SickKids®

Our brain tumor research laboratory is currently seeking outstanding young scientists to join our group as Bioinformatic Research Fellows focused on computational cancer genomics. Successful candidates will be recent PhD graduates with high levels of energy and curiosity, and who are interested in making fundamental discoveries in understanding the molecular biology of brain tumours, and in pursuing eventual independent careers in academic research.

Research approaches in the Taylor Lab include genomics, cell biology, functional genomics, mouse modeling, and developmental and stem cell biology (https://lab.research.sickkids.ca/taylor/). Projects in the laboratory are focused on malignancies of the central nervous system, and many have a direct connection to the clinic or to patient tumours. We have very large multi-omics datasets from hundreds of patient samples that we want you to mine to increase our understanding of recurrent and metastatic cancer. Fellows from our lab publish in very high impact journals (Nature, Cancer Cell, Cell) and routinely go on to run their own labs as independent PI's.

Come and join us, and be part of a fun, dynamic, and dedicated world-renowned team.

Job Title

Employment Type:	Research Fellow (Bioinformatician)	**Available:**	Immediately
Hours of Work:	35 hours per week	**Salary:**	Commensurate with experience
Department:	Developmental & Stem Cell Biology	**Deadline:**	Until Filled

Description of Position:
- Quantifying and modeling tumour evolution and statistical modeling of outcome following treatment.
- Develop new and innovative strategies for the analysis of cutting-edge single cell transcriptomic datasets to investigate gene function during normal mammalian brain development, and how abnormalities in normal brain development lead to the development of brain cancers.
- Mining, analysis and interpretation of data (whole-genome, whole-exome, ChIP-seq and RNAseq) in light of tumour evolution, with the aim of understanding the underlying dynamics of tumour growth, relapse, metastases and progression.

Qualifications:
Education:
- PhD or MD with previous training in bioinformatics, computer science, statistics or cell biology and possess exceptional computational skills. **The most advanced degree must have been conferred within the last 3 years**.

Experience/Skills:
- Experience with large-scale genomic data required.
- Prior experience with brain development, and/or cancer cell biology an asset.
- Prior first author publications are highly desirable.
- Must be self-motivated, well-organized, highly independent, and willing to train new students.
- Excellent communication, written and interpersonal skills are mandatory.
- Candidates with external funding or scholarships to help support their salary will be highly recruited.

How to Apply:

Interested candidates should submit a cover letter, their CV including contact information for three references, and a research plan (one to two pages outlining your current research interests and/or research plans for the next part of your career).