The **Cardiovascular Magnetic Resonance Center** (CMR) at Beth Israel Deaconess Medical Center and Harvard Medical School is accepting applications for 2 to 3-year postdoctoral research fellowship positions. Established in 1995 as the second such center in the United States, the CMR Center is dedicated to the development and clinical application of CMR imaging to the cardiovascular system. The CMR Center is equipped with a dedicated Siemens 3T Vida system with full access to pulse sequence development and an on-site Siemens scientist. We are particularly looking for candidates with a research interest in one of the following areas of research:

- Development and application of machine learning for cardiac MRI acquisition, reconstruction, and analysis
- Cardiac MR radiomics for diagnosis and prognosis of cardiovascular disease
- Cardiac MRI pulse sequence development in the areas of fast imaging, quantitative imaging, novel contrast mechanisms, and cardiac metabolism
- Development of UTE imaging sequence for lung imaging
- Development of robust cardiac and respiratory motion techniques
- Machine learning modeling of cardiovascular disease diagnosis and prognosis

Applicants are expected to have the following:

- A Ph.D. degree in Computer Science, Electrical Engineering, Biomedical Engineering, Physics or a related field
- Strong programming and analytical skills
- Strong experience and theoretical background in machine learning and statistical analysis
- Background in MR physics
- Experience in Python, MATLAB, and C

Interested candidates should submit a CV and a list of three references to Dr. Reza Nezafat rnezafat@bidmc.harvard.edu.

Beth Israel Deaconess Medical Center is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.