Post-Doctoral Fellowships in Magnetic Resonance Neuroimaging Technology

The Physical Sciences Platform, within Sunnybrook Research Institute in Toronto, Canada (sunnybrook.ca/research) is now accepting applications for post-doctoral fellowships in the Graham Neuroimaging Lab (GNL; Principal Investigator: Dr. Simon J. Graham, sgraham@sri.utoronto.ca; grahamlab.ca). The successful applicant(s) will be working in a collaborative, multidisciplinary environment involving the focus of the GNL: development and application of magnetic resonance imaging (MRI) technology to provide information on brain anatomy and physiological function applied to diverse patient populations, including individuals with stroke, dementia, traumatic brain injury, and brain tumours. Research will be conducted in one or more areas of MRI physics, biomedical engineering, and neuroimaging research in collaboration with other clinicians and scientists in Sunnybrook Health Sciences Centre, and in other hospitals in Toronto. Imaging studies at Sunnybrook will be performed on research-dedicated whole-body Siemens 3.0 Tesla MRI systems (Magnetom Prisma, Biograph mMR) and a recently purchased 7.0 Tesla system (Magnetom Terra.X, to be installed in 2024). The laboratory is part of the Centre for Research in Image-Guided Therapeutics, which consists of over 10 000 m² of laboratory space and houses the activities of 12 imaging scientists with substantial research MRI programs. Major research foci within the laboratory include:

- suppressing motion artifacts in MRI of the brain, using position tracking and real-time adaptive imaging;
- parallel radiofrequency transmission technology;
- functional MRI (fMRI) of brain activity for assessing fitness to drive;
- neuroimaging studies of post-COVID19 condition, mild traumatic brain injury, and cognitive impairment;
- development of tools for improved cognitive assessment incorporating touch-sensitive tablet technology, eye-tracking, electroencephalography and fMRI.

The successful applicant(s) will have a Ph.D. that is applicable to one or more of the fields of research studied in the Graham neuroimaging lab. Ability to work within a team environment is essential. These are 2-year positions with opportunities for extension. Applicants should provide their CV; a statement of research experience, interests, and career goals; several representative publications; and the names of 3 references. Applications will be considered as received. Interested individuals should email a cover letter and resume to:

GNL Recruiting
physscirecruitment@sri.utoronto.ca

This advertisement will remain open until positions are filled.

Please be advised that in order to be eligible for employment at Sunnybrook, all new hires must have received the full series of a COVID-19 vaccine or combination of COVID-19 vaccines approved by Health Canada (e.g., two doses of a two-dose vaccine series, or one dose of a single-dose vaccine series); AND have received the final dose of the COVID-19 vaccine at least 14 days ago. Medical exemptions or any other kind of requested exemption based upon the Hospital’s obligations pursuant to the Ontario Human Rights Code will be considered on a case-by-case basis.
In accordance with Canadian Employment and Immigration guidelines, applicants must be eligible to work in Canada. Sunnybrook Research Institute is committed to providing accessible employment practices that are in compliance with the Accessibility for Ontarians with Disabilities Act (AODA). If you require accommodation for disability during any stage of the recruitment process, please indicate this in your cover letter.

Sunnybrook Research Institute is strongly committed to inclusion and diversity within its community and welcomes all applicants including but not limited to: visible minorities, all religions and ethnicities, persons with disabilities, LGBTQ persons, and all others who may contribute to the further diversification of ideas.