Faculty Position: The Department of Radiology at Northwestern University Feinberg School of Medicine in Chicago is seeking a full-time, non-tenured appointment at the rank of Research Assistant Professor. The position will be in an active translational research environment blending clinical studies with developments of advanced cardiovascular MR imaging research including 4D flow MRI, cardiac structure-function MRI, and advanced modeling and data analysis concepts. Specific research areas include (1) advancing state-of-the-art non-invasive methods for diagnoses and outcomes prediction for cardiothoracic and heart-valve disease through the development of advanced cardiovascular MRI techniques and advanced data analysis, (2) use of in-vivo MRI and other imaging modalities to explore cardiovascular tissue and fluid mechanics and to develop/validate novel clinical diagnostics, (3) developing experimental in-vitro and in-vivo methods to characterize MRI based analysis of tissue mechanics and fluid dynamics.

Qualifications: Candidates should hold a PhD in physics, engineering, chemistry, computer science, medical imaging, or a related field. Experience in cardiovascular MRI techniques and concepts, pulse sequence development, fluid mechanics, advanced mathematics, mechanics, bio-imaging post-processing, and successful demonstration of extramural funding are essential. Also required is an exemplary record of peer-reviewed publications.

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 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 R&D provide the unique opportunity to translate novel cardiovascular imaging techniques into clinical studies and applications.

This position is a continuing appointment, non-tenure eligible, academic rank determined on qualifications, at the Northwestern University Feinberg School of Medicine. Salary and benefits are highly competitive. The position is available on or before January 2019.

To apply, please follow this link: https://facultyrecruiting.northwestern.edu/apply/Mjkw. Only those applications submitted via this link will be considered.

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

Please direct question to:

Michael Markl, Ph.D.
Lester B. and Frances T. Knight Professor of Cardiac Imaging
Professor of Radiology & Biomedical Engineering
Director Cardiovascular Imaging Research
Northwestern University, Feinberg School of Medicine
737 N. Michigan Avenue Suite 1600, Chicago, IL 60611, USA
email: mmarkl@northwestern.edu