Advanced fMRI Applications Postdoctoral Fellow Position
Urbana, IL

Carle Health is looking to hire a postdoctoral fellow in Advanced fMRI Applications at the Stephens Family Clinical Research Institute in Urbana, Illinois for a three-year position.

Based in Urbana, IL, Carle Health is vertically integrated with more than 11,000 employees in its hospitals, a multi-specialty physician group, health plans and associated healthcare businesses including the Carle Illinois College of Medicine, the world’s first engineering-based medical school. Carle is proud to be named a Great Place to Work®. Carle Foundation Hospital ranks as one of America’s 50 Best Hospitals by Healthgrades and for more than 10 years has held Magnet® designation, the nation’s highest honor for nursing care. The position is in the Carle Illinois Advanced Imaging Center (CI AIC), a collaborative effort of Carle and the University of Illinois at Urbana-Champaign (UIUC), in the research group of Sheeba Arnold Anteraper, PhD, clinical investigator, CI AIC.

The post-doctoral researcher will work with Dr. Anteraper and others at the CI-AIC in developing advanced fMRI analysis pipelines for structural and functional connectivity. Primary responsibilities will be in designing, executing, and analyzing data from neuroimaging studies, and writing papers reporting the findings. Depending on the interests of the applications there will be plenty of opportunities to participate in multi-modal neuroimaging research focused on gaining new insights into the functional and structural neuroanatomy of the human brain in health and disease.

In addition to working directly with Dr. Anteraper, the post-doctoral researcher will have the opportunity to work with the Director of Clinical Imaging Research at the SFCRI, 7T MRI staff scientist, and a large team of collaborators at the Beckman Institute for Advanced Science and Technology at the UIUC. Scientific exploration at the Beckman Institute is centered around three broad research themes: The Intelligent Systems Research Theme focused on understanding the brain, cognition, and behavior from the molecular and cellular levels to higher cognitive functions such as memory, attention, and decision making; The Integrative Imaging Research Theme focused on the interdisciplinary discovery of fundamental principles in imaging science, and developing new technologies for the next generation of imaging instruments and novel techniques for basic and translational research; and The Molecular Science and Engineering Research Theme which brings together scientists from biology, engineering, physics, and chemistry to study molecular structures and processes. In support of these themes, the Beckman Institute houses two major research core facilities, the Biomedical Imaging Center and the Imaging Technology Group, and provides scientific programming and investigator support services.

Previous experience and requirements:

The position requires a PhD in MR Physics, Computational Neuroscience, Psychology, Biomedical Engineering or a related discipline. The ideal candidate should have strong computational skills and MRI data processing experience. Applicants skilled in the use of scientific computing software, including experience with data analysis package such as MATLAB, Python, FSL, SPM, AFNI, FreeSurfer or TrackVis will be given priority.

Application process:

Interested candidates should provide the following: CV, contact information of three references, and a cover letter describing background, interests, and research goals to:

Katie Schroeder, Carle Provider Career Liaison

Email: katie.schroeder@carle.com