POSTDOCTORAL RESEARCH FELLOW POSITION
Michigan Institute for Imaging Technology and Translation
Department of Radiology, University of Michigan, Ann Arbor

PROJECT DESCRIPTION: The Michigan Institute for Imaging Technology and Translation (MIITT) in the Department of Radiology at the University of Michigan in Ann Arbor is accepting applications for postdoctoral research fellowship positions. The goal of this position is to develop novel acquisition and reconstruction strategies for cardiac MRI applications. The research fellow will work under the mentorship of Dr. Jesse Hamilton in a collaborative group setting at MIITT with multiple faculty, postdoctoral researchers, and student trainees. Specific research projects will include:

- **3D Motion-Resolved MR Fingerprinting** for cardiomyopathy detection and phenotyping
- **Physics-based deep learning** reconstruction algorithms
- **Low field (0.55T) cardiac MRI** using optimized acquisition/reconstruction methods

ENVIRONMENT: The University of Michigan Department of Radiology is a top-rated Department in an outstanding University with demonstrated excellence in medicine, engineering, arts and sciences, and business. MIITT seeks to establish a multidisciplinary team of researchers in the heart of the clinical campus. Researchers in MIITT will have access to 3T, 1.5T, and 0.55T MRI scanners for research purposes.

QUALIFICATIONS (Required) Applicants should have or be close to completing a Ph.D. in Engineering, Physics, Computer Science, or a related field. Previous experience in MRI physics, acquisitions, and reconstruction methods is required. Applicants should also possess strong programming skills in a language such as MATLAB or Python. (Helpful but not required): Candidates who have prior experience with pulse sequence programming, machine/deep learning, cardiovascular imaging, and/or online reconstruction frameworks (e.g., Gadgetron, FIRE) are encouraged to apply.

TO APPLY: Please send a cover letter, CV, and three references to Jesse Hamilton, PhD at hamiljes@med.umich.edu

START DATE: Summer 2022 or later

The University of Michigan is an equal opportunity/affirmative action employer.