The Indiana University School of Medicine seeks candidates for Postdoctoral Fellows in Electrical Engineering, Biomechanics, Biomedical Engineering, Physics, Computer Science, or Neuroscience.

Our Lab is developing novel quantitative magnetic resonance imaging (MRI) techniques and analysis methods on the central nervous system (CNS) and musculoskeletal system. These MRI technologies enable high throughout the genetic application of MRI technology to a wide range of mouse models, including Alzheimer’s disease, autism spectrum disorder, and multiple sclerosis. Besides the MRI in CNS, the novel non-invasive imaging biomarkers to detect the early degradation of articular cartilage extended the current knowledge about the cartilage composition and the interaction between bound water and macromolecules in the cartilage matrix.

The Roberts Translational Imaging facility equips the state-of-the-art scanner, Bruker BioSpec 9.4T PET/MRI scanner. The scanner provides an unprecedented opportunity to perform cutting-edge, high-resolution imaging for neuroscience research, musculoskeletal disorders, and renal diseases. Candidates also have opportunities to work with our collaborators in Stark Neurosciences Research Institute, Indiana Center for Musculoskeletal Health, Radiology department, Computer Science department, and Biology department.

**Qualification:**
We are looking for applicants who are interested in pulse sequence development, image reconstruction, and/or imaging data analysis. Programming skills in Matlab, Python, C/C++, or parallelization are desirable. Publication records and skills in imaging data processing with software tools (e.g. FSL, ANTs) may play a significant role in selecting. Major in Medical Physics, Electrical Engineering, Biomedical Engineering, Computer Science, Neuroscience, or related disciplines is required for the applicants.

**How to apply:**
Salary will follow NIH guidelines and be commensurate with experience. We are looking for candidates who are self-motivated and collaborative. If interested, please send a cover letter, CV and contact information for three references to:

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