UNIVERSITY OF DELAWARE
BIOMEDICAL ENGINEERING

MECHANICAL
NEUROIMAGING
LABORATORY

Postdoctoral Research Associate in Magnetic Resonance Elastography
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 brain magnetic resonance elastography (MRE) supported by grants from the National Institutes of Health and the Delaware Community Foundation.

We seek a highly motivated individual interested in the development of novel MRE imaging methods for fast, high-resolution imaging of brain mechanical properties for application to the aging brain and mild cognitive impairment. Brain MRE methods will be used in ongoing longitudinal studies examining risk factors for dementia through advanced brain and blood biomarkers, including the Delaware Longitudinal Study of Alzheimer's Prevention. Ongoing collaborations using MRE with research groups worldwide opportunities to disseminate new technology and explore new clinical research questions.

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 (CBBI) and the Delaware Center for Cognitive Aging Research (DECCAR. CBBI offers excellent access to a 3T Siemens Prisma MRI scanner and a 9.4T Bruker MRI scanner, with a new 3T Siemens Cima.X MRI scanner to be installed in 2026. Opportunities exist for the successful candidate to pursue their 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, electrical engineering, or related fields, with strong background in MR physics and computer programming. Experience in pulse sequence programming or image reconstruction is preferred. 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 (clj@udel.edu) with any questions, and apply online at https://careers.udel.edu (job number 502798) or at https://tinyurl.com/nhu6veuj.