A post-doctoral position is available starting July 1st, 2021, in the Quantitative Body MRI research group at the BioMedical Engineering and Molecular Imaging Institute (BMEII) and the Department of Radiology at the Icahn School of Medicine at Mount Sinai in New York City for a motivated PhD or MD/PhD. The research group is composed of physicists, radiologists and coordinators.

The Role
You will be part of a team led by a radiologist and a biomedical engineer with a focus on kidney MRI. The primary responsibility of this position is to analyze and post-process advanced MRI quantification methods (diffusion-weighted, arterial spin labeling, and relaxometry methods such as T₁, T₂ and T₁rho), with an emphasis on radiomics and texture analysis in kidney imaging. Applicants will have, or be in the final stages of a PhD/ MD PhD in engineering, physics, computer science or related discipline. Background in MRI Physics and image processing, as evidenced by quality publications and conference presentations, is required. Pulse sequence programming experience and interest and/or experience in artificial intelligence, machine learning, or high-throughput statistical analyses combining quantitative imaging, genomics and proteomics are highly desirable. Experience with imaging human subjects, preferably on the Siemens platform, is desirable. Experience in pre-clinical renal imaging is desirable, but not required.

Lab resources
BMEII has access to cutting edge imaging facilities including research dedicated Siemens 7T and 3T Skyra MR systems, Siemens Sequoia Ultrasound system and Bruker 7T and 9.4T preclinical MR systems. Limited research time is also available on clinical Siemens 1.5T Aera, 3T Skyra and 3T PET/MR systems. Computational resources and expertise are also available including high performance servers and collaborations with the Hasso Plattner Institute for Digital Health at Mount Sinai.

Surrounding Area
Mount Sinai hospital is located on Madison Avenue in Manhattan, adjacent to Central Park. Incoming post-doctoral researchers are eligible for subsidized Mount Sinai housing.

Please send a current CV and letter of interest, as well as 3 references to Sara Lewis, MD (sara.lewis@mountsinai.org) and Octavia Bane, PhD (octavia.bane@mountsinai.org).