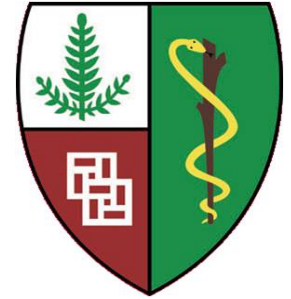# Postdoctoral Fellowship and Research Associate Positions in Transcranial Magnetic Stimulation (TMS) in Pain Research

Stanford Systems Neuroscience and Pain Lab
Division of Pain Medicine, Department of Anesthesia
Stanford University School of Medicine

Program Description:

Dr. Sean Mackey's Systems Neuroscience and Pain Laboratory at Stanford University is currently accepting applications for a postdoctoral research fellow and/or research associate to advance Transcranial Magnetic Stimulation (TMS) in chronic pain. Our lab uses state of the art technologies, including TMS, fMRI, and structural MRI, and has had a growing focus in machine learning techniques applied to neuroimaging, psychophysics and genetics. The primary role will be to advance the use of TMS to understand and treat pain. Additionally, the candidate will have the opportunity to interact with a large and growing group of interdisciplinary Stanford researchers involved with multiple studies involving acute and chronic pain including: real-time fMRI control of brain activity, spinal cord fMRI, pharmacologic fMRI, individual difference in pain and cognitive/affective dimensions of pain.

Qualifications:

Applicants should have (or anticipate having) a Ph.D. and research background in Cognitive Neuroscience, Neurophysiology, Neuropsychology, or related fields. MD or other graduate-level applicants are also encouraged to apply and should have applicable research experience. Individuals with backgrounds in Electrical Engineering, Physics, Mathematics, Computer Science or similar fields and a strong interest/background in human neuroimaging are also encouraged to apply. Applicants should be experienced at conducting TMS studies, and additional experience with neuroimaging (MRI, fMRI) is preferred. Some experience with software packages such as SPM, FSL, AFNI, and Matlab is preferred. Experience with presentation software (such as E-Prime) and other programming languages such as C a plus, but not a requirement. Applicants should also possess strong interpersonal skills and be able to work independently with minimal supervision.

The postdoctoral fellow will be responsible for conducting ongoing TMS projects, analyzing neuroimaging data, as well as planning and conducting future studies. Duties will also include manuscript preparation and management of research assistants. The most successful applicants will have a demonstrated interest in pursuing publication and grant opportunities. Facilities include multiple research-dedicated 3T MR scanners and a 7T full-bore MR scanner, as well as near-infrared spectroscopy and transcranial magnetic stimulation. Salary commensurate with experience. More information about our ongoing studies can be found on the web pages: http://snapl.stanford.edu

Applications:

To apply, visit http://snapl.stanford.edu/postdoc for the T32 Fellowship Application and instructions

Applications are due by May 1st, 2014

Applications will continue to be accepted past the deadline, but will be subject to availability of alternate funding mechanisms – for thorough consideration, apply as soon as possible.