Post-Doctoral Cardiovascular MR Fellowship
Dept. of Radiology, Northwestern University, Chicago, IL, USA

Post-Doctoral Fellow for Cardiovascular MRI Research: The Cardiovascular MR Imaging Research Group at the Center for Translational Imaging (CTI) within the Department of Radiology at Northwestern University’s Chicago campus has an open position for a post-doctoral fellow for Cardiovascular MRI Research.

The position will be in an active translational research environment blending clinical studies with developments of advanced cardiovascular MR imaging research including, but not limited to, 4D flow MRI, cardiac structure-function MRI, advanced imaging acceleration techniques such as compressed sensing, image reconstruction and machine learning concepts. A currently open project will focus on the development and application of MR imaging methodology and advanced data analysis concepts in patients with atrial fibrillation (AF). Research activities will include the development and implementation of advanced cardiovascular MR imaging techniques (MR pulse sequences) and novel data analysis tools based on bioengineering concepts of cardiovascular physiology and function. Additional projects include imaging acceleration and reconstruction techniques, flow experiments in a model environment, and cardiac MRI for the assessment of atrial and myocardial structure and function.

Qualifications: The applicant should have a PhD in physics, engineering, chemistry, computer science, medical imaging, or a related field. Successful candidates will have a track record of publications and prior work in MR imaging. Additional expertise in cardiovascular imaging, MR pulse sequence programming expertise, and image analysis using Matlab is desirable.

Facilities: The MR research group at Northwestern University is multidisciplinary, including MR physicists, engineers, and cardiovascular diagnostic and interventional radiologists. Additional expertise spans the fields of Informatics, computer science, biostatistics, cardiology, neuroradiology, and cardiac surgery, among others. The Center for Translational Imaging, an imaging core facility at Northwestern University’s Chicago campus, houses two MR systems (1.5T Aera and 3T Skyra) fully dedicated to cardiovascular imaging research. Further, >15 clinical MR scanners located within Northwestern Memorial Hospital and Lurie Children’s Hospital and a close research collaboration with Siemens Cardiovascular MR Research and Development provide the unique opportunity to translate novel cardiovascular imaging techniques into clinical studies and applications.

Please email curriculum vitae to:

http://www cvmri northwestern edu/

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