

Postdoctoral Position: Sensorimotor Integration in Advanced Prosthetic Systems

A postdoctoral position is available in the laboratory of Dr. James Abbas in the Center for Adaptive Neural Systems (<http://www.ans.asu.edu>), School of Biological and Health Systems Engineering at Arizona State University in Tempe, Arizona. The position is supported by an NIH-funded Bioengineering Research Partnership grant for a project to interface prosthetic hands with amputees through a direct peripheral nerve interface for providing sensory feedback. The collaborative effort includes biomedical and electrical engineers from academia, clinicians and industrial partners.

The postdoctoral fellow will focus on experimental evaluation of sensory perception and sensorimotor performance using this novel prosthetic system. This work will require experimental design, software development and extensive analysis of data from sensory and sensorimotor experiments.

Prior experience in neural stimulation research, somatosensory perception and neural control of manipulation is highly desirable. Expertise in programming in Python or Matlab, and experience in statistical analysis of neuromotor data sets are also highly desirable. Familiarity with regulatory requirements for human subject medical device development would be beneficial. The candidate also must be able to demonstrate excellent communication skills and the ability to work as part of a team.

The postdoctoral researcher will interact with faculty, students and other postdoctoral researchers in the Center for Adaptive Neural Systems (<http://ans.asu.edu>) at ASU. ASU has vibrant, interdisciplinary research communities in neuromotor control, neuroengineering, prostheses, neuroinformatics, high-performance computing, neuroscience, and kinesiology.

Candidates should send a curriculum vitae, a summary of research experience and interests, and the contact information (name, address, phone number and email) for three references to: Dr. James Abbas at james.abbas@asu.edu

The Center for Adaptive Neural Systems (<http://ans.asu.edu>) is focused on developing and applying new technology to address the complex problems presented by neurological disability. The scope of the Center's activities includes the design and development of new technology, the evaluation of technology in pre-clinical trials, and the transfer of these technologies to biomedical industry and clinical practice. Our multi-disciplinary research group includes biomedical engineers, kinesiologists, neuroscientists, mathematicians and clinicians.

Positions are open now and applications will continue to be reviewed until positions are filled. Arizona State University is an Equal Opportunity/Affirmative Action Employer institution.