JOB SUMMARY:

The University of Maryland, Baltimore School of Medicine is seeking a Research Analyst 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.

Research Analyst position in MRI and optical neuroimaging data analysis

The Department of Neurology, Multiple Sclerosis Division at the University of Maryland School of Medicine is recruiting for a research analyst to assist in projects related to MRI neuroimaging, image processing and manipulation, and data analysis. The successful candidate will be expected to utilize software for qualitative and quantitative image analysis. This may include manual manipulation of medical images and identification and demarcation of structures and abnormalities. 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).

ESSENTIAL FUNCTIONS:

Perform manual, semi-automated, and automated medical image analyses utilizing state of the art medical image analysis software.

Coordinate with other members of the research team to accomplish projects related to the above.

Utilize the most effective method of data collection and coding. Check validity and accuracy of data ensuring compliance with quality control requirements.

Compile and analyze data for research programs. Coordinate and maintains data reports and database files on progress of programs, studies, and/or projects. May receive, inventory, enter, and organize collected data.

Prepare and present reports for presentation or submittal to sponsoring agent.
Perform searches to generate standard and customized reports using statistical applications. Summarize results of searches.

Assist in the preparation of manuscripts, presentations, and proposals by providing and presenting statistical information as tables, charts, or graphs.

**MINIMUM QUALIFICATIONS:**

Bachelor’s degree in Health Sciences, Statistics, or a field of study related to the research. Higher level degrees in fields of study related to the research will be considered.

Experience in medical imaging or experience or exposure to neuroanatomy will be valued. Other unique combinations of education and experience may be considered.

**KNOWLEDGE, SKILLS, AND ABILITIES:**

Ability to understand and utilize scientific/medical terminology and research theory in both oral and written communications.

Ability to use measurable and verifiable information for making decisions or judgments.

Skill in statistical interpretation and data analysis using statistical software as well as spreadsheet and database software applications.

Excellent organizational and project management skills.

Ability to learn and retain knowledge of neuroanatomy.

Ability to learn and retain knowledge of medical image analysis techniques.

Ability to maintain confidentiality of subjects and information obtained.

Ability to network with, and provide information to key groups and individuals.

Ability to work as part of a team.

Ability to use a consultative approach to resolve issues in area of responsibility.

Excellent communication skills, both oral and written.

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 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: 210000Y7