



Icahn  
School of  
Medicine at  
Mount  
Sinai

*BioMedical Engineering  
and Imaging Institute*

## Postdoctoral Fellow in Neuroimaging (Icahn School of Medicine at Mount Sinai, New York, NY)

The BioMedical Engineering and Imaging Institute (BMEII) at The Icahn School of Medicine at Mount Sinai is seeking a motivated Postdoctoral Fellow to develop and apply novel MRI techniques in neuroimaging. This is an excellent opportunity to conduct innovative MR research as a member of a team of technical and clinical experts with access to state-of-the-art imaging equipment housed at the Hess Center for Science and Medicine in New York City. (<https://bmeiisinai.org/about-us-2/>)

Position responsibilities include independent research, contributions to publications and grants, and leadership roles within the Institute. Opportunities for teaching also exist. The candidate will primarily work on development of chemical exchange saturation transfer MRI techniques to image glucose and its derivatives in neurodegenerative diseases at 7T and 3T. The work will consist of MR pulse sequence design and implementation, image acquisition on patients and healthy volunteers and post-processing of imaging data. The postdoctoral fellow is also encouraged to develop her/his own research projects within the mission areas of the BMEII. The candidate should have a PhD in either Engineering, Physics, Chemistry, Mathematics, Computer Science or a related field. Demonstrated research experience and publication record are necessary. Experience with Siemens IDEA and ICE environments is preferred.

Salary will be commensurate with experience and the cost of living in New York. Subsidized housing close to the Mount Sinai campus is available.

The BioMedical Engineering and Imaging Institute at Mount Sinai is a state-of-the-art research facility with a mission centered around development, validation, translation and education of innovative technology in biomedical imaging to address both basic and clinical research problems. The center currently houses multiple research dedicated instrumentation, including 3T and 7T human MRI scanners, 3T PET/MR, PET/CT, 9.4T and 7T small animal MRI scanners. Along with the material resources, the BMEII has over 45 members with expertise in a variety of translational research, from neuroimaging to nanomedicine. The Icahn School of Medicine at Mount Sinai attracts outstanding scientists, clinicians and students, all of whom share a deep commitment to expanding biomedical knowledge, providing expert clinical care and serving the community. Working in close partnership with The Mount Sinai Hospital, the Icahn School of Medicine serves one of the most diverse and complex patient populations in the world.

The postdoctoral position at BMEII is a full-time research position. Initial appointment will be for one year with renewable appointments for subsequent years. Interested individuals should send a CV, a brief statement of interests, and a list of referees to Dr. Xiang Xu ([xiang.xu@mssm.edu](mailto:xiang.xu@mssm.edu)). The position is immediately available until filled.