

# GIS Technician

**LOCATION:** Lower Thames Valley Conservation Authority Administration Office

**DEPARTMENT:** Watershed and Information Services

**REPORTING TO:** Jason Wintermute, Manager - Watershed and Information Services

**DATE POSTED:** September 21, 2022

**CLOSING DATE:** October 10, 2022

**ANTICIPATED START DATE:** November 7, 2022

## **PURPOSE OF POSITION:**

The Geographic Information System (GIS) Technician will provide technical support to natural heritage and natural hazards related management programs and projects. This will include development, co-ordination and implementation of the Geographic Information Services (GIS) program, providing related technical support to all departments, as well as some computer technical support.

## **QUALIFICATIONS:**

- A post-secondary degree or diploma from a recognized academic institution in GIS, geography, engineering, environmental science or other environmentally-related discipline with significant background in GIS and related computer system applications with at least two years' experience.
- Demonstrated knowledge and experience in the use and application of Geographic Information Systems, including ArcMap, ArcGIS Pro and QGIS.
- Knowledge of and experience with computer systems and software packages related to GIS, survey and general office IT.
- Knowledge and experience with GPS and traditional survey equipment.
- Knowledge and experience with databases formats and systems including: shapefiles, geodatabases, PostGIS databases, MS Access, and the general principles of relational and object-oriented database systems.
- Knowledge and experience with programming languages commonly used to support GIS applications.
- Knowledge and experience with GIS web tools and applications, such as ArcGIS Online and GeoServer would be an asset.
- Knowledge and experience with mobile field data collection applications such as Collector, Survey 123, Field Maps, and QField would be an asset.
- Knowledge and experience with statistical analyses and software (e.g. SAS and/or R) would be an asset.
- Familiarity with hydraulic/hydrologic models (e.g. Arc Hydro, HEC-RAS, PC-SWMM and Visual Otthymo) would be an asset.
- Familiarity with drones and associated imagery and elevation processing software would be an asset.

- Some experience in resource management, environmental assessment, municipal planning and/or civil engineering would be preferred.
- Excellent verbal and written communication skills in order to provide advice, teach or train and establish partnerships with diverse stakeholder groups.
- Ability to work effectively in a team environment.
- Ability to work independently and solve problems.
- Effective at managing time and prioritizing tasks.
- Valid G Class Drivers Licence (Mandatory).

### **SPECIFIC RESPONSIBILITIES:**

- Develop, co-ordinate and implement the Geographic Information Services program.
- Maintain and further develop, in cooperation with other programs in the authority, a comprehensive resource database for the watershed comprised of abiotic, biotic and cultural resource information.
- Work with conservation authority staff, government agencies, municipalities, community groups and others to coordinate the collection, analysis, sharing and reporting of GIS resource data.
- Undertake GIS projects in support of hydraulic/hydrologic models, flood risk mapping, hazard mapping, natural heritage studies, integrated resource management, and other applications within the Authority's mandate.
- Develop queries, models, forecasts, interpretations and analyze and report on complex GIS resource data as requested to support the authority's various programs and project teams.
- Prepare mapping related to the Conservation Authority's Section 28 Regulations and resource management projects.
- Prepare reports for the board, participate in relevant committees, attend public meetings, etc., where required.
- Manage a GIS server which holds the Authority's GIS and associated data and that implements GeoServer and ArcGIS license manager.
- Assist in the production and implementation of study proposals and management strategies as they relate to GIS.
- Support and carry out GPS, traditional surveys and bathymetric surveys, and manage the purchasing and maintenance of associated field equipment
- Provide technical support to other GIS users in the Authority
- Assist with corporate IT technical support as required.
- Ensure that all approved Authority policies, procedures and practices are followed in regard to all health and safety/risk management regulations, policies and practices.
- Participate in multi-disciplinary teams within the Authority.

### **COMPENSATION & HOURS:**

- Full time with benefits after probation and dependent on performance review.
- 35 hours per week – 8:30 to 4:30 with 1 hour lunch.
- Salary: \$27.39 /hour starting wage



## Lower Thames Valley Conservation Authority Employment Posting

Please send a resume and cover letter by Sunday, October 9<sup>th</sup> noting this position to:

Lower Thames Valley Conservation Authority  
100 Thames Street  
Chatham, ON N7L 2Y8 or  
Fax: 519-352-3435 or  
Email: [careers@ltvca.ca](mailto:careers@ltvca.ca)

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

LTVCA is an equal opportunity employer in accordance with the Accessibility for Ontarians with Disabilities Act, 2005 and the Ontario Human Rights Code. LTVCA is committed to providing accommodations throughout the recruitment, selection and/or assessment process to applicants with disabilities. If you require disability related accommodations, please notify us and we will work with you to meet your needs. Personal information provided is collected under the authority of the Municipal Freedom of Information and Protection of Privacy Act.