Two Post-Doctoral Fellows in MRI

Applicants are invited to apply for these NIH-funded multi-year research positions at the Center for Biomedical Imaging (CBI) of New York University (NYU) Grossman School of Medicine, New York, New York, USA. The successful candidate will join a multidisciplinary research team consisting of PhDs/MDs and focusing on development of innovative MRI technologies related to quantum sensing/computing MRI, dynamic sodium (^{23}Na) imaging, diffusion tensor imaging, and functional MRI with EEG; and on clinical applications mainly to neurological disorders including Alzheimer's disease, mild traumatic brain injury (mTBI), and brain tumors. The primary project work is to understand the mechanism of neurodegeneration in humans during aging, injury, dementia, and sleep; and to develop biomarkers for non-invasive assessment of the progression of these pathological conditions and the early response to treatments.

Applicants should have a Ph.D. degree in physical sciences, biomedical engineering, electrical engineering, computer science, or mathematics. Preference will be given to those who have well-established background and track record in MRI pulse sequence, image reconstruction, and functional data process and analysis; proficiency in scientific computing with MATLAB and C++; and/or a record of peer-reviewed journal publications.

For career development, independent research projects relevant to MRI will be encouraged for self-motivated innovative candidates, with potential helps for developing external grant proposals.

The Center for Biomedical Imaging is located in midtown Manhattan, New York City. It hosts the Center for Advanced Imaging Innovation and Research (CAI2R), funded by an NIH P41 grant, within the NYU Department of Radiology. This arrangement brings together a vast assembly of senior and support personnel, and the state-of-the-art technological resources related to basic science and clinical applications, including Siemens whole-body MRI scanners at 0.55T, 3T and 7T, MR/PET, and world-renowned well-staffed RF coil laboratory.

Salary is commensurate with expertise and/or experience, and includes a comprehensive benefits package. Subsidized housing within walking distance to the CBI may be offered depending on availability. A multi-year time commitment is expected, with a possible extension.

For further information, please contact Yongxian Qian, PhD or Yvonne W. Lui, MD. For application, please send your CV, statement of research interests, and contact information of three references to: Yongxian.Qian@nyulangone.org and Yvonne.Lui@nyulangone.org , with subject title "**PostDoc MRI**"