A research assistant professor and a post-doctoral fellow position are available at the Departments of Electrical and Computer Engineering and Radiology at the University of Iowa. The main focus of the position is on the development of imaging algorithms and fast sequences for next-generation MR imaging for in-vivo brain and heart studies. The positions will provide a unique opportunity to work on the cutting edge of deep learning, signal processing, and MR pulse-sequences and exploit the power of the state-of-the-art hardware in MRI and other modalities. The positions will provide future opportunities to launch an independent research career in the area of computational MRI, which is an area experiencing rapid growth and extensive collaborative opportunities within the University of Iowa.

The research will be conducted at the computational biomedical imaging group (CBIG) and the Iowa Institute for Biomedical Imaging (IIBI). The IIBI is a joint collaboration between the Iowa Carver College of Medicine and the College of Engineering. It houses several state-of-the-art imaging systems including a 100% research dedicated GE Signa 7T, GE 3T Premier research scanner, 7T animal scanner, Polarian hyperpolarizer for Xenon MRI and Elekta MRI Linac system. The candidate will enjoy close collaborations with the imaging researchers at IIBI, Iowa Institute of Neuroscience (INI), and Iowa Institute of Artificial Intelligence (IIAI).

A Ph.D. in electrical engineering, biomedical, physics, applied mathematics, or a related field is required for both positions. The candidates should have first-hand experience in MR physics, pulse sequence programming and image reconstruction algorithms. Candidates should be highly motivated and be interested in working in an interdisciplinary environment.

Interested candidates are requested to contact Prof. Mathews Jacob (Mathews-Jacob@uiowa.edu) with a recent CV.