Job Title: Postdoctoral Researcher - Center for Brain Recovery

Location: 635 Commonwealth Avenue, Boston University, Boston, MA 02215  
Position Type: Full-time  
Duration: 2+ years  
Application Deadline: Nov 1st, 2023  
Organization: Center for Brain Recovery, Boston University

About Us: The Center for Brain Recovery (CBR) at Boston University is a cutting-edge research center focused on understanding, treating, and preventing neurological disorders such as stroke, brain injury, Alzheimer's disease, Parkinson's disease, and more. Our interdisciplinary team of clinicians, neuroscientists, engineers, and data scientists is dedicated to unraveling the complexities of the brain, with a goal to improve brain function and enhance the quality of life for those affected by neurological conditions.

Position Overview: The Center for Brain Recovery is seeking a highly motivated and innovative Postdoctoral Researcher to join our dynamic team. The successful candidate will collaborate with our interdisciplinary group of researchers to advance our mission of addressing brain disorders through innovative research projects. This position offers a unique opportunity to work on cutting-edge research in neuroimaging, neuroscience, data science, and clinical trials, contributing to our understanding of brain function and neurological disease.

Key Responsibilities:

Neuroimaging and Neuroscience Research:

- Collaborate on projects aimed at obtaining a dynamic picture of the functioning brain and identifying novel signatures of brain disease. 
- Use innovative research techniques to continuously monitor brain function in real-world settings.

Neurobiomarker Development:

- Conduct research to identify neural and behavioral biomarkers of brain health, both during recovery and in cases of neurological decline. 
- Develop advanced computational models to extract clinically significant information from neuroimaging data for diagnosis and treatment of neurological disorders.

Data Science and AI Research:

- Utilize data science and AI methods to predict human cognitive function and individual patient recoveries after rehabilitation and in cases of neurological decline. 
- Analyze large behavioral datasets to enable early detection of neurodegenerative diseases and create patient profiles of recovery trajectories.

Clinical Trials:
- Participate in clinical trials related to rehabilitation for various neurological disorders, including stroke, traumatic brain injury (TBI), and primary progressive aphasia (PPA).
- Assist in conducting randomized control trials, evaluating behavioral, functional, and brain plasticity outcomes.

**Qualifications:**

- Ph.D. in neuroscience, neuroimaging, data science, psychology, neuropsychology, speech language pathology, or a related field.
- Strong research background and experience in relevant research methodologies.
- Proficiency in data analysis software and programming languages (e.g., Python, MATLAB, R).
- Excellent written and verbal communication skills.
- Ability to work collaboratively in an interdisciplinary team.
- Prior experience in clinical research or clinical trial involvement is a plus.
- A commitment to ethical research practices and patient-centered care.

**Benefits:**

- Competitive salary commensurate with experience.
- Access to state-of-the-art research facilities and resources.
- Opportunity for professional development and mentorship.
- Collaborative and inclusive work environment.

**Health and retirement benefits.**

**Application Instructions: Interested candidates should submit the following documents:**

- A cover letter outlining your research interests and relevant experience.
- A current CV detailing your academic and research achievements.

Contact information for at least two professional references.
Please submit your application to brainrec@bu.edu or kirans@bu.edu.
Boston University is an equal opportunity employer. We encourage applications from individuals of all backgrounds and experiences.

Join our team at the Center for Brain Recovery and contribute to groundbreaking research aimed at improving the lives of those affected by neurological disorders. Apply today!