

Fluvial Geomorphologist

Posting Start Date: September 9, 2024

Posting End Date: October 1 2024

Contract Type - Full Time, Permanent

Flexible work arrangement: Hybrid

Work location: Conservation Halton Administration Office/Remote

Your Opportunity

Reporting to the Manager, Science & Monitoring, with matrix reporting to the Senior Manager, Watershed Planning and Source Protection, the Fluvial Geomorphologist is responsible for undertaking fluvial geomorphology monitoring and assessments and supporting the preparation of Watershed Plans.

- Conduct field investigations of riverine systems by undertaking standard rapid and detailed geomorphological assessments, undertaking sediment composition and transport analyses, and characterizing channel morphology and floodplain dynamics.
- Analyse and interpret field data, while also using ortho imagery, and other sources, to understand the behaviour and changes in riverine systems over time.
- Use specialized software for developing models to analyse and simulate fluvial processes, including hydraulic modeling, sediment transport modeling, and erosion modeling.
- Collaborate with interdisciplinary teams to integrate fluvial geomorphology principles into restoration projects, considering ecological, hydrological, and engineering requirements.
- Use results of assessments to develop stream restoration and enhancement recommendations.
- Prepare technical reporting and presentations based on project deliverables and provide technical input to proposals for public and private sector clients.
- Support the Watershed Planning program and preparation of watershed plans with fluvial geomorphological data and analysis to improve the understanding of stream dynamics related to key natural resource issues and the impacts of climate change
- Support organizational wide project development, with an enterprise-wide mindset.

Your Qualifications

- Minimum of 5 years related work experience and a bachelor's degree related to geoscience, environmental or engineering discipline.
- Professional Geoscientist designation.
- Project management training, skills, and experience in project management and application of project management tools and techniques.
- Strong knowledge of fluvial processes, river dynamics, sediment transport, and channel morphology including rapid assessments and detailed fluvial geomorphological assessments.
- Knowledge of watershed modelling approaches and technical requirements such as 2D/3D flow modeling.
- Excellent data analysis and quantitative skills, including statistical analysis.
- Strong communication skills both verbal and written to present project recommendations to senior management, municipalities, and potentially the public, converting technical information and recommendations into language to be understood by a variety of audiences.
- Expertise and experience in fluvial geomorphological assessment and monitoring approaches.
- Proficiency in using GIS software for spatial analysis and mapping (e.g., ArcGIS).
- In-depth knowledge of conservation and water management principles and policies.
- Experience with watershed ecosystems, watershed planning processes and hydrology.

Your Reward

- Starting at \$96,193 annually based on a 35-hour work week
- You will work in an inspiring setting with views of the Niagara Escarpment and no traffic lights for several miles
- You will work with a creative, talented and solutions-focused team
- You will work for an organization that provides flexible work arrangements and places tremendous value on professional development and wellness of its employees
- Comprehensive benefits package
- Participation in the OMERS defined benefit pension plan, with generous employer-matching
- Free access to Conservation Ontario parks
- Season passes and lift tickets for the Glen Eden ski and snowboard area
- Discounts on Conservation Halton services, food and merchandise

Our Core Values

Diversity and Inclusion - We endeavor to understand, accept and appreciate the value of our differences and encourage authenticity.

Learning and Innovation - We embrace the need for continuous improvement, the opportunity to learn from others and the benefits of sharing knowledge.

Person-Centered Service - We make people a priority through customer-centred engagement, predictive problem-solving and high-quality service.

Collaboration - We seek out and trust in the skills, expertise and experience of others in order to achieve our common ambition.

Sustainability - We consider the environmental impact of everything we do and always keep future generations in mind when making decisions.

Integrity - We make decisions with accountability, transparency and a strong sense of personal responsibility for our choices and actions.

Resilience - We are positive and proud of our ability to quickly and effectively respond to change.

To Apply

Please email your application to careers@hrca.on.ca by **October 1, 2024**.

Your application should include:

1. Your resume and cover letter in one pdf document
2. Reference your name and the position title in the subject line
3. In the body of your email, please indicate where you heard about this opportunity

We thank all applicants for their interest however only those selected for an interview will be contacted.

In accordance with the Accessibility for Ontarians with Disabilities Act, 2005 and the Ontario Human Rights Code, Conservation Halton will provide accommodations throughout the recruitment, selection and/or assessment process to applicants with disabilities.

Personal information provided is collected under the authority of The Municipal Freedom of Information and Protection of Privacy Act.