

Postdoctoral Fellow – BMP Analysis and Watershed Modelling

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 conduct statistical analysis of water quantity and quality effects of agricultural BMPs to understand the relationships between watershed responses and various controls including climate variations, landuse and land management changes, and BMP implementation. In addition, the candidate will conduct watershed modelling to evaluate water quantity and quality effects of various agricultural BMP scenarios at a watershed scale. S/he should: 1) have a solid training on hydrology, geography, soil science, or related fields, 2). have strong statistical analysis skills, 3) 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 4) 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, a two-page statement of research experience and interest, and the contact information of three referees, to:

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We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.