Post-Doctoral Position

Investigating neuromodulatory effects of Deep Brain Stimulation using fMRI

A post-doctoral position with competitive salary is available at the Department of Radiology, Feinberg School of Medicine of Northwestern University. The project is focused on analyzing altered patterns of functional connectivity of cortico-striatal loops in patients with advanced Parkinson’s Disease who undergo deep brain stimulation (DBS) surgery. Using ground-breaking MRI coil technology, we will acquire fMRI scans before and after DBS implantation to assess the neuro-modulatory effects of DBS in each individual.

The ideal candidate should hold a PhD in Neuroscience, Psychology, Engineering or a related field with strong proficiency in various neuroimaging analysis platforms, multivariate modeling and connectivity toolboxes. The candidate should have established quantitative and statistical skills, including programming and comfort with diverse computing environments, and demonstrated capacity to drive first author publications.

The Department of Radiology is located in the heart of downtown Chicago. We are a dynamic team of physicists, engineers, neuroscientists and neurosurgeons conducting cutting-edge imaging research in a 9,000 square foot center that houses state-of-the-art research-dedicated Prisma 3.0 Tesla, two Tim Trio 3.0 Tesla and 1.5 Tesla Siemens Medical MR scanners and a 7.0 Tesla Bruker scanner. There is also a Siemens C-ARM angiographic system, a Nexstim Transcranial Magnetic Stimulation (TMS) machine and an MR simulator system that can be used to train subjects to the magnet environment. Successful applicants will work on multidisciplinary NIH-funded projects with a close collaboration with the US Food and Drug Administration (FDA).

We invite motivated enthusiastic applicants with a related background to apply. Interested applicants should send a cover letter describing research experience and career goals, an up-to-date curriculum vitae containing contact information for three references, as well as copies of three representative publications to Prof. Laleh Golestani Rad, Ph.D., by email: Laleh.rad1@Northwestern.edu.