Neuroimaging Research Scientist (Staff)

As part of a major expansion in multimodal in-vivo and ex-vivo brain MRI research in aging and dementia, the Rush Alzheimer’s Disease Center (RADC) at Rush University is seeking highly motivated candidates for three Neuroimaging Research Scientist (staff) positions. The successful applicants will develop, implement and apply advanced image analysis techniques on in-vivo and ex-vivo multimodal brain MRI data from large community cohorts of older adults with a plethora of available risk factor, clinical, omics, and post-mortem data. Our group publishes high impact research based on the most clinically detailed and extensive collection of resources in aging and dementia in the world. Examples of the rich data can be seen in many papers. You will work in a multidisciplinary, team-based environment including 30 faculty members and a staff of more than 100 - biomedical engineers, MR physicists, neurologists, neuropsychologists, neuropathologists, biostatisticians, epidemiologists, computational neuroscientists.


Job Benefits:
- High-impact research, taking advantage of unique resources
- Access to the largest longitudinal in-vivo and ex-vivo MRI + clinical + pathology database in community cohorts of older adults
- Cloud computing
- Scientific focus in a flat organizational structure, with stable funding
- Career development alongside highly successful scientists
- Competitive compensation and benefits

Job Requirements:
- Ph.D. degree in Biomedical Engineering, Electrical Engineering, Medical Physics, Computer Science or related discipline
- Excellent skills and experience in one or more of the following areas are highly desirable: a) advanced analysis of functional connectivity MRI signals, b) network-based functional and structural brain analysis, c) machine learning, d) MRI of brain microstructure using diffusion imaging and/or MR relaxometry.
- Experience in quantitative susceptibility mapping, susceptibility-weighted imaging, MR perfusion, longitudinal analysis of brain MRI data, and integration of functional and structural information is a plus.
- Strong programming skills.
- Excellent communication and analytical skills.
- Ability to prioritize and manage own work.
- A clear interest in collaborative, multidisciplinary teamwork.
- Highly-motivated, enthusiastic and detail-oriented.
- Ability to work independently.
The Rush Alzheimer's Disease Center (RADC) is a leading experimental and epidemiological center for the study of Alzheimer's disease. Over the past decade, the RADC has carried out numerous community-based cohort studies to better understand Alzheimer’s disease and aging, generating many in-vivo and ex-vivo MRI data sets from older adults. Now we invite you to participate in our efforts to assess brain mechanisms that support cognitive health in old age or lead to cognitive decline, develop MRI biomarkers of age-related neuropathology, and in many other exciting projects.

Rush University Medical Center is an Equal Opportunity Employer that welcomes and encourages all applicants to apply regardless of age, race, sex, religion, color, national origin, disability, veteran status, sexual orientation, gender identity and/or expression, marital or parental status, ancestry, citizenship status, pregnancy or other reason prohibited by law.