

Postdoctoral Fellow – Watershed Modeling

The Watershed Evaluation Group at the University of Guelph is seeking a postdoctoral fellow to join the research team led by Dr. Wanhong Yang. The team members, comprising postdoctoral fellows, graduate, and undergraduate research assistants, have versatile expertise in watershed hydrologic modeling, integrated GIS, hydrologic and economic modeling, watershed evaluation of beneficial management practices (BMPs), and desktop GIS and WebGIS based interface tool development. The successful candidate for this position is expected to play an important role in several research projects that develop GIS based integrated economic-hydrologic modeling for evaluating cost effectiveness of BMPs in agricultural watersheds. There are also opportunities to enhance/develop nutrient and carbon cycling components of the watershed modeling. S/he should: 1) have a solid training on hydrology, geography, soil science, or related fields, 2) have hands-on experiences of applying watershed hydrologic models such as the Soil and Water Assessment Tool (SWAT) to conduct long-term simulations of runoff and its associated constituents (e.g., sediment and nutrients) at a watershed scale and/or biophysical models such as DNDC and DayCent, and 3) be familiar with commonly used GIS tools (e.g. ArcGIS). The demonstrated computer programming and relational database (such as PostgreSQL) skills would be an asset. This is a full-time, grant-funded research position for one year with possible renewal upon fund availability and a satisfactory performance.

Applicants should submit a curriculum vita/resume, a two-page statement of research experience and interest, and the contact information of three referees, to:

Dr. Wanhong Yang
Department of Geography, Environment and Geomatics
University of Guelph
Guelph, Ontario, Canada N1G 2W1
E-mail: wayang@uoguelph.ca
Ph: (519)824-4120 Ext. 53090
Fax: (519)837-2940
Websites:
<https://geq.uoguelph.ca/faculty/yang-wanhong>
<https://www.weg.uoguelph.ca>