The Department of Biology at University of Toronto Mississauga (UTM) invites applications for a Postdoctoral Fellowship in the Wagner Lab.

**Area of Research**: Knowledge transfer of landscape connectivity modeling to support land-use planning

**Description of duties**: The Wagner Lab is searching for a Postdoctoral Fellow to work on a knowledge-transfer project on landscape connectivity modeling, which is funded by an NSERC Alliance grant. The successful candidate will carry out applied research to remove obstacles to the application of connectivity modeling in land-use planning, based on a series of case studies situated in Alberta, Canada. This will involve evaluating the performance of simplified resistance maps when modeling connectivity as current density, and developing a protocol that enables implementers to assess the effects of alternative scenarios of local land-use change on current density with in-house resources. This work will be performed in collaboration with our partner organization, the Alberta Biodiversity Monitoring Institute, and collaborators at the Prairie Conservation Forum, the Blood Tribe Land Management Office, Nature Conservancy Canada, the Miistakis Institute, and Credit Valley Conservation. The successful candidate will work at the UTM campus in Mississauga, Ontario, Canada, and travel to Alberta for meetings with project partners, Indigenous Peoples, and stakeholders.

**Salary**: $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 landscape ecology or a related field, with evidence of published research productivity. The ideal candidate will have extensive experience in landscape connectivity modeling, as well as strong R programming skills and experience with high performance computing. This position is best suited for a candidate who wants to pursue a career in applied research outside academia. Thus, it is desirable that the candidate has experience with, or a strong interest in, community research partnership and science communication. Also, any experience with, or a strong interest in, working with Indigenous communities in Canada will be an asset. Applicants from underrepresented groups are especially encouraged to apply.

**Application instructions**
All individuals interested in this position must submit the following documents to Professor Helene Wagner (helene.wagner@utoronto.ca) by the closing date.

1. A short (1-2 pages) description of past research accomplishments, skills relevant for the project, and especially how their research interests and career plans intersect with this position. If applicable, please elaborate on any experience with community research partnerships and on your interest, and any experience, in working with Indigenous communities in Canada.
2. Current C.V.
3. Two (2) relevant scientific publications, plus one (1) technical report or science communication article, if applicable.
4. Contact information for two (2) references by the closing date.
**Closing date:** February 28, 2022.

**Supervisor(s):** Professor Helene Wagner

**Expected start date:** April 2022, with some flexibility for a later start date.

**Term:** 12 months, renewable subject to performance, suitable research progress, and available funding. The project is expected to continue until Jan 2025.

**Full-time equivalent (FTE):** 100%. Travel to Alberta will be required and may involve some weekends.

The University of Toronto Mississauga and its affiliated institutions offer a stimulating and supportive environment with a variety of facilities and a highly interactive community of researchers. Excellent opportunities exist for collaboration within the Department of Biology at UTM and the tri-campus Graduate Department of Ecology and Evolutionary Biology, with other departments at UTM and with researchers at the St. George and Scarborough campuses of the University of Toronto, as well as with community partners in the Greater Toronto Area. High-performance computing resources are available on UTM campus and through SciNet, the supercomputer centre at the University of Toronto that provides resources for Compute Canada.

The Department of Biology is located at the University of Toronto Mississauga Campus, the largest division of the university with 17 academic departments, approximately 15,000 students and over 1,000 faculty and staff. UTM Biology offers exciting undergraduate programs in all of the major biological areas with specialization in four main topics: Ecology & Field Biology, Whole Organisms; Genetics & Evolution; Cell, Molecular & Developmental Biology; Physiology & Behaviour. Home to 22 world-class research faculty and more than 100 graduate students and postdoctoral fellows, UTM Biology advances the research in some of the most dynamic and vital areas of biological research such as neurobiology, unicellular organisms and viruses, climate change, and evolution.

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.*