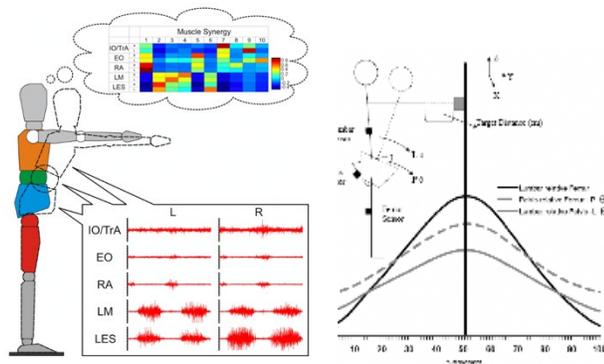
The postdoctoral fellowship position is associated with an NIH R01 investigating the role of sensorimotor cortical integration and pain related cognitive-behaviors on movement impairment in persons with persistent back pain. Candidates must be innovative, possess good communication and organizational skills, and have a solid background in at least one of the identified areas (biomechanics, cognitive neuroscience, or motor control) and must be motivated and capable to engage in other areas of expertise as required by the project.

The successful candidate will have previous experience with human subjects research, neuroimaging and/or human biomechanics. The post-doctoral fellow responsibilities include data collection per protocol, data reduction and analysis, preparation of manuscripts and grant applications. Expectations include development of independent research projects, grant applications, and contributing to mentoring graduate and undergraduate students in the lab. Support is for up to 2 years pending satisfactory performance after year 1. Application to the postdoctoral position should be submitted through <http://uscjobs.sc.edu/postings/87981>.



### PhD in Exercise Science

A funded PhD position is available starting Fall 2021 for a student interested in pursuing research related to movement impairment in persons with musculoskeletal injuries and persistent pain. A background in neuroscience or biomedical engineering is desirable. Students will have the opportunity to gain experience in research methods, capturing and analyzing biomechanical data, neuroimaging, written and oral dissemination of research, grant writing and effective communication within a research team.



To find out more about the PhD program in Exercise Sciences visit: [PhD Program in Exercise Science](#)

Persons interested in either position should contact Dr. Sheri Silfies ([silfies@mailbox.sc.edu](mailto:silfies@mailbox.sc.edu)) for further information.