

EMPLOYMENT OPPORTUNITY

Geographic Information Systems (GIS)-Database Technician



Your Opportunity

The North Bay-Mattawa Conservation Authority (NBMCA) is a community-based environmental organization. We are dedicated to conserving, restoring, developing, and managing renewable natural resources on a watershed basis, considering human, economic and natural environment needs together in an integrated watershed management approach.

Reporting to the Director, Corporate Services, the Geographic Information Systems (GIS)-Database Technician is a full time position in a multi-disciplinary team environment. The main role is to develop and maintain spatial data and associated databases, metadata, and information products as a strong foundation for multiple program areas at NBMCA. Responsibilities include but are not limited to:

- Provide GIS, database and data management services for NBMCA programs.
- Organize and integrate various types of information into GIS, including spatial and non-spatial data, hard copy and electronic files, and environmental data.
- Develop queries, models and cartographic products as requested to achieve the objectives of various NBMCA programs and projects.
- Develop, acquire, maintain and upgrade all necessary hardware, software, and legal licensing obligations to fulfill NBMCA's GIS needs.
- Coordinate data acquisition and management with partner agencies; facilitate data sharing with external agencies and public requests.
- Perform analyses using GIS resource data and report findings for distribution to staff, municipalities, government agencies and other stakeholders.
- Edit and quality control 3D terrain Model information and feed into hydrologic models.
- Update flood plain mapping after revising associated data according to Ontario Regulation 177/06 under Section 28 of the Conservation Authorities Act.
- Develop and maintain databases including complex relational databases and set up queries to inform various program areas.
- Assist with implementation of changes to the Conservation Authorities Act.
- Limited field work and travel may be required.
- Other duties as assigned.

Your Qualifications

- Minimum of three years of GIS work experience.
- Degree or diploma from a recognized university or college with a specialization in GIS, geomatics, information management, geography, biology, natural resources or computer science.
- Experience with Access databases, querying, SQL and Enterprise Geodatabases.
- Knowledge or ability to quickly learn code/scriptwriting, such as C#, Python, JavaScript, HTML.
- Experience using the ArcGIS suite of tools to manage and maintain geospatial datasets, perform spatial analysis and produce map products.
- Experience with online web mapping applications such as Geocortex and ArcGIS Online.
- Excellent understanding of projections, datums and using and editing surface rasters such as digital terrain models (DTM), digital elevation models (DEM), digital surface models (DSM); including TIN, terrains, contour extraction and watershed boundaries.
- Experience using information gathering standards and practices (e.g. data collection, data entry, metadata), data security, data quality control and data conversion.
- Knowledge and experience in the use of GIS for hydrological analysis would be an asset.

- Knowledge of photo/satellite image interpretation and ArcHydro would be an asset.
- Excellent problem solving, analytical, time management, communications and organization skills and ability to work with limited supervision.
- A positive and professional demeanor, ability to work effectively independently and as part of a team.
- Demonstrated ability to work in a fast-paced environment, while meeting daily deadlines and maintaining accuracy.
- Valid MTO “G” driver’s license with a clean driving record.

Your Reward

Salary range of \$34.83 to \$40.75 per hour based on a 35-hour work week.

Full-time employment.

You will work with a creative, talented and solutions-focused team.

Benefits package and participation in the OMERS defined benefit pension plan.

Free access to NBMCA parks.

To Apply

Please send your resume and cover letter no later than **Friday March 1, 2024 at 11:59pm (Eastern Standard Time)** to:

Email: jobs@nbmca.ca

Human Resources

North Bay-Mattawa Conservation Authority, 15 Janey Avenue, North Bay, ON P1C 1N1

Our Mission

The North Bay-Mattawa Conservation Authority provides leadership through coordination of watershed planning, implementation of resource management programs and promotion of conservation awareness in cooperation with others.

Our Vision

Providing effective leadership in the management of our watersheds where partners and communities are actively engaged in balancing human needs with the needs of the natural environment.

Our Values

- **Action:** Establish priorities and undertake initiatives based on desired results, ensuring that actions or decisions are undertaken individually and collectively in an accountable and timely manner.
- **Collaboration:** Work together with our partners and communities to strengthen our approach and create synergy for improving watershed management.
- **Innovation:** Be a leader in science-based integrated watershed management that accommodates taking new approaches to our business.
- **Transparency:** Communicate and share information and ideas using appropriate language and outreach techniques to bring about clear understanding.
- **Integrity:** Ensure that actions or decisions do not compromise our fundamental values or principles.

We thank all applicants for their interest; however only those selected for an interview will be contacted. NBMCA is an Equal Opportunity Employer in accordance with the Accessibility of Ontarians with Disabilities Act, 2005 and the Ontario Human Rights Code. NBMCA will accommodate applicants with disabilities throughout the recruitment, selection and/or assessment process. If selected to participate in the recruitment, selection and/or assessment process, please inform staff of the nature of any accommodation(s) that you may require. Personal information contained in applications will be used for recruitment purposes and collected as per the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, Chapter M.56.