

**Director of Imaging Core**  
**Assistant, Associate or Full Professor**  
**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 faculty member at the level of Assistant, Associate or Full Professor 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.
  - Manage the image analysis core staff.
  - 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.
- Establish a research program in advanced MRI and translation to neurological diseases
  - Set the strategic research goals and manage, train and advise a team of scientists.
  - Secure independent research funding from NIH and other sources.
- 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 scholars within BMEII.

Desired qualifications:

- Ph.D. in related scientific field
- Knowledge of neuroimaging applications with emphasis on experimental design and analysis.
- Knowledge of and experience in advanced fMRI, DTI and MRS is a plus.
- Strong management and communication skills.

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