



Job Posting: Post-doctoral Fellow in Bioinformatics and Neurobiology

Faculty / Division

Medicine

Department

Laboratory Medicine and Pathobiology

Supervisor

Professor Scott Yuzwa

Campus

St. George (downtown Toronto)

Description

The Yuzwa lab in the Department of Laboratory Medicine and Pathobiology (LMP) at the University of Toronto is seeking to hire a Post-doctoral Fellow in Bioinformatics and Neurobiology. Work in our lab aims to understand how cell genesis occurs in the developing and mature brain under conditions of healthy physiology and disease. The successful applicant, working independently, with consultation from the Principal Investigator (PI), will lead the bioinformatic analysis of single-cell RNA-Sequencing (scRNA-seq) and spatially-resolved transcriptomic data generated under a number of interrelated projects. Such projects, primarily, aim to probe cell lineage and spatial relationships in the brain. The applicant will work closely with wet-lab colleagues to nominate hypotheses and predictions for further downstream testing and validation. Primary responsibilities will largely include independent (dry-lab) data analysis, however, the applicant may be required (as directed by the PI) to work with and train graduate/undergraduate students and collaborate with internal/external research groups.

Qualifications (Minimum)

Education: Applicant must hold a PhD or equivalent degree (within 3 years of being awarded) by the agreed upon start date in neuroscience, bioinformatics, computer science or a related discipline.

Experience: Applicant must demonstrate a strong record of research achievement as evidenced by the ability to prepare and publish scientific manuscripts in major journals and present research findings at scientific meetings. Willingness to participate in a small amount of wet-lab work (such as next-generation sequencing (NGS) library preparation) or prior wet-lab experience would be considered an asset but is not required. Prior training in neurobiology would be desirable.

Skills: Prior training in the analysis of NGS-based transcriptomic data is essential. Familiarity with the analysis of scRNA-seq data is highly desirable. A strong background in the R language and the use of common R packages employed to analyze transcriptomic data is required. Some

familiarity with Python/MATLAB/Unix/Linux environments and processing NGS data would be an asset. In addition, the applicant must possess a number of the following skills: experience with experimental design and troubleshooting; ability to adapt and learn new techniques; strong communicator (both oral and written); excellent analytical and problem-resolution skills; good time management and organizational skills with the ability to work on multiple competing tasks.

Job Posting

May 11, 2021

Job Closing

Open until filled.

Available

Immediately. Start dates up to September 2021 may be considered.

Salary:

The salary will be in the range of \$45,000-\$55,000 (CAD), commensurate of research accomplishments and experience.

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee's research and training and the needs of the supervisor's research program may require flexibility in the performance of the employee's duties and hours of work.

Application:

Please forward a cover letter, CV and names and contact information for three references to:

Dr. Scott Yuzwa
Department of Laboratory Medicine & Pathobiology
University of Toronto
Medical Sciences Building, 1 King's College Circle,
Toronto, ON M5S 1A8
Email: scott.yuzwa@utoronto.ca

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement.

Diversity Statement

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

Accessibility Statement

The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are

linked with our unwavering commitment to excellence in the pursuit of our academic mission. The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities. If you require any accommodations at any point during the application and hiring process, please contact imp.hr@utoronto.ca