Postdoctoral Research Associate in Imaging Brain Biomechanics
Department of Biomedical Engineering, University of Delaware

A postdoctoral research associate position is available immediately in the Department of Biomedical Engineering at the University of Delaware under the supervision of Professor Curtis Johnson. The successful candidate will work on projects related to measuring brain biomechanics for applications in traumatic brain injury (TBI) supported by grants from the National Institutes of Health and Office of Naval Research.

We seek a highly motivated individual interested in measuring how the human brain responds to impact to model TBI. This project will use magnetic resonance elastography (MRE) to measure brain tissue stiffness and deformation due to applied motion to inform computer models of TBI in humans. This research is part of ongoing collaborations with groups at Washington University in St. Louis, Johns Hopkins University, and Henry M. Jackson Foundation.

The University of Delaware provides ample opportunities for collaborative research and access to excellent research facilities, including through the Center for Biomedical and Brain Imaging, the Delaware Rehabilitation Institute, and partnerships with Nemours/A.I. duPont Hospital for Children and Christiana Care Health System. The CBBI offers excellent access to a 3T Siemens Prisma MRI scanner and a 9.4T Bruker MRI scanner, along with additional in vivo imaging systems for humans and animals. Opportunities exist for the successful candidate to pursue his/her own research utilizing these resources as part of the larger study objectives.

The candidate must have a Ph.D. or an equivalent degree in biomedical engineering, mechanical engineering, electrical engineering, or related fields, with strong background in neuroimaging data acquisition and analysis. Experience in elastography and pulse sequence programming are a plus, though not required. The candidate should have excellent written and oral communication skills and will be expected to participate in both independent and collaborative projects. Salary is commensurate with experience.

Contact Curtis Johnson (cj@udel.edu) with any questions, and apply online at https://careers.udel.edu/cw/en-us/job/498978.