

Postdoctoral Fellow at Emory University

The Department of Neurology and the Brain, Stress, Hypertension, and Aging program (B-SHARP) are seeking a postdoctoral fellow to work with a team of physicians and neuroscientists focused on neuroimaging. The position provides excellent opportunity to work in an interdisciplinary environment and have close interactions with MR physicists and neuroscientists. Accesses are available to two dedicated research MR 3T Siemens Tim-Trio scanners 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 neuroscientific 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 free-surfer, FSL and SPM are **required**.

The candidate is expected to work semi-independent with supervision and training on performing image processing using existing tools and development of new methodologies. Potential research projects include but are not limited to: (1) analyzing CO₂-vasoreactivity images; (2) analysis of resting state images and Flair-based White matter hyperintensities; (3) quantification and analysis methods for arterial spin labeling, dynamic susceptibility contrast imaging and diffusion tensor imaging. Plans to obtain independent funding is highly desirable after initial period.

This position is funded by NIH grants and will follow NIH guidelines for compensations.

Interested applicants can email Dr. Ihab Hajjar at ihabhajjar@emory.edu.

To apply, please go to <https://faculty-emory.icims.com/jobs/21114/post-doctoral-fellow--department-of-neurology-neuroimaging/job?hub=13&mobile=false&width=1150&height=500&bga=true&needsRedirect=false&jan1offset=-300&jun1offset=-240>
Emory iCIMS Job number 21114