Postdoctoral Research Associate in Brain 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 magnetic resonance elastography (MRE) of the brain supported by two active NIH grants. Specifically, we seek a highly motivated individual interested in the development of novel MRE image acquisition and reconstruction techniques for fast, high-resolution, and accurate imaging of brain mechanical properties. Novel techniques will be used in ongoing clinical and basic science research projects using MRE to measure brain health through mechanics. Ongoing collaborations with several groups, including at Washington University in St. Louis and Dartmouth College, provide opportunities to disseminate new technology and impact clinical research.

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, electrical engineering, or related fields, with strong background in MR physics and computer programming. Experience in pulse sequence programming is required; experience in the Siemens IDEA environment 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.

The position is for two years, includes health and retirement benefits, with renewal possibility. Review of applications will begin immediately, and the position will remained open until filled.

Applicants should submit a cover letter describing research experience and career goals, CV with list of publications, and contact information for three references to Curtis Johnson (clj@udel.edu).