MAYO CLINIC

Research Fellow in Magnetic Resonance Elastography
Mayo Clinic, Rochester, MN, USA

Position Description
A research fellow position in magnetic resonance elastography (MRE) is available in the Department of Radiology at Mayo Clinic Rochester, Minnesota. The research fellow will work on an NIH-funded project to develop new quantitative imaging biomarkers to assess the traumatic brain injury (TBI) in human subjects using MRE. The primary responsibility of this position includes conducting research in the technical development, validation, and clinical translation of MRE techniques, analyzing and post-processing data. MRI techniques of interest also include diffusion and strategies for efficient, high-resolution imaging. The research fellow will also have opportunities to participate in related interdisciplinary collaborative projects to investigate tumor stiffness and adhesion in a neurosurgical application.

Resources and Environment
Mayo Clinic provides an ideal research environment, where multidisciplinary teams reflecting Mayo's broad expertise and unique approach to bench science and direct patient care develop an infrastructure capable of conducting meaningful patient-oriented research. The research fellow will join an interdisciplinary team of scientists and clinicians in radiology, neurology, and engineering, and will have opportunities for career development. This individual will have access to state-of-the-art imaging equipment, including a novel high performance head-only compact 3.0T MRI scanner.

Required Qualifications
Ph.D., or equivalent degree in engineering, physics, computer science, mathematics, or a related field
Experience with MRI data collection and analysis
Programming experience in Matlab, and/or C/C++, and/or related languages

Preferred Qualifications in one or some of these areas
Strong oral and written communication skills
Experience with MRI pulse sequence programming

Application Instructions
If interested, please send (1) a current CV and (2) contact information for three references to Dr. Ziying Yin at Yin.Ziying@mayo.edu

Please direct any questions regarding the position to:

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