

Scientist, Physical Sciences Platform
Canada Research Chair Tier 2 - Biosensors
Sunnybrook Research Institute
Toronto, Ontario, Canada



December 01, 2020

Scientist in Physical Sciences and Canada Research Chair – Tier 2 in Contrast Agents and Biosensors for Medical Imaging and Image-Guided Therapy (one position)

The [Sunnybrook Research Institute](#) (SRI) is seeking candidates for a Scientist position in the Physical Sciences in contrast agents and biosensors for medical imaging and image-guided therapy. Applicants must hold a Ph.D. in a relevant field (i.e. biophysics, bioengineering) and be eligible for appointment as a full-time Scientist at SRI and as an Associate Professor at the University of Toronto. The candidate will become a member of the [Physical Sciences Platform of SRI](#) and may be nominated for a Tier 2 [Canada Research Chair](#).

We are seeking a researcher focused on the development of imaging contrast agents or other biosensor approaches that are relevant to the understanding, diagnosis, or treatment of disease processes. The research focus can involve imaging modalities such as MRI, PET, optical, and ultrasound, and it may relate to multimodal imaging. The approaches employed should provide information related to the visualization and quantification of molecular and cellular events or aspects of the tissue microenvironment.

The successful applicant will develop an internationally competitive research program and participate in graduate training through an academic appointment in the appropriate department at the University of Toronto. The applicant will be expected to foster local, national, and international collaborations, work with other SRI Scientists, build complementary translational research capacity, and engage with Sunnybrook clinicians to enable short- and/or long-term clinical translation of their research, ultimately contributing to [Sunnybrook's strategic direction in Personalized and Precise Treatments](#), with a vision of inventing the future of healthcare. The applicant's research program is thus expected to align well with one or more of the [nine clinical programs](#).

About Sunnybrook Research Institute: SRI is an independent organization wholly owned by Sunnybrook Health Sciences Centre, one of Canada's leading academic health sciences centres. SRI is the research enterprise of the hospital corporation and is fully affiliated with the University of Toronto. SRI has three research platforms: Biological Sciences, Evaluative Clinical Sciences and Physical Sciences, each of which functions similarly to a university department under the leadership of a cognate director. The institute supports \$100 million of annual research activities within approximately 250,000 square feet of state-of-the-art research space located at the [Bayview campus of Sunnybrook](#). SRI has one of the best recognized and most productive teams in the field of medical imaging and image-guided therapy in the world. The Physical Sciences Platform is comprised of 64 scientists and has a total staff of ~300, including close to 100 graduate students and postdoctoral fellows associated with the University of Toronto.

Research areas in Physical Sciences include Biomedical Imaging and Image Analysis (MRI, Ultrasound, X-Ray, Digital Pathology and Optical); Precision Medicine (Radiogenomics, Theranostics); Computational Modeling and Machine Learning; Design and Development of Medical Devices; Biophysics and Bioengineering. A major focus is Image-Guided Therapy, a theme that has been supported by the Canada Foundation for Innovation leading to the establishment of the [Centre for Research in Image-Guided Therapeutics](#); by the FedDev program resulting in Image-Guided Therapy cluster; and by the federal Strategic Innovation Fund giving rise to [Inovait](#), an industry-academic consortium for AI and Image-Guided Therapy. Physical Scientists at SRI engage clinical partners in their research and pursue opportunities to move their innovations to the clinic through pre-clinical and first-in-human testing to [commercialize the products of their research](#) by creating start-ups and licensing, and/or by partnering with companies in the development of new technologies.

For more information on the details of the position please [see the full posting](#).

Applicants should email a letter of interest indicating "Biosensors position", curriculum vitae, [self-identification form](#), and the names of three references to CRC@sri.utoronto.ca by April 30, 2021.

Applications are requested by April 30, 2021, but will be received until the position is filled.

Incomplete applications will not be considered.