



## Job Posting

**Job Title:** Engineering Technologist (Floodplain Mapping)  
**Reports to:** Manager, Plan Review and Permitting Services  
**Hourly Rate:** \$30.83 - \$36.27 (15-month Contract)

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### Purpose

The primary responsibility of this position is the technical aspects related to floodplain mapping being undertaken by the Authority. Additional roles may include supporting the delivery of other Authority programs, including: municipal plan input and review; Section 28 regulations; and, flood preparedness. Day-to-day aspects of the position are under the supervision of the Engineering Services Coordinator.

### Primary Responsibilities (This is not an exhaustive list)

1. Undertake various hydrologic and hydraulic modeling components (under the supervision of a Professional Engineer) of floodplain mapping projects in accordance with provincial, federal and CA guidelines and standards. Participation in the preparation of project reports and materials. Participation in the stakeholder and public consultation process.
2. Liaise with Authority staff, staff from other CAs, consultants (e.g., peer reviewer) and municipal stakeholders on an ongoing basis to ensure that floodplain mapping project deliverables and schedules can be met. Act as an advisory resource to other Authority staff and municipal/agency partners on the floodplain mapping process.
3. Review and provide comments on hydraulic and hydrology reports, floodplain impact analysis reports, stormwater management reports, engineering drawings, and sedimentation and erosion control plans submitted to the Authority in support of Planning Act and Section 28 applications in accordance with Authority policies, the Provincial Policy Statement, and other technical guidelines as needed.
4. Maintain the Information Management System and electronic filing system for administration of the planning and permitting programs and any floodplain related databases.

5. Assist in the preparation of policies and procedures for the ongoing maintenance of the floodplain mapping products and third-party updates to floodplain mapping products.
6. Remain current in relevant government environmental and water resources engineering policy, procedures and standards, including hydrologic and hydraulic modeling software.

## Skill

- 3-year College diploma in engineering or Bachelor's degree in engineering, water resources or related discipline, or equivalent education and experience.
- Member in good standing with the Ontario Association of Certified Engineering Technologists and Technicians (OACETT) or Profession Engineers of Ontario (PEO) or be eligible for certification with OACETT or PEO or equivalent work experience.
- Minimum 3 years of relevant progressive experience.
- Knowledge of water resources engineering concepts including demonstrated proficiency in hydrologic and hydraulic computer models including HEC, Visual OttHYMO, and SWMM software.
- Ability to interpret earth processes, natural features and land uses from a variety of maps and plans, use of airphoto interpretation in the field. General knowledge of applied fluvial geomorphology, natural channel design non-structural erosion control and bioengineering techniques.
- Current knowledge of the relevant legislation and technical guidelines including River & Stream Systems technical guides, Stormwater Management Planning and Design Manual, Low Impact Development Stormwater Management Planning and Design Guide, etc.
- Strong computer skills and experience with Microsoft Word, Excel and Access, along with knowledge of Geographical Information Systems (GIS) applications.
- Knowledge and training with common drafting techniques and programs (AutoCAD Civil 3D) in addition to common survey methods and procedures.
- General understanding of field survey principles and practices using a total station and Real Time Kinematic (RTK) Global Positioning System (GPS).
- Knowledge of non-structural erosion control and bioengineering techniques.
- Valid Ontario Class G driver's license and clean driving record

## Core Competencies

### **Accountability**

Takes personal ownership and responsibility for the quality and timeliness of work commitments; follows organizational guidelines, professional standards, regulations and principles; demonstrates reliability and integrity on a daily basis; determines what will be accomplished including the required steps and actions that incorporate regulations and principles consistent with organization practices; recognizes errors in processes and practices and recommends corrective action; takes responsibility and ownership of mistakes.

### **Critical Thinking**

Monitors and analyzes the internal and external environment to identify current and future opportunities, challenges and risks; uses multiple sources in order to gather complete and accurate data; reflects on past experience and organizational practices and processes in order to develop consistent action plans; anticipates when situations will require higher level support and involves the right people in addressing needs in order to develop outcomes.

### **Planning and Organizing**

Accurately estimates duration and level of difficulty of tasks and projects and sets goals, objectives and work plans to complete; develops, maintains and oversees multiple plans that impact others, aligns necessary resources in order to ensure completion of plans; anticipates obstacles and has contingency plans, demonstrates judgment and flexibility as necessary.

### **Service Orientation**

Provides superior service to both internal and external customers; revises approach or actions based on client concerns or additional information; recognizes potential problems and works to resolve issues before they progress.

### **Teamwork**

Works cooperatively and effectively with others to reach a common goal; participates actively in group activities fostering a team environment; communicates effectively to team members regarding job task, responsibilities and project process; shares knowledge and experience with team members and others and solicits input and feedback from others.

## Effort

- Fatigue resulting from focusing and juggling priorities, high degree of concentrated attention, focused thinking/analysis
- Occasionally, and for short distances, lift or drag up to 27 kilograms (60 pounds).
- Occasionally, traverse irregular or uneven surfaces and terrain during completion of assigned field work.

## Working Conditions

- Working time is spent in a combination of office and field environments.