



EMORY
UNIVERSITY
SCHOOL OF
MEDICINE

Department of Radiology and Imaging Sciences
Magnetic Resonance Research Center

Postdoctoral Fellow at Emory University

The Departments of Medicine and of Radiology and Imaging Sciences at Emory University is seeking a postdoctoral fellow to work with a team of physicians and neuroscientists focused on neuroimaging (MRI: Arterial Spin Labeling and cerebrovascular reactivity). The position provides excellent opportunity to work in an interdisciplinary environment and have close interactions with MR physicists, radiologists, neurologist, internists and neuroscientists. Accesses are available to two dedicated research MR 3T Siemens Tim-Trio scanners, 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 experiences with medical image processing including freesrufer, FSL and SPM are desirable;

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) analyzing CO₂-vasoreactivity images; (2) reconstruction and analysis methods for quantitative susceptibility mapping (QSM), (3) quantification and analysis methods for arterial spin labeling, dynamic susceptibility contrast imaging and diffusion imaging. Plans to obtain independent funding is highly desirable.

Emory University provides competitive salaries commensurate with experience. This position is funded by NIH grants for at least 5 years.

To apply, please send your CV to Ihab Hajjar, MD (ihajjar@emory.edu) and Deqiang Qiu, PhD (dqiu3@emory.edu).