



Icahn
School of
Medicine at
Mount
Sinai

*BioMedical Engineering
and Imaging Institute*

Associate Researcher (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 an Associate Researcher for BMEII's Imaging Core Group. 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:

- Responsible for imaging data collection, processing, analysis using commercially available and proprietary registration and image analysis software
- Provide and maintain databases for acquired data including analysis of scans; Provide accessibility to researchers while complying with HIPAA standards
- Work with research teams in compilation of data; Provide guidance in data acquisition and analysis
- Under limited supervision, conduct experiments using advanced techniques specific to the research project; Analyze and assist in interpreting moderately complex results.

Job Qualifications include:

- Bachelor's degree in Science or Engineering with relevant medical experience. Master's, or PhD is a plus
- Prior experience with medical image analysis or other relevant computer data analysis is a plus
- Extensive knowledge of neuroimaging and computational neuroscience software packages such as FSL, Freesurfer, SPM, etc.
- Experience with fMRI analysis and constructing and optimizing analysis pipelines.
- Fluency in multiple programming languages (including MATLAB, Python, R) and the ability to quickly learn new programming languages and tools as required
- Experience with the architecture, design, and implementation of the software and hardware computational frameworks for neuroimaging, including familiarity with XNAT/ DICOM file processing and NiFTI-1 file processing
- Experience with command-line development tools in a Linux environment
- Extensive experience with supporting life sciences research, including neuroscience and neuroimaging research
- Experience with administrating core facility management software systems (Calpendo, XNAT)
- Some knowledge with relational databases (MySQL)
- Willing to commit 2 years at a minimum
- Good organizational skills; ability to work with others and individually
- Performs other related duties

BMEII at Mount Sinai is a state-of-the-art research facility with a mission centered on 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, BMEII has over 60 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.

Interested individuals should send a CV to Christopher Cannistraci (christopher.cannistraci@mssm.edu). The position is immediately available until filled.