Posting Date: November 26, 2021

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY
Faculty of Arts and Science University of Toronto

JOB POSTING – POSTDOCTORAL FELLOW

The Department of Ecology and Evolutionary Biology at the St. George campus of the University of Toronto invites applications for a Postdoctoral Fellowship in the Frederickson Lab.

Area of Research: Mutualism and symbiosis, specifically between plants and microbes

Description of duties: The Frederickson Lab is searching for a new Postdoctoral Fellow to work on a project developing a high-throughput experimental model of aquatic symbiosis using the duckweed *Lemna minor* and its microbial symbionts. Funding for this position comes from the Gordon and Betty Moore Foundation's Symbiosis in Aquatic Systems Initiative. The successful candidate will conduct growth chamber experiments using *L. minor* and its associated microbes, analyze large phenotypic and genomic or metagenomic datasets, and work with collaborators in the Dept. of Mechanical & Industrial Engineering to improve automation and throughput in this system.

Salary: $55,000 - $60,000 a year

Please note that should the minimum rates stipulated in the collective agreement be higher than rates stated in this posting, the minimum rates stated in the collective agreement shall prevail.

Required qualifications: The candidate must have a recent PhD in ecology, evolutionary biology, plant biology, microbiology, genomics, or a related field, with strong evidence of published research productivity. The ideal candidate will have extensive experience studying plant-microbe interactions through an ecological or evolutionary lens, as well as experience working with sequencing data (including genomic, metagenomic, and 16s amplicon datasets), and with statistical modelling. A solid background in computational methods and a keen interest in testing ecological or evolutionary hypotheses in plant-microbe lab microcosms is desirable.

Application instructions

All individuals interested in this position must submit the following documents to Professor Megan Frederickson (m.frederickson@utoronto.ca) by the closing date.

1. A short (1-3 pages) description of past research accomplishments and future research plans, and especially how their research interests and this position intersect
2. Current C.V.
3. Two or three (2-3) relevant publications
4. Contact information for two (2) references by the closing date

Closing date: December 17, 2021

Supervisor(s): Professor Megan Frederickson

Expected start date: January 1, 2022, with some flexibility for a later start date.

Term: 12 months, renewable for another 12 months subject to performance, suitable research progress, and available funding.

FTE: 100%. Depending on experimental requirements, evening and/or weekend work may be required.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Centre for Global Change, and the School of the Environment. The University owns a nearby field station dedicated to ecological and evolutionary research (the Koffler Scientific Reserve, www.ksr.utoronto.ca). The department also has a partnership with the Ontario Ministry of Natural Resources that helps provide access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Genomic analyses are supported by a number of high-performance computing resources, multi-lab bioinformaticians, as well as staff at the Centre for the Analysis of Genome Evolution and Function.

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, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.