Postdoctoral Research Fellow

The Department of Physical Medicine and Rehabilitation is seeking a post-doctoral researcher to conduct research on rehabilitation of patients with neurological injury and disease. The primary research focus of our laboratory is developing novel treatment strategies for recovery of motor and language functions in patients with stroke, spinal cord injury and traumatic brain injury. Novel treatment protocols are targeting combination of neuromodulation methods such as non-invasive brain stimulation with transcranial direct current stimulation (tDCS) and transcranial magnetic stimulation (TMS), or pharmaceutical agents with robotic-assisted training or exercise training. In addition our lab is focusing on understanding of mechanism of neuronal and functional recovery. We are using structural and functional magnetic resonance imaging and neurophysiological methods to measure changes in the functions and central nerve system.

The faculty mentor for this position will be Gerard E. Francisco, MD, Director of TIRR Memorial Hermann NeuroRecovery Research Center and Clinical Professor and Chair of Physical Medicine and Rehabilitation at University of Texas Health Science Center at Houston. In addition the postdoc will have the opportunity to work and interact with different leading researchers from UTHealth, Rice University and University of Houston. The projects are funded by NIH, local and national non-profit funding organizations, industry and by the department of PM&R.

REQUIREMENTS:

- PhD degrees
- Experience in the following areas: non-invasive brain stimulation with tDCS and TMS.
- Familiar with neuroimaging techniques, particularly with diffusion tensor imaging (DTI) and functional MRI; neurophysiological techniques particularly with EEG and spinal reflexes
- Advanced neuroanatomy knowledge, basic knowledge in pathophysiology of stroke, spinal cord injury and traumatic brain injury
- Evidence of published peer-reviewed research

Interested individuals should send their resume to: Nuray Yozbatiran, PhD by e-mail to: Nuray.Yozbatiran@uth.tmc.edu email address. Applicants should include a cover letter describing their background and research interest, CV, and the contact information for three references.

Position is to start August 1, 2016

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