



GLOBAL WATER FUTURES

GLOBAL INSTITUTE FOR WATER SECURITY, UNIVERSITY OF SASKATCHEWAN, CANADA


Tenure-Track or Tenured Position in Exposure and/or Risk Assessment Modelling as Assistant Professor, Associate Professor, or Professor

To enhance the University of Saskatchewan's (U of S) and Canada's capability to deliver transformative science in Water Security, the Global Institute for Water Security (GIWS), U of S, invites applications from outstanding researchers for a tenure-track or tenured position in the area of **Exposure and/or Risk Assessment Modelling** as Assistant Professor, Associate Professor or Professor. Tenured appointments may be offered where candidates hold tenured or equivalent status at a comparable institution. The position will report to the Director, GIWS, be based in the Global Water Futures research group, and have an associated academic appointment and academic reporting line in an appropriate U of S college or school.

The position is funded by, and will contribute to, the Global Water Futures (GWF) program, a transformative pan-Canadian research program, led by the U of S. GWF aims to place Canada as a global leader in water science for the world's cold regions and to address the strategic needs of the Canadian economy in adapting to change and managing the risks of uncertain water futures, including extreme events and compromised water quality. GWF is transdisciplinary, working with a wide range of users and integrating the natural, social, health and engineering sciences to provide disaster warning, improved prediction of climate and water futures, and the decision support tools needed to inform adaptation to change and risk management. This 7 year, \$143 million program builds on the expertise of the U of S and 3 key partner universities (McMaster, Waterloo, Wilfred Laurier), faculty from 14 other universities, and 8 federal agencies, with strong international collaboration.

Exposure and/or Risk Assessment Modelling: The U of S has world leading expertise in aquatic toxicology and environmental chemistry, but there is a need to complement and integrate strong experimental and analytical capabilities with modelling expertise linked to exposure assessment (environmental and human) and aquatic ecological risk assessment. This will enable development of new institutional capability for ecological and human health risk assessment modelling. Such modelling expertise could include: source-pathway-receptor exposure modelling for environmental contaminants; integrated exposure and effects modelling; modelling of integrated risk to ecosystems from multiple contaminant exposures; modelling of contaminant fate and effects at the watershed scale; and development/refinement of new approaches to





modelling of contaminant exposure and integrated ecological risk. Potential modelling and risk assessment applications include ecological impacts of current and legacy mining and oil sands developments, the operational and regulatory management of contaminated water resources, the prediction of future impacts of anthropogenic influences and environmental change on aquatic ecosystems, and exposure mapping of contaminated sites. The successful applicant will have experience with regulatory exposure and risk models; a proven track record of, or show clear potential for, internationally-recognized research in ecological and/or human health risk assessment and associated modelling; a demonstrated track record of interdisciplinary collaboration; and experience in securing extramural research funding.

Applicants for this position will have a Ph.D. in a relevant discipline and show evidence of, or potential for, excellent, internationally leading research in this field. Candidates will have demonstrated excellence, or show promise of excellence, in teaching and graduate student supervision, will be expected to teach at both the undergraduate and graduate level, and will be expected to develop a vigorous, externally funded research program within GWF that complements the research programs of the GIWS and the Toxicology Centre. Candidates must have excellent interpersonal skills, as demonstrated through collaborative interdisciplinary interactions, community engagement and faculty collegiality, and experience with interdisciplinary research partnerships. The successful candidate is expected to develop research collaboration with other researchers across the GWF program. Prospective candidates are encouraged to visit the following websites for additional details:

- Global Institute for Water Security: <http://www.usask.ca/water/>
- Global Water Futures: <http://gwf.usask.ca/>
- Toxicology Centre: <http://www.usask.ca/toxicology/>

The U of S is located in Saskatoon, Saskatchewan, a city with a diverse and thriving economic base, a vibrant arts community and a full range of leisure opportunities. The University, a member of the U15 group comprising Canada's leading research-intensive universities, has a reputation for excellence in teaching, research and scholarly activities, and offers a full range of undergraduate, graduate and professional programs to a student population of over 23,000.

Information about the University and the City of Saskatoon can be found at www.usask.ca, <http://tourismsaskatoon.com> and <http://www.downtownsaskatoon.com>.

Salary and Benefits

Salary bands for the position are as follows: Assistant Professor \$93,293-\$112,109; Associate Professor \$112,109 - \$130,295; Professor: \$130,925 – \$152,866. Additional remuneration may be available at the Professor level for merit and additional administrative duties. This position comes with a comprehensive benefits package which includes a pension plan, life insurance (compulsory and voluntary), sick leave, travel insurance, death benefit, dental plan, extended health and vision care plan, employee assistance program, and flexible health and wellness spending program.



Application Procedure

To be considered for this opportunity, please send your CV and a letter of intent outlining your fit with the position profile, the GWF program and the GIWS community. Please also submit the names of three referees and a 3-5 page statement detailing teaching and research interests, vision, objectives and accomplishments, in confidence, to:

✦ **Phani Adapa, Ph.D., P.Eng.**

Assistant Director

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University of Saskatchewan

National Hydrology Research Centre

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Tel: (306)966-2271 Fax: (306) 966-1193; Email: phani.adapa@usask.ca

Review of applications will begin November 15, 2017, and continue until a suitable candidate is found.

The University of Saskatchewan is strongly committed to a diverse and inclusive workplace that empowers all employees to reach their full potential. All members of the university community share a responsibility for developing and maintaining an environment in which differences are valued and inclusiveness is practiced. The university welcomes applications from those who will contribute to the diversity of our community. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.