

RIDEAU VALLEY CONSERVATION AUTHORITY

JOB DESCRIPTION

Position Title: Water Resources Engineer, Natural Hazards	
Department: Science and Engineering	Supervisor's Position Title: Director, Science and Engineering
Classification: Band 6	Date of Issue: September 9, 2024

JOB SUMMARY

Under general direction, the *Water Resources Engineer, Natural Hazards* manages the Authority's hazardous lands and erosion hazards program and services; provides related professional review services for municipal partners; and otherwise supervises the Authority's involvement in all geotechnical and geomorphological projects.

RESPONSIBILITIES

1. Manages, enhances and implements all aspects of the Authority's hazardous lands and erosion hazards program in accordance with the *Conservation Authorities Act*, related provincial regulations and guidance, and internal plans, policies, strategies, and procedures.
2. Leads the standardized delineation and full documentation of the Authority's related hazard limit mapping.
3. Responsible for all related field, data management and reporting activities for hazardous lands and erosion hazards program (includes related GIS and other data procurement and management)
4. Supervises staff involvement in the hazardous lands and erosion hazards program, including technical training, quality assurance of products and services, and health and safety (including regular site inspection).
5. Secures and manages related external consulting services by producing Requests for Qualifications, Proposals, Quotation or Tender, establishing evaluation processes, and managing contracts.
6. Undertakes technical reviews of various reports in the geotechnical and geomorphic fields.
7. Routinely provides professional advice in accordance with the Authority's legislation, municipal agreements (or as requested), and professional PEO and current industry standards; this advice directly supports the Authority's regulatory decisions and Authority and municipal priorities and is often produced in collaboration with internal interdisciplinary experts and other stakeholders
8. Periodically provides expert testimony at the Authority's executive committee hearings, municipal tribunals and provincial court.
9. Identifies annual program priorities within the context of departmental priorities and produces annual program work plans, reports and budgets to address program priorities
10. Produces and revises related Authority policies and procedures and identifies related gaps and solutions

11. Reports to the Authority's Board of Directors, partners and public and represents the Authority at public meetings and in social-media and press communiques
12. Participates in related inter-agency working-groups, professional associations etc. to the mutual benefit of the Authority and these organizations.
13. Uses standard principles of project management for each program project and service, including full project documentation and budget tracking.
14. Other related duties as assigned.

EFFORT

- Approximately 80% office work including long periods of sitting
- 20% field work including physically navigating difficult terrain
- Long periods of concentration and looking at a computer screen including data entry and use of computer programs
- Long periods of driving throughout the watershed using an RVCA vehicle

WORKING CONDITIONS

- 80% of work performed in a normal office environment
- 20% of work performed outdoors occasionally including inclement weather
- Frequent interaction with stakeholders outside the organization
- Regular office hours with occasional evening and weekend work
- Exposed to potentially confrontational situations

REQUIRED KNOWLEDGE AND SKILLS

- Degree in environmental / civil / geological engineering with a concentration in geotechnical, geomorphological assessment
- Licensed with the Professional Engineers Ontario (PEO)
- Five years professional experience with related watershed engineering projects and services
- Knowledge of marine clay, organic soil and karst site characterization.
- Knowledge of fluvial geomorphological and geotechnical slope stability site characterization
- Knowledge of natural channel and bioengineering practices.
- Knowledge and experience of GIS products and databases
- Experience in reading and interpreting engineering drawings, maps, technical guidelines and infrastructure drawings.
- Experience in preparing and reviewing various geotechnical and inspection reports, geotechnical instrumentation and monitoring plans and designs.
- Proven project management skills including business plan development, project charters, milestone reports, work planning, scheduling and tracking, budgeting, invoicing, managing stakeholder relations, retaining and managing subcontractors, and preparing technical reports/presentations.
- Proven communication skills including business writing, presentations, effective reporting to management and Boards, and willingness to present to other stakeholders (municipalities, residents, other conservation authorities)
- Ability and willingness to learn, champion and excel at natural hazard management.

- Proficient with current geotechnical software applications including GeoStudio and Rocscience (Slope/W, Slide2D, etc.)
- Proficient in common workplace computer applications (e.g. MS-Word and Excel)
- Ability and willingness to work in an interdisciplinary context and with multiple stakeholders
- Ability and willingness to work occasional overtime and weekends
- Excellent written and verbal communication skills in English, French considered an asset
- Valid full G Class Ontario's Driver's License or equivalent and ability to provide a satisfactory driving record

HEALTH AND SAFETY REQUIREMENTS

To meet health and safety standards and regulations, the incumbent must be trained and/or evaluated.

- First Day Orientation
- Annual Orientation
- WHMIS
- RVCA Driver's Test
- Works around water (Pleasure Craft Operators License may be required)