The NeuroImaging and Surgical Technologies Laboratory (NIST) lab of the McConnell Brain Imaging Centre (BIC) at the MNI (McGill University) is looking to hire an Academic Associate. We are seeking to hire a professional medical imaging specialist to work in an outstanding scientific environment, at the crossroads between neuroscience, imaging physics, computational modeling, image processing, cellular and molecular biology, and medical imaging. The MNI’s McConnell Brain Imaging Centre is well equipped with neuro imaging systems including human and animal MRI at 3T and 7T, real-time magnetoencephalography, high density simultaneous EEG-fMRI, small bore ultra-high field MRI (7T), small-animal positron emission tomography (PET), and high resolution human PET as well as an on-site, research-dedicated cyclotron and radiochemistry unit to synthesize a large variety of radiopharmaceuticals.

As a medical imaging specialist, the incumbent will work with the researchers who use the different image acquisition systems of the BIC, and help them in the development, implementation and the successful completion of their neuro imaging studies. The incumbent will develop image processing algorithms for analysis of medical images with applications in neuropsychology, neurology and neurosurgery used by hundreds of researchers, extending from within the NIST lab and the BIC to international collaborators. This will include the calibration, quality control, setup and basic troubleshooting of the different image processing software pipelines for the different imaging devices. Another important field of expertise to be covered is in quantitative analysis of structural MR data. The candidate will work in close collaboration with the BIC’s staff, supervising and advising the NIST lab’s software team, and graduate and summer trainees, if required. The applicant will interface between scientists, graduate students, research fellows, and clinicians to develop new methods of medical image analysis and to support the imaging research of members of the NIST lab and their collaborators (80% time) and support and maintain image processing tools and the MINC library used within the BIC (20% time). He/she will work with collaborative teams on the multidisciplinary aspects of the research projects and will further analyze the data, write drafts of manuscripts, and contribute to grant writing.

The position requires a strong background in project management, experience working with multiple collaborators at the same time, and assisting trainees. In addition to the research duties, he/she will also be required to help train new students and other personnel if the need arises, perform other related duties. Knowledge of neuroscience research is required. Knowledge and understanding of the research environment locally, nationally, and internationally are good assets.

This position is a contract position for one (1) year, with possibility of renewal. The salary will commensurate with experience.

Education/Experience
Minimum qualifications: PhD degree in computer science, applied mathematics, physics or a life science-related field (neuroscience, biology, microbiology, etc.) with ten (10) years’ experience in a research lab.

Application Process
Letters of application should be accompanied by a curriculum vitae and sent by email to louis.collins@mcgill.ca with subject “Academic Associate” by April 27, 2020.

We thank all applicants for their interest, however, only applicants selected for an interview will be contacted.

McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities, and others who may contribute to further diversification.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.