

Manitoba Government Job Opportunities

Flood Damage Reduction Hydraulic Engineer

Regular/Full-Time

Manitoba Transportation and Infrastructure

Hydrologic Forecasting and Water Management

Engineering and Technical Services

Winnipeg, MB

Advertisement Number: 44991

Salary Range: \$95,303.00 - \$124,732.00 per year

Closing Date: March 15, 2026

The Manitoba government recognizes the importance of building an exemplary public service reflective of the citizens it serves, where diverse abilities, backgrounds, cultures, identities, languages, and perspectives drives a high standard of service and innovation. The Manitoba government supports equitable employment practices and promotes representation of designated groups (women, Indigenous people, persons with disabilities, visible minorities).

Employment Equity is a factor in selection for this competition. Consideration will be given to women, Indigenous people, and persons with disabilities.

An eligibility list may be created for similar positions and will remain in effect for 12 months.

Candidates who do not meet all essential criteria may be considered on an underfill basis at a commensurate rate of pay.

The Hydrologic Forecasting and Water Management Branch of the Department of Transportation and Infrastructure is seeking qualified candidates for the role of a Flood Damage Reduction Hydraulic Engineer.

To be considered for this competition, you must submit an Application Screening Form along with your resume and covering letter to the Public Service Commission by email at govjobs@gov.mb.ca quoting the advertisement number 44991 and position title in the subject line.

[Click here to access the application form.](#)

https://www.gov.mb.ca/govjobs/doc/Screening_Application_Form/application_form_for_screening_44991.docx

If you are having difficulty opening the link to the Application Screening Form, please contact Human Resource Services under “Apply to” to request a copy. The selection board will rely only on the information provided in the Application Screening Form, resume and covering letter to determine whether a candidate will be invited for further assessment.

Duties:

Manitoba Transportation and Infrastructure’s mission is to ensure safe, reliable, and sustainable infrastructure and services for Manitoba and its communities. The Flood Damage Reduction Hydraulic Engineer provides specialized engineering services encompassing hydraulic model development for flow and water level forecasting, flood risk mapping, emergency response, basin conditions monitoring, and infrastructure analysis and design. The Flood Damage Reduction Hydraulic Engineer is also responsible for conducting water management projects and managing and providing guidance on projects assigned to consultants.

Qualifications:

Essential:

- Extensive experience in hydraulic modelling, model calibration, verification using available tools such as HEC-RAS, MIKE11, etc., and using the model for water level and flow forecasts and to solve real time practical water management problems.
- Extensive experience in analysing and processing complex hydrometric and bathymetric data using GIS and preparing the data for model input, decision making, flood risk mapping and flood risk investigation.
- Knowledge of principles of hydrology and water resource engineering including hydrologic processes, hydro-meteorological data analysis, interpretation and spatial data representation.
- Ability to work in a fast-paced environment with multi-tasked team and working extended hours as needed to meet time sensitive demands for public safety.
- Ability to undertake independent research and develop proposals to introduce new industry innovations into department operations.
- Strong written communication skills including the ability to prepare technical and non-technical correspondence and reports and corresponding directly with the public on sensitive issues.
- Strong verbal communication skills.
- Effective interpersonal skills with the ability to foster collaborative working relationship with various internal and external stakeholders.
- Knowledge of Workplace Safety and Health work practices.

Conditions of Employment:

- Must be legally entitled to work in Canada
- Bachelor’s degree in civil engineering or equivalency recognized by Engineers Geoscientists Manitoba (EGM)
- Must be registered or be eligible for registration as a Professional Engineer with Engineers Geoscientists Manitoba (EGM)
- Must be willing and able to travel within Manitoba as required

- Must be able to occasionally work in an outdoor rough terrain environment in both winter and summer in extreme weather conditions

APPLY TO:

Advertisement No. 44991
Talent Acquisition
Human Resource Services
600-259 Portage Avenue
Winnipeg, MB. R3B 2A9
Phone: 204-945-7518
Fax: 204-945-0601
Email: govjobs@gov.mb.ca

Applicants may request reasonable accommodation related to the materials or activities used throughout the selection process.

*When applying to this position, please indicate the **advertisement number** and **position title** in the subject line and/or body of your email. Your cover letter, resumé and/or application must clearly indicate how you meet the qualifications.*

Please be advised that job competitions may be grieved by internal represented applicants. Should a selection grievance be filed, information from the competition file will be provided to the grievor's representative. Personal information irrelevant to the grievance and other information protected under legislation will be redacted.

We thank all who apply and advise that only those selected for further consideration will be contacted.

