Postdoctoral Fellow Positions

**Position Description:** The Center for Magnetic Resonance Research (CMRR), University of Illinois at Chicago (UIC) has open positions for two Postdoctoral Fellows to engage in multiple research projects that are funded by the National Institutes of Health with the following research focus:

- **First Position:** Development of novel pulse sequences and advanced image reconstruction algorithms for imaging cancer or neurological disorders.
- **Second Position:** Breast cancer imaging using advanced diffusion MR techniques and exploring their applications in characterizing breast tissue properties.

**Minimum Requirements:**

- PhD in physics, medical physics, biophysics, electrical engineering, biomedical engineering, or a related field within the last 3-4 years
- Essential knowledge of MR physics or applications
- Track record of high-quality publications in major journals in the field
- Demonstrated analytical, verbal, and scientific writing skills
- Experience in computer programming (e.g., MATLAB, Python, and C++)

**Highly Desired Qualifications:**

- Experience in developing methods for MR image acquisition and reconstruction or MR image analysis
- Experience with pulse sequence development on human MRI scanners
- Experience in diffusion imaging, fast imaging, or cancer imaging

**About:** The CMRR serves as a hub for leading and supporting MR research at the UIC as well as the Greater Chicago area. The Center is equipped with a research-dedicated GE MR 750 3T scanner and another MR 750 3T scanner shared with the clinical service. Both scanners are equipped with advanced features, including fMRI, diffusion, perfusion, MRS, heteronuclear imaging, MRE, and a full collection of RF coils and other accessories. An additional 3T MRI scanner dedicated to research is being planned for installation in 2023. Researchers at the CMRR also have access to five clinical MRI scanners operating at 1.5T or 3T and an animal scanner at 9.4T. The UIC has a strong emphasis on MRI research with 25 faculty members working on a broad range of projects spanning from new technologies to clinical applications. The CMRR offers many research opportunities, particularly in diffusion imaging, cancer imaging, neuroimaging, metabolic imaging, and pulse sequence development.

**Compensation:** The UIC offers a competitive salary with an attractive fringe benefits package. The CMRR is committed to helping the postdoctoral fellows to develop a successful career pathway in academia, industry, or government, as shown in our track record.

**To Apply:** Please send a full CV to Dr. X. Joe Zhou (xjzhou@uic.edu) or Dr. Muge Karaman (mkaraman@uic.edu).