The Biomedical Engineering and Imaging Institute (BMEII) at the Icahn School of Medicine at Mount Sinai is seeking a Senior Scientist to perform novel neuroimaging research and lead the In Vivo Imaging Core at BMEII. Specific areas of research include advanced acquisition and analysis methods for functional MRI and diffusion MRI of the brain to study neurological and psychiatric diseases. Knowledge of and research experience in other novel neuroimaging methods would be beneficial. The imaging core consists of several human imaging scanners (3T, 7T, PET & CT) as well as a microimaging facility (micro 7T, 9.4T, micro-ultrasound, biophotonics & micro PET/CT).

Responsibilities:

- Play a key role in building expertise in developing cutting-edge techniques for neuroimaging. Facilitate translational applications of technical innovations in humans.
- Perform the administrative role of managing the image analysis core.
  - Supervise the image analysis core staff in advanced MRI.
  - Advise and collaborate with faculty to develop imaging protocols and advise users in the design of imaging experiments to select the best protocols to answer a scientific question.
  - Advise faculty in image analysis metrics and pipelines.
  - Assist in the day-to-day operations of the imaging facility.
  - Oversee maintenance of imaging equipment and related peripherals.
  - Follow strategic research goals and manage, train and advice a team of scientists.
- Work with various faculty within BMEII to develop strategic plans for instrument purchases, maintenance, and space allocation.
- Collaborate with other faculty to provide advanced imaging methods for interdisciplinary research.
- Contribute in essential ways to the growth of NIH funded neuroimaging research projects and build collaborative ties with investigators in Psychiatry, Neuroscience, Neurology and Neurosurgery.
- Generate and contribute to high impact journal publications
- Act as mentor and co-mentor to students and postdoctoral fellows within BMEII.
Qualifications:

- Ph.D. in related scientific field
- Knowledge and experience in fMRI, and DTI
- MRS and PET imaging experience a plus
- Knowledge of neuroimaging applications with emphasis on experimental design and analysis.
- 1-3 years of experience in the field of MRI/Neuroimaging
- Management experience in a research setting.
- Strong communication skills.

Interested individuals should send a CV and a brief statement of interests to Dr. Zahi A. Fayad (zahi.fayad@mssm.edu)