Post-Doctoral Associate Available in Imaging:

We are seeking a full-time postdoctoral associate to work with Dr. Ali Khan to develop imaging software, pipelines, and data management systems for the Translational Initiative to De-risk NeuroTherapeutics (TRIDENT) platform at the Robarts Research Institute, Schulich School of Medicine & Dentistry, at The University of Western Ontario in London, ON.

Robarts is Western’s biomedical research institute focused on the translation of new discoveries and technology to benefit clinical populations. Robarts is affiliated with the Schulich School of Medicine and Dentistry where scientists are engaged in research activities along the continuum of basic discovery science to validation in animal models and clinical translation with thematic strength in neuroscience, cardiovascular disease, and imaging. We believe in striving for scientific excellence and creating a research culture that provides an interface between basic and clinical scientists to solve our greatest health challenges. A collaborative team at Western University, the University of Toronto, the Centre for Addiction and Mental Health and McGill University (Montreal Neurological Institute and Douglas Mental Health University Institute), have developed a novel platform that will accelerate preclinical evaluation of therapeutics for neurodegenerative diseases. This platform is known as the TRanslational Initiative to De-risk NeuroTherapeutics (TRIDENT) and has been funded by a six-year $24M New Frontiers in Research Fund Transformation award. To achieve this goal, TRIDENT integrates the expertise of diverse Canadian world-leading experts across cellular and animal models of neurodegeneration, clinical neurology, cognition, imaging, open science, and science policy, epistemology, knowledge use and translation, intellectual property, ethics, law, philosophy, and sex and gender-based analysis methodology.

The postdoctoral associate will aid in our mission to establish imaging as translational preclinical biomarkers for drug discovery. The successful candidate will work closely with Dr. Ali Khan (Khan Computational Imaging Lab) and other TRIDENT lead investigators on comprehensive management, planning, and execution of TRIDENT imaging-related projects. They will build workflows for data curation and standardization for light sheet microscopy images to implement recognized data standards (e.g., BIDS microscopy), adapt and refine workflows for imaging-microscopy registration for marmoset MRI and light sheet microscopy, and build linkages between workflow management systems (e.g. Snakemake, SnakeBIDS) and the TRIDENT data management portal. The standardization of these procedures will enable code sharing across species, modalities, teams, and institutions. The postdoctoral associate will also collaborate with staff and trainees at TRIDENT sites. They will also have professional development opportunities and access to a competitive benefits package. Contract is for two-years with possibility of renewal, and salary will be commensurate with experience.

Robarts is one of the premier research institutes in Canada with a vibrant research community and many opportunities for collaborations. The University of Western Ontario (www.uwo.ca) is a major educational and research center in Ontario with over 25,000 undergraduate and 5,000 graduate students. Cognitive neuroscience in health and disease is a major research focus at Western. London, also known as the Forest City, is an affordable and lively community close to the Great Lakes and two hours from Toronto. The city offers many options for outdoor and cultural activities.

Robarts Research Institute
1151 Richmond St. London, ON N6A 5B7
www.robarts.ca
Qualified applicants should have a PhD degree in Computer Science, Engineering, Neuroscience, or related discipline with demonstrated expertise in developing image processing pipelines. Candidates with a strong background in neuroimaging and/or computational neuroscience are preferred. The work is highly interdisciplinary and collaborative. The successful applicant will work closely with members of the TRIDENT initiative, including Dr. Mallar Chakravarty's group at McGill University.

Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups/visible minorities, Aboriginal persons, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression.

Please send a statement of interest, Curriculum Vitae, and the names and contact information of at least two references to:

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