

Posting Date: September 15, 2023

Department of Pharmacology and Toxicology/Faculty of Medicine
University of Toronto
JOB POSTING – POSTDOCTORAL FELLOW

Area of Research: Xenobiology, Synthetic Biology, Molecular Biology/Genetics

Description of position: Seeking a post-doctoral fellow to lead an on-going synthetic biology study investigating the use and applications of xenonucleic acids (chemically-modified nucleotides) in prokaryotes. In addition to carrying out experiments using CRISPR technology, adaptive laboratory evolution (ALE), and -omics techniques (e.g. RNA-seq), the postdoc will liaise with an international and interdisciplinary team of collaborators with expertise in machine learning/molecular modelling and synthetic organic chemistry.

Required qualifications: The successful applicant will have a PhD in molecular biology or a related field (biochemistry, pharmacology, microbiology). In addition, they will have documented proficiency (through publications) with general molecular biology techniques such as molecular cloning, PCR, western blot analysis, and a track record of research excellence. Other required skills for this position include past experience culturing microbes (*E. coli*) and performing adaptive laboratory evolution (ALE) experiments with bacteria using turbidostat or chemostat methods. Additional preferred but not required qualifications include the ability to carry out next-generation DNA and RNA sequencing.

Salary: \$50,000 CAD

Application instructions

All individuals interested in this position must submit a CV, 2 examples of published or submitted work demonstrating aptitude in the above areas, and the names and contact information for 3 references to basil.hubbard@utoronto.ca by the closing date.

Closing date: December 22, 2023 or until filled, in accordance with CUPE 3902.

Supervisor: Dr. Basil P. Hubbard, Associate Professor, Department of Pharmacology and Toxicology, Temerty Faculty of Medicine, <https://www.hubbardlab.ca>

Expected date/Term: This FTE 1 position is available immediately for a 1 year term (renewable).

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.

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

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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.