Post-Doctoral Fellow in Sodium MRI

Applicants are invited to apply for an NIH-funded multi-year research position at the Center for Biomedical Imaging (CBI) in the New York University (NYU) Grossman School of Medicine, New York, New York, USA. The successful candidate will join a multidisciplinary research team focusing on technology development of dynamic sodium ($^{23}$Na) MRI and MRI-compatible EEG for clinical studies on cerebrospinal fluid (CSF) clearance in the human brain. The primary project work is to build three-dimensional velocity field of CSF flow in the brain and evaluate alterations during aging, sleep, and early development of Alzheimer’s disease.

Applicants should have a Ph.D. degree in physics, 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 and image reconstruction, proficiency in scientific computing with MATLAB and C++, and 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 at 3T, 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 Dr. Yongxian Qian. For application, please send your CV, statement of research interests, and contact information of three references to:

Yongxian Qian, PhD  
Email: Yongxian.Qian@nyulangone.org  
With subject title “Post-Doc MRI”