Postdoctoral Scholar in MRI technology development

Postdoctoral Scholar positions in MRI research are immediately available at the Department of Radiology of Northwestern University Feinberg School of Medicine to participate in the projects, including but are not limited to: (1) High resolution dynamic MR imaging with advanced image acquisition and image reconstruction; (2) Novel MRI techniques for the assessment of brain hemodynamics; (3) Advanced arterial spin labeling (ASL) development; (4) AI in image reconstruction and processing. The successful candidate will get training and participate in MRI pulse sequence programming, image reconstruction, and image processing in neurovascular imaging.

Research Environment:
Northwestern University offers a multidisciplinary research environment. This position will provide a valuable opportunity to work and collaborate with a multidisciplinary MRI research group including MR physicists, engineers, radiologists, physician-scientists, neurosurgeons, and neurologists. The Center for Translational Imaging (CTI) as the imaging core facility at the Radiology department of Northwestern University houses five research-dedicated MR systems, including two Siemens Prisma 3T equipped with 20/32/64 channel head coils, two Siemens 1.5T, and one pre-clinical 7T. There are >15 clinical MR scanners as well as PET-MRI systems located within Northwestern Memorial Hospital. Additionally, there is a longstanding research collaboration with Siemens MR R&D, providing strong support for MRI pulse sequence programming and clinical translations.

Preferred Qualifications:
- PhD in bioengineering, physics, electrical engineering, or related disciplines within the past 5 years.
- Prior research experience in MR physics, pulse sequence programming, and/or image reconstruction algorithms. (Pulse sequence programming on the Siemens platform will be beneficial but not required)
- Proficient in programming, such as C++, Matlab, and Python.
- High self-motivation and good communication and writing skills.

To apply:
Please email your current curriculum vitae, a brief statement of research experience and interests, and a list of three references with contact information to Dr. Lirong Yan, lirong.yan@northwestern.edu