



The Credit Valley Conservation Authority (CVC) is a partnership of the municipalities within the Credit River Watershed. We are dedicated to the conservation, protection, restoration and sustainable development of the natural resources of our watershed. Together we have a long and successful history of ensuring a clean supply of water for human and environmental needs. At this time, we are seeking to fill the position of:

## **Junior Fluvial Geomorphologist**

18 Month Contract Position

### **SUMMARY OF FUNCTIONS**

The junior fluvial geomorphologist will work with and be mentored by more senior staff. The candidate will work on a diverse range of projects across CVC relating to geomorphic processes. The position involves desk based research and analysis, fieldwork, design, report writing and map production. The role may include geomorphic monitoring and construction oversight. The junior geomorphologist will work with different specialists including but not limited to water resource engineers, aquatic and terrestrial ecologists and GIS and Civil3D specialists. The role will support various CVC departments including Watershed Management, Watershed Transformation and Planning Development Services.

### **SUMMARY OF MAJOR TASKS**

#### **Watershed Restoration**

- Develop and enhance the understanding of watershed restoration techniques within the CVC jurisdiction (at the catchment scale, reach scale and site scale).
- Support the development of Authority objectives, policies, procedures, guidelines, and programs for fluvial geomorphology, stormwater management and watershed restoration.
- Assist in the completion of feasibility studies, prioritization, and conceptual designs
- Assist in the development of conceptual and preliminary designs for restoration projects such as creek daylighting, channel realignments and in-channel restoration
- Assist with geomorphic monitoring of completed projects
- Coordinate and conduct geomorphic monitoring including installation, verification and maintenance of stream monitoring sites. Required to work in the field including off hours and inclement weather conditions.
- Assist with stream assessments (i.e. conduct geomorphic fieldwork to input to channel designs, inventory geomorphic processes, etc.) Maintain state-of-the-art knowledge in overall stormwater management, erosion management and watershed restoration techniques and equipment.

#### **Project Coordination**

- Provide project coordination, including project design, work plan development, budget preparation, and cost-accounting.
- Manage consultants including the preparation of terms of reference, scheduling, coordinating tasks, budgets, communications and invoicing.
- Develop and maintain effective partnerships and client relations with general public, municipal government staff, consultants, utilities, and other agencies/groups
- Assist more senior staff with project management tasks such as coordinating meetings, taking meeting notes and invoicing
- Assist in completing other ongoing projects and initiatives such as conference organization and preparation of presentations
- Projects will typically be geomorphology or restoration focused
- Work with other disciplines to meet project deadlines
- Work with GIS and Civil3D staff to produce maps and drawings

#### **Data Analysis, Review and Management**

- Review and provide quality assurance and quality control of stream assessment data.
- Conduct geomorphic data management, including the development and maintenance of erosion monitoring databases.
- Assist with the geomorphic review of designs and reports submitted to CVC as part of permit applications. This could

include subwatershed plans, Environmental Impact Reports, stormwater management design briefs, preliminary designs and detailed designs among others

### **Report Writing and Guidance Documents**

- Prepare terms of reference, communications, reports, and funding proposals to senior staff and Authority Boards as required.
- Develop and perform training on fluvial geomorphology processes.
- Develop communication materials such as guidance documents, fact sheets and technical reports, including ability to disseminate products for review to technical advisory committees for comments and incorporate feedback into final reports.
- Assist with the development of plain language reports tailored for target audiences such as commissioners, municipal staff, planners, engineers, utilities, etc.
- Assist in the preparation of geomorphology content for guidance documents and design guides
- Other duties and projects as appropriate to the position.

### **ELIGIBILITY REQUIREMENTS**

#### **Education**

- Bachelor Degree in in Geomorphology, Physical Geography, Environmental Science, Geology or related discipline is mandatory
- Master's Degree in Science with a focus on geomorphology and / or river restoration is strongly preferred
- Registered as a G.I.T. or P.Geo., or eligible for membership with the Association of Professional Geoscientists of Ontario would be considered an asset

#### **Experience**

- A minimum of 3 years of work experience in applied fluvial geomorphology is preferred

#### **Knowledge, Skills and Ability**

- Knowledge of design, policies and procedures related to fluvial geomorphology, erosion hazards and watershed management
- Practical experience in completing geomorphology fieldwork
- Demonstrated work experience in supporting river restoration design
- Knowledge of fluvial processes and forms
- Experience working in interdisciplinary teams on projects including restoration, watershed assessment, erosion management and / or habitat enhancement components
- Strong Multi-tasking skills including workplan development
- Strong computer skills in word processing (Word), spreadsheets (Excel), and database management (Access); experience with GIS, AutoCAD, Civil3D and / or HEC-RAS considered an asset
- Strong analytical and organizational skills to plan and organize tasks
- Strong written and oral communication skills to convey technical data in reports, guidance documents and oral presentations
- Air photo interpretation skills
- Environmental Assessment experience would be an asset
- Ability to work in a team and independently
- Surveying experience using total station, RTK etc. would be beneficial
- Must possess valid G driver's license

Note: All activities are expected to be performed in a safe manner, in accordance with the Occupational Health and Safety Act and its Regulations, along with CVC's Health and Safety policies, procedures and programs. In addition, all necessary personal protective equipment must be used and maintained in good condition.

This position generally works 35 hours, Monday to Friday. Majority of the time will be office based but regular field work will be required year round, sometimes in adverse weather conditions. Personal protective clothing, footwear and vest are required when visiting monitoring sites or construction sites.

CVC offers a competitive salary and full benefit package including health, dental, life and disability insurance, pension plan and a staff identification pass which entitles you to free entry into all conservation areas! CVC also offers its employees flex-hours and a beautiful view of the Credit River.

Anticipated Start and End Dates: September, 18, 2017 to March 18, 2019 (35 hours/week)

Annual Salary Starting at: \$62,833

Forward resume and cover letter by **August, 8<sup>th</sup>, 2017** to:

**Credit Valley Conservation**

Fax (905) 670-2210 or E-mail: [hrcvc@creditvalleyca.ca](mailto:hrcvc@creditvalleyca.ca)

[www.creditvalleyca.ca](http://www.creditvalleyca.ca)

Please quote **Junior Fluvial Geomorphologist** on resume/letter.

Resumes/letters submitted electronically must be submitted in Word format

We thank all applicants for their interest. However only those selected for an interview will be contacted. No phone calls please.

CVC is an Equal Opportunity Employer. In accordance with AODA (Accessibility for Ontarians with Disabilities Act, 2005), CVC will provide accommodations throughout the recruitment, selection and/or assessment process to applicants with disabilities. If you require disability – related accommodations, please inform the Human Resources (HR) staff. All personal information is collected under the authority of the municipal Freedom of Information and Protection of Privacy Act.