Postdoctoral Fellow in AI applied to Microscopy Imaging

The Biomarker Imaging Laboratory (BIRL) is seeking a postdoctoral fellow to work on the development of AI methods for the analysis of multiplexing and microscopy images, molecular profiling data, and radiological images. The successful applicant will work on a variety of projects that involve the integration of multimodality information to create predictive and prognostic models in cancer.

Applicants should have a strong interest in deep learning applied to medical imaging. Previous experience with computational pathology and the analysis of molecular data is an advantage.

Required qualifications:

- Doctorate in a relevant discipline obtained within the last five years.
- Proven publication record in the development of machine learning algorithms applied to medical imaging and/or bioinformatics.
- Expert in Python
- Experience with TensorFlow and/or PyTorch
- Excellent English communication skills, both written and oral

Research Environment

The BIRL is situated at Sunnybrook Research Institute in Toronto. Research focuses on the development of new histopathology techniques and image-processing tools to enable imaging pathology correlation analyses in cancer and other diseases. The lab is equipped with an immuno-fluorescence multiplexing digital imaging system, facilities for the preparation of both microscopy slides and whole-mount tissue sections, and a Next Generation Sequencing system. The successful candidate will be expected to collaborate with researchers at Sunnybrook, the Ontario Institute for Cancer Research and elsewhere on a variety of projects. Information about the Sunnybrook Research Institute at the Sunnybrook Health Sciences Centre, one of Canada's largest research institutes, can be found here: https://sunnybrook.ca/research/

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. In accordance with Canadian Immigration requirements, this advertisement is directed initially to Canadian citizens and permanent residents. We thank you in advance for your interest. Only those candidates selected for an interview will be contacted. No phone calls please. Application screening will continue until a suitable candidate is identified.

To apply

Please submit a brief statement of research interests, a curriculum vita and contact information for 2-3 references (no letters required at this stage) to Yulia Yerofeyeva (yulia.yerofeyeva@sri.utoronto.ca).