Cardiac Magnetic Resonance Imaging Scientist Faculty Position

The Department of Cardiology at Boston Children’s Hospital is recruiting an MR scientist for a faculty position to conduct research on cardiac MR techniques and their application to congenital and pediatric heart disease. The successful candidate is expected to develop independent research, secure grant funding, and work collaboratively. An academic appointment at Harvard Medical School will be sought at a rank commensurate with qualifications. Guidance and support for pulse sequence creation, technical development, and image analysis will be provided by a community of MR physicists, imaging scientists, and clinicians at Boston Children’s Hospital and Harvard Medical School.

Boston Children’s Hospital has a dedicated cardiac MR scanner (1.5T Philips) and performs over 1,200 cardiac examinations per year. The cardiac MR program has well-established technical and clinical research programs with a strong track record of academic accomplishment. Boston Children's Hospital is ranked the number one pediatric hospital in the nation by U.S. News and World Report. It is home to the world's largest pediatric research enterprise, and it is the leading recipient of pediatric research funding from the National Institutes of Health.

Responsibilities:

- Engage in MR research to improve the care of patients with congenital and pediatric heart disease. Potential realms include blood flow measurement, myocardial tissue characterization, artificial intelligence applications, MRI-based interventional planning, robust cardiac and respiratory motion compensation techniques, fetal cardiac imaging, and image fusion with other modalities.
- Grow the cardiac MR research group by securing extramural funding and attracting graduate students and post-doctoral research fellows.
- Support clinical MR imaging by serving as a resource to optimize image quality and implement novel imaging techniques.
- Teaching MR physics to clinicians and technologists.

Qualifications:

- Ph.D. in biomedical engineering, electrical engineering, physics, or a related discipline.
- Experience with pulse sequence programming.
- Experience in cardiovascular MR research.
- Completion of a post-doctoral fellowship, ideally in cardiac MR, is highly desired.
- Motivation to work with clinicians in a team environment.

Candidates should mail/email their CV, a cover letter describing their qualifications and relevant research experience, and contact information for three references to the addresses below.

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*Boston Children’s Hospital and Harvard Medical School are equal opportunity employers. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability status, protected veteran status, or any other characteristic protected by law. Women and underrepresented minorities are encouraged to apply.*