UNIVERSITY OF SASKATCHEWAN
Global Institute for Water Security

Postdoctoral Fellow Opportunity: Water Resource Systems

POSITION: The Global Institute for Water Security (GIWS) and the Department of Civil and Geological Engineering at the University of Saskatchewan invite applications for a postdoctoral position in water resource systems. We seek a highly qualified and motivated individual with research experience and proven record in water resource systems modeling and analysis. This position is funded by a Canada Excellence Research Chair program and will interface with provincial agencies in the Prairie Provinces of Canada and international research partners. The position is for a period of two years with the possibility of extension. **It is available to start immediately.** Remuneration for the position is competitive and will be commensurate with experience.

REPSONSIBILITIES: The successful candidate will work within a multidisciplinary water resource modeling team of researchers and graduate students led by Professors Howard Wheater, Amin Elshorbagy and Patricia Gober, with direct supervision from Professor Elshorbagy. The team is building a basin-wide water resource systems modeling framework using optimization-based and simulation-based techniques. The team is interested in (i) integrating socioeconomic aspects with hydrological aspects of water resources; (ii) introducing anthropogenic impacts into large scale watershed hydrology; and (iii) developing tools that facilitate negotiations and decision-making and reflect the input of researchers, policy makers, and water users. The successful candidate will participate in the supervision of graduate students.

QUALIFICATIONS: Applicants must have completed within the last 5 years, or be near completion, of a PhD degree in a related field. A strong background in classical and emerging optimization techniques, statistical analysis, impacts of climate change on water resources, and MATLAB programming is required. Familiarity with, or interest in, system dynamics, resource economics, and building visualization tools and model interfaces is considered an important asset. Evidence of successful publication in high quality international science journals is a requirement for this post.

DEADLINE: Review of applications will begin on **March 18, 2013** and will continue until a suitable candidate is identified.

TO APPLY: Applications should include a letter of interest, a full CV, and contact information for three referees and should be submitted, via email, to water.security@usask.ca. For more information, please contact Professor Elshorbagy at amin.elshorbagy@usask.ca.

The University of Saskatchewan is located in Saskatoon, Saskatchewan, Canada (www.tourismsaskatoon.com), a city with a diverse and thriving economic base, a strong research cluster, a vibrant arts community, and a full range of leisure opportunities. The U of S 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 about 20,000. The U of S is one of Canada's leading research-intensive universities. For information about the University of Saskatchewan, please visit www.usask.ca. Further details about the U of S CERC program and the Global Institute for Water Security can be found at www.usask.ca/water.

The University of Saskatchewan is committed to employment equity. Members of designated groups (women, aboriginal people, people with disabilities and visible minorities) are encouraged to self-identify on their applications.