



**MSc or PhD position available
School of Environmental Sciences
University of Guelph, ON, Canada**

Project title: Structural and functional connectivity of multi-purpose landscapes of Southern Ontario

Advisors: Dr. Madhur Anand and Dr. Genevieve Ali

Project description: This project aims to describe and quantify the ecological and hydrological connectivity of Southern Ontario landscapes, where a variety of land uses and natural areas coexist in a mosaic pattern. The student will focus on different ways of assessing structural and functional connectivity (e.g. ecological, hydrological and chemical connectivity) for a variety of landscape objectives (e.g. agricultural production, biodiversity conservation, provision of ecosystem services, resilience) and at multiple scales. The student will also analyze trade-offs between landscape objectives, and develop and compare optimization scenarios that ultimately contribute to the environmental and socio-economic sustainability of Southern Ontario ecosystems.

Qualifications: BSc (if applying for a MSc) or MSc degree (if applying for a PhD); areas of expertise: environmental sciences, ecology, sustainability, geography, rural planning, or similar; strong academic record (required); excellent skills in Geographical Information Systems (required); sound knowledge in quantitative analysis and statistics (required); ability to work both independently and in an interdisciplinary fashion; competence to handle multiple datasets and sources; previous scientific publications (strongly preferred).

Start date: September 2019

Funding: available for 2 yrs (MSc) or 3 yrs (for PhD) as per University of Guelph guidelines. Grant source: CFREF Food from Thought to Dr. Madhur Anand.

To apply: Send CV, letter of interest, (unofficial) undergraduate and graduate transcripts, and the contact information for two references to Dr. Madhur Anand (manand@uoguelph.ca) and Dr. Genevieve Ali (gali@uoguelph.ca).