

POSTDOCTORAL POSITION IN

Water related risks and opportunities for wetland viability and restoration

The *Watershed Science & Modelling Lab* of the Earth and Atmospheric Department at the University of Alberta invites applications for a postdoctoral research position. An innovative and highly motivated candidate is sought to conduct research project funded by Alberta Biodiversity Monitoring Institute and Alberta Innovates.

This multi-disciplinary and multi-component project aims to study "Impacts of changing water supply on ecosystem water needs in the context of wetlands and their viability in southern Alberta". Development of an integrated groundwater-surface water model is expected to specifically study the dynamic interactions of ground water and surface water supply under changing climate. The integrated tool is sought to study the impacts on wetland viability and restoration success in Alberta's watersheds.

The successful candidates for this position will have to meet the following criteria:

- Candidate must have a doctoral degree in hydrology, environmental engineering, environmental sciences, water resources management or a closely related fields.
- Candidate should have a thorough understanding of watershed geo-hydrology with a specific focus on soil-plant-water relationship and interactions with climate and land management practices.
- Candidate must have experience with development (coding) of process-based hydrologic models (preferably SWAT and MODFLOW), large dataset compilation and processing, or alternatively, with development of subroutines to complement process-based watershed models. Skills in GIS, remote sensing data processing, and programming in R (or similar languages) and statistical analysis are desirable.
- Applicant must have track record of success in publishing peer reviewed papers.
- Applicant must have strong written and oral communication skills and be able to work both independently and collaboratively.

To Apply:

Application instructions. Example - Forward your CV and contact information for three references to:

Send a Curriculum Vita; statement of research interest (indicating what questions in job advertisement you find interesting and important, and why, as well how you think progress could be made); names and email addresses of 3 referees to Dr. Monireh Faramarzi via faramarz@ualberta.ca

Salary

Depends on the candidate's skill set (\$40,000-\$50,000 CAD/year)

Term

Two years with the possibility of extension.

Closing date:

Position open until filled.

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

The University of Alberta offers appointments on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities and Aboriginal persons.