Sunnybrook Research Institute is seeking a post-doctoral fellow to develop diffusion and CEST MRI methods for clinical use. This post is linked with a Terry Fox Program Project Grant exploring MRI and Ultrasound methods for breast and brain cancer and will be carried out under the guidance of Scientists in Physical Sciences, Drs. Greg Stanisz and Colleen Bailey.

Expertise is sought in MRI acquisition and data analysis, with experience in CEST and/or diffusion MRI preferred. The post-holder will develop diffusion microstructure techniques for clinical use, optimize clinical MRI protocols for locally-advanced breast cancer and brain metastases, and analyze diffusion and CEST data for differences between responding and non-responding patients following chemotherapy and radiation treatment. Good communication skills and a willingness to collaborate with clinician-scientists for patient recruitment are necessary. Knowledge of data fitting, particularly in Matlab, is an asset.

Sunnybrook Research Institute (SRI) is located in Toronto, Canada and is fully affiliated with the University of Toronto. Sunnybrook’s Odette Cancer Centre is one of North America’s largest cancer centres, caring for over 10,000 new patients every year. SRI is equipped with several 1.5 T and 3 T clinical scanners for research use, in addition to 7 T small-bore magnets. It is a leader in MR-HIFU and the site of Canada’s first fused MR-Linac machine.

**ESSENTIAL QUALIFICATIONS:**

- PhD in MRI physics
- experience in MRI data acquisition and image reconstruction methods
- A demonstrated publication record
- Well-developed interpersonal skills: ability to listen and communicate, understanding of a team approach to research.
- Ability to set priorities successfully and coordinate workflow around competing deadlines

**In addition, the individual is expected to:**

Work within the larger context of Sunnybrook Health Sciences Centre (SHSC) and observe Hospital and department rules and regulations, policies, procedures, practices, safety procedures and current legislation, in particular the Human Rights Code regarding discrimination and harassment.
Ensure the confidentiality of patient, employee, graduate student and Hospital information at all times.

Work cooperatively and constructively with the other members of SHSC staff. Perform the above functions in a manner, which reflects the Hospital philosophy and mission of service, while promoting and maintaining good public relations with patients, visitors and Hospital staff.

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.

The position is for 1-2 years and the expected start date is October 2018.

Qualified applicants are invited to submit their resume, cover letter and contact information of three references, with subject line “2018 MRI post-doc application” to:

Colleen Bailey
collen.bailey@sunnybrook.ca
Subject: 2018 MRI post-doc application

We thank all applicants. However, only those candidates selected for interview will be contacted.