Postdoctoral Fellow or Research Associate

Vascular and Physiologic Imaging Research (VPIR) Lab
Athinoula A. Martinos Center for Biomedical Imaging
Massachusetts General Hospital
Harvard Medical School

Description: We are seeking multiple postdoctoral fellows or research associates with expertise in A) the development and implementation of MRI acquisition techniques, and/or B) the analysis of MR images, for various organs, particularly kidneys and muscles. The successful candidate will work in the Vascular and Physiologic Imaging Research (VPIR) lab supervised by Dr. Jeff L. Zhang and Dr. Vivian S. Lee, and will have opportunities to work with physicians and scientists from various departments including vascular surgery and nephrology. Recently re-established at MGH/HMS, the VPIR lab has been funded by multiple federal grants on body and vascular MRI research, including two newly funded R01s by NIH. The mission of this lab is to improve the diagnosis and therapy of renal and muscle-related diseases with advanced functional imaging techniques. Our current projects involve MRI scans of human subjects and of small animals on Siemens and Bruker scanner systems.

Qualifications: This position requires a PhD degree in an appropriate science or technology major such as Physics, Electrical Engineering, or Bioengineering. The successful candidate must have significant experience in MRI physics and applied research and peer-reviewed publication in the field of MRI and medical imaging. The candidate should be independently capable of developing MRI pulse sequences, conducting imaging experiments (Siemens and/or Bruker), and image analysis under supervision by laboratory leaders. Experience in Siemens IDEA programming is preferred. The successful candidate will be supported strongly to develop own grant funding. The Center provides outstanding administrative support for grant preparation and submission. The successful candidate is expected to work well in a highly collaborative and dynamic environment in the Center and in the MGH/HMS community.

Location: The Athinoula A. Martinos Center for Biomedical Imaging at Massachusetts General Hospital is one of the world's premier research centers devoted to development and application of advanced biomedical imaging technologies. Located on the MGH Research Campus in Charlestown, the Center is home to more than 100 faculty researchers and more than 200 affiliated and visiting faculty, postdoctoral research fellows and graduate students. More details can be found in https://www.nmr.mgh.harvard.edu/about/overview.

Any questions: please contact Jeff Zhang by email: jeff.zhang@mgh.harvard.edu