



EMORY
UNIVERSITY
SCHOOL OF
MEDICINE

Department of Radiology and Imaging Sciences
Magnetic Resonance Research Center

Postdoctoral Fellow at Emory University

The Department of Radiology and Imaging Sciences of Emory University is seeking a postdoctoral fellow to work on the development and application of novel MRI techniques focusing on neuroimaging. The position provides excellent opportunity to work in an interdisciplinary environment and have close interactions with MR physicists, radiologists, neurologist and neuroscientists. Accesses are available to two dedicated research MR 3T Siemens Tim-Trio scanners (upgrades to PRISMA scheduled for both systems by the end of the year), one 9.4T animal scanner, and a powerful computer-cluster. Close collaboration with the Emory University Hospital, which houses a clinical 3T Siemens Tim-Trio and five 1.5T MR scanners, allows easy translation of technical developments to clinical settings.

The qualifications of a successful candidate should include

- A PhD degree in Electrical Engineering, Biomedical Engineering, Physics, or other related fields
- Strong background in signal processing, image processing and quantitative analysis. Excellent proficiency with Matlab and/or C/C++ programming language.
- Demonstrated independent research capabilities and good organizational and inter-personal skills.

Previous experience with medical image processing is desirable; experiences with MRI scan operation and pulse sequence programming are a plus.

The candidate is expected to work on projects involving performing image processing using existing tools and development of new methodologies. Potential research projects depend on the mutual interests of the candidate and the PI. These may include but are not limited to: (1) reconstruction and analysis methods for quantitative susceptibility mapping (QSM), (2) quantification and analysis methods for arterial spin labeling, dynamic susceptibility contrast imaging and diffusion imaging.

Emory University provides competitive salaries commensurate with experience. Postdoctoral fellows at Emory also receive an additional fund for professional development activities.

To apply, please send your CV and two letters of recommendation to Dr. Deqiang Qiu (dqiu3@emory.edu).