Postdoctoral Fellow in Neuroimaging
Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital
McLean Imaging Center, McLean Hospital
Harvard Medical School

Postdoctoral fellow or research associate positions are opening in the McLean Imaging Center at McLean Hospital and Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School. The candidates will participate in studies with MRI/MRS technique developments with translational imaging. The primary focus of research will be on the cutting-edge neuroimaging approach development and neuropsychiatric disorders study to explore the convergent evidence and imaging/molecular biomarkers on immuno-oxidative pathway, brain circuits and E/I balance associated with alterations of brain structure, function, metabolism and glymphatic system during the disease progression.

The major work will be on 7T Siemens human scanners at the Martinos Center to design, program and implement data acquisition protocols. The Imaging Center at McLean Hospital also has the state-of-art facility including two Siemens 3T scanners (Prisma), a Varian 4T human whole-body MRI scanner and a 9.4T horizontal animal imaging system. All these instruments also are available. We are looking for postdoctoral fellows or research associate with skills and passion in one or more of the following:

1. Pulse sequence development. Experience with siemens console is desired but not necessary.
2. Imaging data processing. Multimodal neuroimaging (T1/T2, DTI, ASL, fMRI, and MRS) collected to outline the trajectories of biological development and to identify biomarkers for the disease’ progression, treatment engaged targets and response.

The candidates should have a background in biomedical engineering, physics, neuroscience, or a related discipline with experience in MRI/MRS. Expertise with MATLAB or Python and imaging or spectroscopy data analysis such as FSL, SPM, LCmodel are highly desired.

The positions are available immediately and salary is competitive and commensurate with experience. The candidate will work with a large multidisciplinary team of imaging physicists and clinical physicians to extend the boundaries of knowledge about state-of-art neuroimaging and neuropsychiatric disorders through innovative research. The candidates will be able to develop their own interests for grant applications and develop a strong network of collaborators in Mclean and MGH (Mass General Brigham), Harvard Medical School.

To be considered for this position, please send your CV, a cover letter with a statement of research interests, and three references to:

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Associate Professor, Harvard Medical School
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