



TMII
Translational and Molecular Imaging Institute

Postdoctoral Scholar

(Icahn School of Medicine at Mount Sinai, New York, NY)

The Translational and Molecular Imaging Institute (TMII) at The Icahn School of Medicine at Mount Sinai is seeking a **Postdoctoral Scholar or Research Associate** 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 in the Hess Center for Science and Medicine. The position will be in the high field neuroimaging and spectroscopy group led by Dr. Priti Balchandani, Director of Neuroimaging Research at TMII.

Position responsibilities include independent research, contributions to publications and grants, and leadership roles within the new Institute. Opportunities for teaching also exist. The candidate should have a PhD in Engineering, Physics, Neuroscience, Mathematics, Computer Science or a related field. A significant portion of the work will be development of **novel imaging techniques for the human 7T MRI scanner and application to improved neurosurgical planning for brain tumors. Work will consist of pulse sequence programming and development, acquisition of image data on patients and healthy volunteers, analysis of acquired anatomical and diffusion MR images, and integration into surgical planning through collaboration with neurosurgeons.**

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

The Translational and Molecular Imaging Institute is advancing the science of imaging, from the development of new visualization technology to improved contrast agents. The brain imaging program uses cutting-edge instrumentation, including **multiple research-dedicated human systems (7T, 3T, integrated MR/PET, PET/CT, MDCTs)**, among other instruments. These imaging capabilities are housed in a 30,000 sq ft state-of-the-art imaging facility. TMII is directed by Dr. Zahi Fayad, a leader in multimodal cardiovascular imaging, and consists of several faculty members with research interests ranging from neuroimaging to nanomedicine.

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.

Please send a CV and brief statement of research interests to Dr. Priti Balchandani at priti.balchandani@mssm.edu.