



TMII
Translational and Molecular Imaging Institute

Instructor

(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 an **MR physics Instructor level faculty member to develop and translate new neuroimaging acquisition and analysis methods and provide technical support for new and existing MR imaging projects**. As part of the TMII, the candidate will have access cutting-edge instrumentation, including multiple research-dedicated systems including the Siemens: 7T, 3T, 1.5T, MR/PET, PET/CT, MDCT, among other instruments. They will have the opportunity to interact with a diverse team of investigators with complementary expertise in neuroimaging, cardiovascular imaging, neurosurgery, and neuroscience.

This is an excellent opportunity to perform exciting collaborative science in neuroimaging and be an integral member of a leading-edge brain imaging program. The candidate will primarily be in a scientific support role and will have ample opportunity to publish as a co-author. The position will be supported through collaborative grants and institutional funds with 10-20% of their time available for independent research projects in neuroimaging.

Specifically, this individual will be developing, troubleshooting and translating MR pulse sequences for ongoing neuroimaging research at Mount Sinai. The work will be primarily on Siemens 3T and 7T human MRI scanners. He/she will have the opportunity to work with researchers in Radiology, Neuroscience, Psychiatry and Neurology.

The candidate must have a PhD in Computer Science, Engineering, Neuroscience, Physics, Mathematics or a related field and some experience in MR image acquisition and analysis. In particular, experience in MR pulse sequence programming and troubleshooting for both standard and research MR acquisition methods is required. Application to neuroimaging, including functional MRI and diffusion MRI is strongly preferred. Intermediate and preferably advanced scripting/programming skills in Python or MATLAB are also a plus.

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. Immersed in this environment TMII offers unprecedented opportunities to bridge the gap between novel imaging methods and direct clinical application.

Please send a CV and brief statement of research interests and experience to Dr. Priti Balchandani, Director of the Advanced Neuroimaging Research Program, at priti.balchandani@mssm.edu.