

Posting Date: January 13, 2020

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

JOB POSTING – POSTDOCTORAL FELLOW

Area of Research: Landscape, hydrologic, and stream nutrient modeling

Description of duties: Work will involve: compilation of data provided by government partners and from website databases; statistical analysis and modeling of hydrologic regimes and chemical parameters (e.g. phosphorus, chloride) to estimate nutrient budgets for several river systems in the Toronto region; analyze how flow regimes are related to landscape features; determine how historical, contemporary, and estimations of future climatic regimes contribute to flow and nutrient dynamics in these river systems and how mitigation measures impact these dynamics. The post-doctoral researcher will be expected to coordinate two workshops with agency collaborators, present research at conferences, provide periodic reports to funding agency and publish study findings in scientific journals.

Salary: \$45,000 per year

Please note that should the minimum rates stipulated in the collective agreement fall below the 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 aquatic ecology, hydrology, landscape ecology, engineering or a related field with a strong understanding of aquatic ecosystems. The candidate must have strong quantitative skills (i.e. statistics, modeling, GIS) so that they can readily analyze and model landscape, climatic, hydrologic, and nutrient data to determine current nutrient loadings and those under historical and future scenarios. The candidate must have good communication skills to interact with collaborators, present at meetings and write scientific papers.

Application instructions

All individuals interested in this position must submit a cover letter detailing their relevant background, CV, three relevant publications, and contact information for three references. These materials should be emailed to both Dr. Todd Howell (Todd.Howell@ontario.ca) and Dr. Don Jackson (don.jackson@utoronto.ca) by the closing date.

Closing date: January 24, 2020

This position will remain open until filled, however we will begin to review complete applications after January 24, 2020

Supervisor(s): Professor Don Jackson (University of Toronto) and Dr. Todd Howell (Ontario Ministry of the Environment, Conservation and Parks)

Expected start date: **March 1, 2020** with flexibility for an earlier or later start date

Term: 24 months subject to performance/suitable research progress

FTE: 100%

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 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.