



## Postdoctoral Opportunity at Johns Hopkins University

Multiple postdoctoral positions are available in the Department of Radiology at Johns Hopkins University School of Medicine and the F.M. Kirby Research Center for Functional Brain Imaging at Kennedy Krieger Institute, Baltimore, MD, USA. The research goal is focused on the development of novel MRI techniques (e.g. chemical exchange saturation transfer (CEST) or diffusion tensor MRI) and their clinical applications to various neurological diseases, such as brain tumors, stroke, Alzheimer's disease, and TBI. In particular, we are seeking scientists with expertise in developing novel MRI pulse sequences, acquisition approaches and analysis techniques, including compressed sensing, MR fingerprinting (MRF) and deep-learning.

**Requirements and preferred experience:** Applicants must have a Ph.D. in medical imaging, biomedical engineering, electrical engineering, computer science, physics, or a related field. The candidates must have some first-hand experience in MRI physics, pulse sequence programming (on Philips or Siemens) and/or image reconstruction algorithms.

**Benefits:** The positions are grant-funded, full-time with benefits, and are available immediately. Salary will be commensurate with experience. The positions will typically be for two years, renewable for more years, with potential to be promoted to faculty for outstanding researchers.

**Environment:** The positions will be in the Division of MR Research, Department of Radiology, Johns Hopkins University School of Medicine. JHU has a world-renowned Radiology program, ranked #1 in the nation, according to US News and World Report's 2021 Best Research-Oriented Medical School rankings. We have 1.5T, 3T and 7T Philips and Siemens human scanners dedicated for research only. Preclinical imaging facilities include Bruker 4.7T, 9.4T, 11.7T, 17.6T MRI, 7T PET-MRI scanners. The Division of MR Research has more than 100 MR physicists, collaborating closely with neuroscientists, pathologists, and clinicians at Hopkins and around the world. There are ample opportunities for collaboration with world leaders in many fields.

**To apply:** Interested individuals should e-mail their CVs and contact information of three referees to Dr. Peter van Zijl using the e-mail address: [vanzijl@kennedykrieger.org](mailto:vanzijl@kennedykrieger.org), or Dr. Jinyuan Zhou using the e-mail address: [jzhou@mri.jhu.edu](mailto:jzhou@mri.jhu.edu).