JOB SUMMARY:

The University of Maryland, Baltimore School of Medicine is seeking a Post-Doctoral Fellow to work in the Department of Neurology. The Department of Neurology provides evaluation, treatment, and care for patients suffering from a wide range of neurological disorders including stroke, epilepsy, multiple sclerosis, Parkinson’s disease, amyotrophic lateral sclerosis (ALS), and migraine. We provide care through our inpatient and consultative services, our designated Comprehensive Stroke Center, our Level 4 Epilepsy Center, our 22-bed Neuro-Critical Care Unit, and our busy outpatient practice. The Department also provides state-of-the-art rehabilitation services. A number of departmental faculty received grant funding from the National Institutes of Health and the Veteran’s Administration to study the role of genetics in stroke, epilepsy, and Parkinson’s disease, new brain imaging modalities in multiple sclerosis, biomarkers in multiple sclerosis, and neurodevelopmental disorders such as autism and intellectual disability. Many faculty are lead investigators in clinical trials to identify new therapeutic approaches for a broad range of neurological disorders.

Postdoctoral Position in MRI and optical neuroimaging, image processing, and data analysis

The Department of Neurology, Multiple Sclerosis Division at the University of Maryland School of Medicine is recruiting for a highly qualified postdoctoral researcher to perform research in MRI neuroimaging, image processing, and data analysis. The successful candidate will be expected to utilize and/or develop methodologies, algorithms, and software for quantitative image analysis. These will be applied to clinical research projects involving patients with multiple sclerosis, including, but not limited to ultra-high-field (7 Tesla) MRI, high-field (3 Tesla) MRI, quantitative MRI techniques and optical imaging techniques such as optical coherence tomography (OCT).

We are looking for a highly motivated, and career-oriented research individual, with a PhD in biomedical or electrical engineering, computer science, or a related field with a focus on medical imaging analysis.

Experience in medical imaging is required.

Proficiency in computer programming languages (such as Python, Matlab, C, Java, etc.) and experience with software and/or algorithm development and implementation is required.

Strong knowledge of MR physics and related signal processing is preferred.

Experience in neuroimaging is preferred.

Experience with existing neuroimaging analysis software packages (i.e. FSL, Freesurfer, SPM, MIPAV, JIST, CBS Tools, TOADS-CRUISE, etc.) is preferred.
Strong mathematical and analytic skills are preferred. Excellent oral and written communication skills and the ability to work independently and in collaboration are necessary.

UMB is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to sex, gender identity, sexual orientation, race, color, religion, national origin, disability, protected Veteran status, age, or any other characteristic protected by law or policy.

UMB was ranked one of America's Best Large Employers by Forbes Magazine (Feb 2021).

Individuals who are interested should submit a detailed CV, a brief statement including a research plan, interests and skills, and the names of three references, and a short description of their doctoral training and future research goals to:

Dr. Daniel Harrison
Associate Professor
Department of Neurology, MS Division
110 S. Paca Street, 3rd Floor, 3N-137
Baltimore, MD 21201
Or email it to dharrison@som.umaryland.edu

Please also apply on the University of Maryland website https://www.umaryland.edu/jobs/ requisition number: 210000YE