Two postdoctoral positions in Carle Illinois Center for Advanced Imaging
Urbana-Champaign, Illinois, USA

The University of Illinois Biomedical Imaging Center and Stephens Family Clinical Research Institute at Carle Foundation Hospital are looking to hire two postdoctoral fellows for its newly formed joint Center for Advanced Imaging. Specifically, the positions will be directly connected to the new Siemens 7T Terra system which was installed in early September 2020. The system joins two 3 T Prisma MRI systems at the Biomedical Imaging Center at the University of Illinois along with several 1.5 T MRI systems and a 3 T Siemens Prisma system at Carle Foundation Hospital.

The postdoctoral positions are linked to a recently funded project which aims to create a large normative population database at 7 Tesla. This will involve developing and optimizing state-of-the-art anatomical, functional and spectroscopic sequences, as well as implementing efficient data acquisition and processing strategies. These protocols and processing pipelines will also be incorporated into other research projects in specific patient populations such as those with traumatic brain injury, concussion, epilepsy, and a variety of neurodegenerative diseases.

The two positions will cover a range of technical, neuroscience, and human subject interaction duties. Applicants should identify which of the following foci best describes their qualifications:

(Engineering)
- PhD degree in MR engineering related field such as Biomedical Engineering or Electrical Engineering or other related technical field
- Experience in MR pulse sequence and/or protocol development and image analysis
- Experience on a 3 Tesla or 7 Tesla MRI, preferred prior experience with Siemens systems.
- Experience in running human studies

(Neuroscience)
- PhD degree in Neuroscience, Psychology, or Biomedical Engineering
- Experience with resting state fMRI
- At least 2 years experience in an MRI lab running human studies
- Experience with data analysis package such as FSL, SPM, or AFNI.

Application process:
To apply, please submit a CV and letter outlining relevant experience, along with a list of three references, to:
Director of the Biomedical Imaging Center, Dr. Tracey Wszalek, traceyws@illinois.edu

The anticipated end date of the search is November 30, 2020. A search committee will promptly review all application materials upon closing the application process.