

Postdoctoral Research Fellow Position



MASSACHUSETTS
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CBI

Cardiovascular
Bioengineering
& Imaging Lab

The Cardiovascular Bioengineering & Imaging (CBI) laboratory is seeking a highly motivated postdoctoral research fellow in the field of cardiovascular translational imaging for hire in 2020. The fellow will have the opportunity to drive research projects to evaluate novel heart failure treatments with state-of-art cardiac MRI techniques and develop/advance cutting-edge cardiovascular MRI pulse sequences in both pre-clinical and clinical settings.

The successful candidate will join a vibrant, multi-disciplinary, translational, and collaborative research environment at a world-class institution. Flexibility to pursue research in the candidate's areas of interest and applications for grants and fellowships for career advancement will be supported where applicable.

The Cardiovascular Research Center (CVRC) in the Department of Medicine and Division of Cardiology at MGH in Boston, MA (USA) is a world renown research center dedicated to advancing human health through fundamental scientific investigations into the mechanisms of cardiovascular disease and related metabolic disorders. Its longstanding tradition of pioneering research breakthroughs has led to new treatments for patients with heart disease. Over 100 CVRC physicians and scientists work together to suppress each patient's heart disease, halt its progression, and reverse it. <https://cvrc.massgeneral.org/>

The Martinos Center in the Department of Radiology at MGH is one of the world's premier research centers devoted to development and application of advanced biomedical imaging techniques. Its state-of-the-art imaging facilities include a wide range of tools and capabilities for both pre-clinical and clinical research including three simultaneous PET/MRIs with a cyclotron facility, clinical & high-field MRIs, MEG, EEG, Optical Imaging, Microscopy and others. The Center houses over 200 faculty and postdoctoral members conducting diverse biomedical and neuroimaging research. www.martinos.org

Prof. Christopher Nguyen is leading CBI located in both the CVRC and Martinos Center. CBI is a multi-disciplinary and collaborative research team focused on:

- Development of cardiovascular MRI and optical techniques to investigate microstructure, microvasculature, and metabolism
- Design subject specific biomechanical and electrical modeling of the heart for biomimetic devices
- Evaluate preclinical and translation imaging techniques to study therapeutic mechanisms of heart disease

Requirements

- PhD in Biomedical Engineering, Electrical Engineering, Biophysics or a related field.
- Experience in MRI pulse sequence programming, image reconstruction, and/or image post processing. Prior experience with cardiac MRI is a plus.
- Track record of publications in scientific journals and/or conferences.
- Effective communication skills
- Ability to work both independently and as a team player in a multidisciplinary team.

How to apply:

Interested candidates should send a one-page statement of research interests & career goals and a full CV with contact info for three references to Prof. Chris Nguyen: Christopher.Nguyen@mgh.harvard.edu <http://nguyenlab.mgh.harvard.edu/> Questions and informal inquiries are welcome!

Equal Employment Opportunity: By embracing diverse skills, perspectives and ideas, we choose to lead. Applicants from all backgrounds are strongly encouraged.



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