

The **Department of Civil Engineering** at the **University of Manitoba** invites applications for a **full-time tenured or tenure-track position** at the **Associate or Full Professor** level in the area of **Physical Hydrology (Position 27724)**. The rank, tenure status and salary will be commensurate with qualifications and experience. This position is envisioned to become the **Manitoba Hydro Senior Research Chair in Hydrologic Modelling and Analysis**. The anticipated start date is July 1, 2020 or soon thereafter.

The successful candidate: 1) must hold an undergraduate degree in Engineering and a doctoral degree related to physical hydrology; 2) must be registered or eligible for registration as a member of Engineers Geoscientists Manitoba as P.Eng.; 3) will be expected to develop and teach core Civil Engineering courses at the undergraduate and graduate levels; 4) will be expected to establish an externally funded and sustainable research program, 5) will be expected to submit a proposal for an NSERC Alliance Grant to match the Manitoba Hydro research contribution of \$125K/year plus in-kind contributions for five years; 6) must possess excellent communication and leadership skills.

We are particularly interested in candidates who complement existing expertise in the Department of Civil Engineering and who have a demonstrated record of research and publications in the area of large-scale physically-based hydrologic modelling. The candidate would be expected to develop a research program with scientific and industrial applications in hydrology to address water resource and related meteorological and climate issues, that are important to managing water resources with a focus on the Nelson-Churchill watershed. In addition to physically-based hydrologic modelling and inflow forecasting, expertise in one or more of the following areas is an asset: cold region hydrology, climate change impact analyses on short and long-term water supply, statistical and dynamical downscaling, hydrometeorology, experience with hydrological models, such as, WATFLOOD, HEC-HMS, or SWAT.

The Water Resources Engineering Group constitutes a core portion of the Civil Engineering Department and has established collaborations both within the Department and Faculty and with external industry and other Canadian research networks. Its funding comes from NSERC, the Province of Manitoba, the City of Winnipeg, Manitoba Hydro, and other industries. The Water Resources Engineering Group has a state-of-the-art Hydraulics Research and Testing Facility that includes recently upgraded teaching laboratories.

The Department of Civil Engineering ([www.umanitoba.ca/civil](http://www.umanitoba.ca/civil)) has twenty-two faculty members, thirteen support staff, and approximately two hundred and seventy undergraduate and one hundred and sixty graduate students. Approximately thirty percent of faculty members and thirty percent of students at both the graduate and undergraduate level are female.

The University of Manitoba is a research-intensive university. From its two campuses in Winnipeg, the university serves all parts of the Province, including inner city and suburban areas, rural and northern communities, and attracts students from all population groups and walks of life.

The University of Manitoba is strongly committed to equity and diversity within its community

and especially welcomes applications from women, racialized persons, Indigenous Peoples, persons with disabilities, persons of all sexual orientations and genders, and others who may contribute to the further diversification of ideas. If you require accommodation supports during the recruitment process, please contact U of M's Equity, Diversity and Inclusion Facilitator, Valerie Williams at [Valerie.Williams@umanitoba.ca](mailto:Valerie.Williams@umanitoba.ca) or 204-474-8371. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

Review of applications will begin **January 6, 2020**, and will continue until the position is filled. Applicants are invited to submit a cover letter, curriculum vitae, a statement of research and teaching interests, three samples of publications, and names and contacts of three references. Applications must be submitted by email to [hydro27724@umanitoba.ca](mailto:hydro27724@umanitoba.ca). Please combine all documents in **one Adobe Acrobat (pdf) file** and indicate the position 27724 on all correspondence.

Enquiries about this search should be directed to the Search Committee Chair:

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Application materials, including letters of reference, will be handled in accordance with the protection of privacy provision of "The Freedom of Information and Protection of Privacy" (Manitoba). Please note that curriculum vitae may be provided to participating members of the search process.