

Senior Project Engineer (Water Resources)

D.M. Wills Associates Limited is in search of a Senior Project Engineer to join the Dams and Floodplains Group of our Water Resources Engineering Department.

Reporting to the Water Resources Engineering Department Manager the successful candidate will provide engineering services in support of a range of dam, dam safety and floodplain mapping projects. The work may also include work outside of the office environment, including dam inspections and other field investigations.

Key Responsibilities

- Provide technical leadership and excellence in the areas of hydrology and hydraulics.
- Carry out or oversee deterministic and statistical hydrological analyses to establish inflow hydrographs and peak flows. Experience with HEC-SSP, HEC-HMS and VisualOTTHYMO is required.
- Carry out or oversee 1D and/or 2D hydraulic modelling analyses, including dam breach, using HEC-RAS or GeoHEC-RAS. Experience with other hydraulic modelling software and with HEC-FIA or other flood impact assessment tool would be considered an asset.
- Carry out or oversee hydraulic design for water control structures.
- Participate in providing direction to junior engineers, EITs and designers and in maintaining the quality of work throughout a project.
- Prepare technical documentation including letters, reports, drawings and specifications.
- Contribute to business development and marketing activities for existing and new clients and support the preparation of technical proposals.
- Assist with project management of dam and floodplain mapping related projects, including environmental assessments, dam safety reviews, public safety risk assessments, dam rehabilitation or replacement designs, Emergency Preparedness and Response Plans (EPRP's), OMSS manuals, regulatory floodplain mapping studies and other projects as assigned.
- Follow applicable health, safety and environmental policies, procedures, standards and guidelines in the execution of all work.

Senior Project Engineer

Water Resources Department



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Partners in Engineering,
Land Use Planning and
Environmental Services



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Significant Qualifications

You must be a highly motivated and an independent learner with a desire to be involved with all aspects of consulting engineering services related to dams and floodplain mapping. Ideal qualifications include:

- Bachelor degree in Civil Engineering with a focus on Water Resources Engineering.
- Licensed as a Professional Engineer in the Province of Ontario.
- Minimum of five (5) years of relevant experience related to the key responsibilities of the position.
- Knowledge of the Ministry of Natural Resources and Forestry (MNRF) Technical Bulletins and Best Management Practices for Dams, the Canadian Dam Association (CDA) Dam Safety Guidelines and Technical Bulletins and the CDA Guidelines for Public Safety Around Dams.
- Knowledge of the Technical Guide - River and Stream Systems: Flooding Hazard Limit (MNRF).
- Experience with the ESRI ArcMap Geographic Information System (GIS) software package for the development of hydrology studies and flood inundation maps.
- Must be available to undertake fieldwork across Ontario.
- Must hold an Ontario G class drivers license.
- Excellent verbal and written English communication skills.
- Highly proficient in Microsoft Office suite of tools including, Excel, Word, PowerPoint, and Microsoft Project.

Additional qualifications that would be considered an asset to the position include:

- Experience in the completion of dam safety reviews, public safety risk assessments, dam rehabilitation and replacement design and other dam related projects.
- Registration and involvement with the Canadian Dam Association.
- Experience in the completion of stability assessments for concrete gravity dams.
- Experience in design for dam rehabilitation or replacement projects.



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Work Culture

At Wills, we value hard/smart work and promote a work-life balance for employees. We provide a balanced social and professional working environment that supports personal and professional goals for all employees. We are socially conscious and strive to make a difference in the communities in which we work.

Why this Job Matters

The work we do has a direct impact on the safety of our friends, families and the people of Ontario everyday. This is a responsibility that we take very seriously. Daily activities and decisions by our various teams have a direct impact on the people that use the infrastructure that we assess/design, both locally and provincially, making it important to have top talent.

What You Will Gain

As a Senior Project Engineer, you will gain hands-on design experience in the consulting engineering environment. You will have the opportunity to apply the engineering skills developed to date, as well as advance your knowledge of engineering theory, practical applications and societal implications of our engineering work. Depending on your interests and motivation, this job can provide an opportunity for a broad-based experience.

At Wills, we form partnerships with our staff, our clients and the public to create engineering solutions that work for today's complex problems.

Wills offers a competitive compensation package with comprehensive benefits and merit based bonuses for performance and tenure.

If you are a goal oriented, highly motivated individual who is looking to join a successful team, Wills is interested in speaking with you.

If interested, please submit a cover letter and resume directly to Wills' Human Resources at hr@dmwills.com, with the subject line "Senior Project Engineer – Water Resources".

We sincerely thank all candidates for their interest, however, please note that only those applicants selected for further consideration will be contacted.

If selected for an interview, please advise us if you require accommodation.



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