Postdoctoral position in neuroimaging development

A postdoctoral position is available in the Radiology Department at Johns Hopkins University School of Medicine and the Kennedy Krieger Institute, conducting research on diffusion MRI and brain microstructural imaging with Drs. Manisha Aggarwal and Peter van Zijl. The research focuses on development of MRI acquisition and analysis techniques (including diffusion, susceptibility) for microstructural brain tissue imaging, with both preclinical and clinical applications. In particular, we are seeking candidates with interest and expertise in MR acquisition (pulse sequence programming) and analysis techniques with specific applications to study changes in neurodegenerative disorders in both animal models and the human brain. The position is NIH-funded and available with an effective start date as soon as possible. Applications will be considered until the position is filled, so interested candidates are encouraged to apply early.

Requirements:
- A Ph.D. degree in medical physics, electrical engineering, biomedical engineering, or related field is required
- The successful candidate will be a motivated researcher with self-initiative and a strong background in MR biophysics and/or preclinical imaging experience. Experience with pulse sequence programming or diffusion MR image analysis is preferred.
- Strong expertise in C/C++ and/or Matlab or similar computing environment is necessary
- Demonstrated track record of scientific publications in the field of MRI
- Excellent written and oral communication skills

Benefits: The position is intended as a full-time appointment in the Radiology Department of the Johns Hopkins University (JHU) School of Medicine. Salary will be commensurate with experience, and full postdoctoral benefits at JHU will be provided. A two-year minimum commitment is required, with possibility of extension up to five years based on progress. The position is NIH-funded and is available starting immediately.

Environment: JHU has a world-renowned Radiology program, ranked #1 in the 2020 US News rankings. Preclinical imaging facilities at JHU and the Kennedy Krieger Institute include 4.7T, 9.4T, two 11.7T, and 17.6T Bruker MRI scanners. More information about research and facilities can be found at http://mri.kennedykrieger.org/preclinical/. We also have 1.5T, 3T and 7T Philips and Siemens human scanners dedicated for research only. The MRI Division 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 candidates should send their CV, a brief statement of research interests, and contact information of two references. Applications should be submitted via e-mail to Dr. Manisha Aggarwal (manisha.aggarwal@jhu.edu) or Dr. Peter van Zijl (vanzijl@kennedykrieger.org), with ‘Neuroimaging postdoc application’ in the subject line.