Faculty, Scientist, and Postdoctoral Research Positions in Magnetic Resonance Imaging and Image Processing

Position description: The Intelligent Medical Imaging (IMAGINE) research group of the Computational Radiology Laboratory at Boston Children's Hospital, Harvard Medical School, has open positions for faculty (Instructor and Assistant Professor levels), MRI Scientists, and postdoctoral research fellows, to engage in multiple research projects that are funded by the National Institutes of Health. The positions are focused on MRI technology development, sequence design and programming, and image processing.

Minimum requirements:

- **PhD** in electrical or biomedical engineering, medical physics, computer science, applied mathematics, or a related field with a research focus on MR physics, signal and image processing, medical imaging, or deep learning
- Demonstrated record of experience in scientific and high-performance programming with C++ and python for image processing
- Track record of high-quality publications in top journals in the field
- Demonstrated analytical, verbal, and scientific writing skills

Highly desired qualifications:

- Experience in developing innovative methods for
  - Magnetic resonance imaging, MR image acquisition and reconstruction
  - MRI pulse sequence programming, ideally on Siemens MRI platforms
  - Deep learning for real-time (medical) image processing
  - Motion and distortion correction in MRI

About: Boston Children's Hospital is ranked #1 in US News ranking of pediatric hospitals in multiple disciplines. It is the primary pediatric teaching hospital of the Harvard Medical School, which is ranked #1 in US News ranking of medical schools. Boston is known globally as a center for innovations in medical science and technology. Projects are funded mainly by grants from the National Institutes of Health, and are in close collaboration with clinicians, scientists, and major industrial partners.

To apply: Interested candidates, please send a full CV with all education and training details, as well as list of publications and skills along with a copy of a technical paper, the desired start date, list and contact information of 3 references, and one paragraph statement of goals to Ali Gholipour at: ali.gholipour@childrens.harvard.edu