Postdoctoral Fellow
MRIIT
Illinois Institute of Technology, Chicago, IL

The MRI Lab at the Illinois Institute of Technology (MRIIT, ‘emrit’) is seeking well-trained, highly motivated individuals for two (2) full-time Postdoctoral Fellow positions. One successful applicant will participate in the development of a much-needed comprehensive multi-modal human brain atlas of the older adult brain, and a second successful applicant will work on machine learning in neuroimaging studies of aging. MRIIT has helped develop the largest longitudinal in-vivo and ex-vivo MRI + clinical + pathology database in community cohorts of older adults. Successful applicants will have the ability to publish high impact research based on this and other unique resources. Both positions are funded through NIH grants for at least 3 years.

Qualifications
Candidates are expected to meet the following essential criteria:
- Ph.D. in Biomedical Engineering, Electrical Engineering, Medical Physics, Computer Science, or related discipline
- Research experience in image analysis
- Excellent communication and writing skills in English
- Strong programming skills
- Highly motivated, enthusiastic and detail-oriented
- Ability to work independently

Expertise in the following is a plus:
- Functional and structural connectivity
- Development of brain atlases
- Deep learning

Environment
MRIIT is among the leaders in human brain atlas development. Over the past decade, MRIIT has developed the IIT Human Brain Atlas of the young adult brain (www.nitrc.org/projects/iit) which is rapidly gaining popularity as the most comprehensive, high-quality, multi-channel atlas of the young adult brain, containing not only anatomical templates, but also state-of-the-art diffusion tensor and high angular resolution diffusion imaging templates, probabilistic gray matter labels, and probabilistic connectivity-based white matter labels. In addition, MRIIT is in close collaboration with the Rush Alzheimer’s Disease Center (RADC) at Rush University Medical Center, a world-class Alzheimer’s center. The RADC supports MRIIT activities by sharing their expertise and resources, including detailed clinical, imaging, genetic, and pathology data.

Application Procedure
To apply, email your CV and a cover letter summarizing your experience and interest in this position, along with the contact information of three references to MRIIT director:

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