EMPLOYMENT OPPORTUNITIES

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COMPETITION: #23-31

DEPARTMENT OF CIVIL ENGINEERING
TENURE-TRACK ASSISTANT PROFESSOR IN HYDROTECHNICAL ENGINEERING FOR CLIMATE ADAPTATION

The University of New Brunswick's Department of Civil Engineering, in the Faculty of Engineering, invites applications for a tenure-track position in Hydrotechnical engineering for climate adaptation at the rank of Assistant Professor. This position has an anticipated start date of July 1, 2024, or soon thereafter as may be negotiated with the successful applicant. Review of applications will commence by May 1 and will continue until the position is filled. The position is subject to final budgetary approval.

The Department is seeking candidates with research experience and/or interest in one or more of the following areas: quantification of climate change risks for water-related infrastructure, design and adaptation for mitigating inland and coastal flooding, sustainable/green stormwater system design, water-related infrastructure design/adaptation in the context of holistic watershed management, and integration of ecohydrology with future climate-influenced extreme events. Research and training in these areas will contribute to UNB's strategic research plan goal to mobilize knowledge to transform communities.

This is an opportunity for an individual to join a civil engineering department in a period of growth while placing increased emphasis on the profession's impacts on society and the environment through collaborative research and education offerings, and contribute to research and teaching in water and environmental engineering. Our department delivers accredited BScE programs in Civil Engineering and Geological Engineering, offering fundamental undergraduate courses in hydraulics, hydrology, hydrogeology, and environmental engineering, as well as advanced electives, graduate courses, and research in areas of water and wastewater treatment biotechnologies, groundwater-surface water interactions, and ecohydraulics.

Fredericton is an excellent setting to establish a research program focused on climate change adaptation; the Wolastoq | Saint John River flows through the centre of the city, and the surrounding areas include agricultural and coastal communities, Protected Natural Areas, and wetlands. The regional research community is collaborative, with established connections at other Atlantic universities and research organizations. Current infrastructure to support this position includes several laboratory facilities, field gear, and dedicated technical support for experimental research in hydrotechnical engineering.

This position also presents an opportunity to address the increasing needs of communities and industry sectors to adapt for water-related climate impacts, add unique expertise to the Faculty of Engineering in hydrotechnical engineering for climate adaptation, establish and maintain an innovative, externally funded, research program, and contribute to the training of highly qualified personnel. Potential partnerships are possible with many people and research centres across campus, including the Department of Earth Sciences, the Canadian Rivers Institute and the Department of Geodesy and Geomatics Engineering, with strengths in ocean, coastal and flood mapping, and remote sensing. In addition to the opportunities for collaboration internally, it is expected that there would be strong interest/support from

governments at all three levels (municipal, provincial, and federal), NGOs (e.g. CLIMAtlantic), Indigenous communities, and the private sector (e.g. engineering consulting firms) for the increased research capacity and highly-qualified personnel generated by the position.

Applicants will be expected to have a PhD in Civil Engineering or a related field with evidence of, or demonstrated potential for, excellence in research and teaching and a commitment to an inclusive learning and working environment. Experience in engineering practice is also desirable, and the potential to collaborate with and complement other researchers in the Department or at the University will be considered an asset. Applicants must be eligible and willing to register as a Professional Engineer in the Province of New Brunswick.

The Department of Civil Engineering has faculty members with research expertise in all major subdisciplines including construction, environmental, geotechnical, hydrotechnical, materials, structural, and transportation. The Department of Civil Engineering has many well-established working and research partnerships with public and private organizations regionally, nationally, and internationally, that provide many opportunities for collaboration. The Department hosts several specialty research chairs and research groups. Further information about the Department is available at: https://www.unb.ca/fredericton/engineering/depts/civil/index.html.

The University of New Brunswick has been nurturing discovery and innovation for over 200 years. The Fredericton campus, in the capital city of New Brunswick, delivered the first lecture in civil engineering in Canada in 1854. The Department of Civil Engineering offers 4-year bachelor's degrees in civil engineering and geological engineering, and research-based graduate degrees programs (MEng, MScE, PhD) in Civil Engineering. The combined undergraduate and graduate student enrolment is typically 350 to 400.

Applications should be emailed to the attention of Dr. Jeff H. Rankin, Chair of the Department of Civil Engineering, at civileng@unb.ca. Please include in a single PDF file: a cover letter, a detailed curriculum vitae, a statement of research and a teaching dossier (including aspects of EDI). In addition, please provide three academic references with their contact information. Applicants should indicate current citizenship status.

To request accommodations at any stage in the recruitment and hiring process, please contact the University's Recruitment & Employee Experience Specialist at 506-453-4648 or people@unb.ca.

Short-listed candidates will be required to provide satisfactory proof of credentials including appropriately certified translations of credentials into English, as applicable.

The University of New Brunswick is committed to employment equity and fostering diversity within our community and developing an inclusive workplace that reflects the richness of the broader community that we serve. The University welcomes and encourages applications from all qualified individuals who will help us achieve our goals, including women, visible minorities, Aboriginal persons, persons with disabilities, persons of any sexual orientation, gender identity or gender expression. Preference will be given to Canadian citizens and permanent residents of Canada.