Postdoctoral Position for Neuroimaging Research

Research Lab Description:
A Postdoctoral Research Fellow position is available in the Mallinckrodt Institute of Radiology (MIR) at the Washington University in St. Louis, School of Medicine. MIR is a globally recognized center of imaging excellence and the academic radiology department. For decades, MIR has been at the forefront of groundbreaking research in the field of radiological sciences. Our investigators are known for the advancement of imaging technology as well as innovative methods for the interpretation of radiological images. From being the birthplace of PET to inventing cancer goggles, MIR has been home to some of the most significant and historic breakthroughs in radiology research. We invite applications for a Postdoctoral Research Fellow with a passion for unraveling the mysteries of Alzheimer’s disease and other neurodegenerative disorders. Our lab is at the forefront of developing innovative imaging techniques to enhance our understanding of the pathophysiology of these conditions. We are dedicated to translating our scientific discoveries into clinical applications that can revolutionize early detection, intervention, and the development of effective treatments.

Research Directions:
- **Advanced Neuroimaging:** Engage in the development and refinement of innovative neuroimaging techniques, including MRI and PET, to study brain pathology. The focus will be on understanding the neurobiological mechanisms of diseases and developing noninvasive imaging biomarkers for clinical applications.
- **Data-Driven Neurodegeneration Research:** Utilize extensive datasets from major studies in the field to analyze biomarker measures, neuroimaging data, and cognitive assessments. The goal is to comprehensively understand disease progression and the factors influencing it.
- **Electrophysiology study:** Investigate the electrophysiological aspects of neurodegenerative diseases using cutting-edge imaging technology. Work to elucidate the electrical activity patterns that underlie disease mechanisms and progression.

Job Description:
We are seeking a highly motivated and skilled Postdoctoral Researcher with expertise in Magnetic Resonance Imaging (MRI) to join our dynamic research team. As a Postdoc in our organization, you will play a crucial role in advancing our research projects in the neuroimaging.

Key Responsibilities:
- Conduct cutting-edge MRI, PET, and Electrophysiology, including data acquisition, analysis, and interpretation.
- Collaborate with multidisciplinary teams to design and implement imaging experiments.
- Develop innovative neuroimaging methodologies and techniques.
- Collect and process neuroimaging data from research subjects or patient populations.
• Publish research findings in reputable scientific journals.
• Present research at conferences and contribute to grant applications.
• Mentor and train graduate students and research assistants in MRI techniques.
• Contribute to the overall research goals and objectives of the team.

Qualifications:
• A Ph.D. in Neuroscience, Biomedical Engineering, or a related field. Strong expertise in MRI techniques and data analysis.
• Strong background in neuroimaging techniques, preferably with experience in MRI, PET or Electrophysiology.
• Excellent problem-solving skills and the ability to work independently and collaboratively.
• Proficient in data analysis, statistical methods, and programming languages such as Python or MATLAB.
• Excellent written and verbal communication skills, with a proven track record of publishing research findings. Prior experience with human or preclinical MRI research is preferred.
• A collaborative spirit, keen to work in a multidisciplinary team, and contribute to a dynamic research environment.

What We Offer:
• A collaborative atmosphere in a cutting-edge research environment.
• Access to state-of-the-art imaging facilities and rich datasets.
• Opportunities for professional development and conference attendance.
• Competitive salary and benefits package.

Application Process:
• Please submit your application including a cover letter detailing your research interests and experience, a CV, a list of publications, and contact information for three references.
• Contact information for at least two professional references.

We are committed to building a diverse and inclusive research team and encourage applications from candidates of all backgrounds.

For inquiries or more information, please contact:

Qing Wang
Assistant Professor of Radiology
Neuroimaging Laboratory (NIL) | Mallinckrodt Institute of Radiology
Washington University in St. Louis, School of Medicine
Email: wangqing@wustl.edu