



Multiple Postdoctoral positions at Boston Children's Hospital and Harvard Medical School

Position description: We have several immediate openings for highly motivated post-doctoral research fellows to develop novel MRI sequences, reconstruction algorithms and motion correction technologies for projects funded by the National Institutes of Health. The researchers will develop highly innovative imaging and image processing techniques and software tools to acquire and analyze images, correct for motion and distortion, and reconstruct high-resolution images and estimate quantitative model parameters to generate marker of disease in using several quantitative MRI techniques. The researchers will have access to radiologists, MR physicists, will have mentorship from an expert team of principal investigators and will attend courses and seminars offered at Boston Children's Hospital, Harvard Medical School, and Harvard Catalyst.

About Us: Our mission is improving our understanding of the structure and function of the brain and other organs of the human body, to improve our capacity to diagnose and treat disease. We are located at Boston Children's Hospital (BCH), which is ranked #1 in US News ranking of pediatric hospitals. Researchers at these labs are affiliated with Harvard Medical School which is ranked #1 in US News ranking of medical schools. Boston is known as a hub for healthcare and medical innovations, and a beautiful city full of top-rank universities. Opportunities for cross-training and networking are enormous with several top-rank universities (Harvard, MIT, Northeastern, and Boston University), top-rank hospitals and medical research centers, and biotechnology and pharmaceutical companies in the neighborhood.

Minimum requirements

- PhD in electrical or biomedical engineering, computer science, medical physics, or a related field with a research focus on biomedical image computing, magnetic resonance imaging, or MRI physics
- Demonstrated record of high-quality publications in the field
- Demonstrated analytical, verbal, and scientific writing skills

Highly desired qualifications:

- Demonstrated record of high-performance scientific programming
- Experience in one of the following is preferred:
 - Experience in MR pulse sequence development (IDEA or pulseseq)
 - Experience in MR image reconstruction
 - Experience in diffusion or functional MRI analysis
 - Coding skills in C++, or Python

To apply: Please send your CV along with a copy of a technical paper, the desired start date, and two references to Dr. Onur Afacan (onur.afacan@childrens.harvard.edu).