Post-doctoral fellow in physiological and functional MRI

The Department of Radiology at Johns Hopkins University School of Medicine is seeking a post-doctoral fellow in physiological and functional imaging of the brain. The research is focused on understanding age-related changes in neural and vascular functions, using advanced neuroimaging techniques such as perfusion MRI, fMRI, metabolic imaging, gas-challenge MRI, and electroencephalogram (EEG). The scope of the research will also include the development of new methodologies to measure oxygen extraction fraction, cerebral blood flow, and cerebrovascular function. The fellow will work in a multi-disciplinary research team and will interact with physicists, engineers, radiologists, neurologists, neurosurgeons, pediatricians, cognitive neuroscientists, and neuropsychologists.

The successful candidate will have a Ph.D. in Biomedical Engineering, Biophysics, Neuroscience, Electrical Engineering, or a M.D. in related field. The ideal candidate will have some research background in MR physics, brain physiology, image analysis, and computer skills. Pulse sequence programming skills are optional.

The Johns Hopkins University in partnership with Kennedy Krieger Institute has outstanding infrastructure for MRI and clinically-oriented research. The facility houses 6 research-dedicated human MRI systems, including three Philips 3Ts, one Philips 7T, one Siemens 3T, and one Siemens 1.5T. The facility is also equipped with a number of animal imaging systems.

Interested candidate should send an email to Dr. Peiying Liu at peiying.liu@jhu.edu and Dr. Hanzhang Lu at Hanzhang.lu@jhu.edu with a cover letter highlighting key qualifications/experience and current curriculum vitae.

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