Niagara Region

Job Opening

Job Title:	Asset Information Technologist (Water & Wastewater)		
Job Opening Id:	28753	**# Required:**	1
Business Unit:	Public Works	**Division:**	Water & Wastewater
Location:	Environmental Centre	**Standard Hours:**	35.00 / week
Full/Part Time:	Full-Time	**Regular/Temporary:**	Temporary
Salary Grade:	5	**Salary Range:**	$ 69,440.00 - $ 81,690.00
Post Date:	2021-06-10	**Close Date:**	2021-06-23

Approximate Duration: 24 months

Serving a diverse urban and rural population of more than 430,000, Niagara Region is focused on building a strong and prosperous Niagara. Working collaboratively with 12 local area municipalities and numerous community partners, the Region delivers a range of high quality programs and services to support and advance the well-being of individuals, families and communities within its boundaries. Nestled between the great lakes of Erie and Ontario, the Niagara peninsula features some of Canada's most fertile agricultural land, the majesty of Niagara Falls and communities that are rich in both history and recreational and cultural opportunities. Niagara boasts dynamic modern cities, Canada's most developed wine industry, a temperate climate, extraordinary theatre, and some of Ontario's most breathtaking countryside. An international destination with easy access to its binational U.S. neighbour New York State, Niagara attracts over 14 million visitors annually, as well as a steady stream of new residents and businesses.

Job Summary

Reporting to the Supervisor of Asset Information, the Asset Information Technologist is responsible for providing technical and analytical support in the planning, implementation and enhancement of water and wastewater asset management, hydraulic modeling, and information management initiatives.

Education

Post-secondary degree in Geomatics, Geographic Information Systems, Computer Science/Engineering or related field of study. Post-graduate diploma in Geographic Information Systems (GIS) is preferred.

Formal training in asset management, business analysis and project management is preferred.

Additional training in water and wastewater treatment, water distribution and/or wastewater collection is preferred.

An equivalent combination of education, experience and qualifications may be considered.

Knowledge

Minimum 5 years' experience supporting civil engineering, asset management and GIS initiatives preferably within the public sector.

Working knowledge of Asset Management Standards and Standards such as ISO 55000, ISO 14224, DWQMS and relevant acts, by-laws and regulations is preferred.

Recognition by the relevant professional organization, such as the Association of Certified Engineering Technicians and Technologists (OACETT) or the Geographic Information Systems Certification Institute is preferred.

Demonstrated knowledge in database design, spatial data creation, maintenance and integration, including complex operations such as attribute calculation/validation/constraint scripting, and ESRI Utility Network modeling.

Technical competence, understanding and/or integration experience with application and information technologies in use at Niagara Region including InfoWater, InfoSWMM, Microsoft SharePoint, Microsoft Power BI, SQL Server, ArcGIS Arcade, Python and Safe Software's FME Strong analytical, planning, risk analysis and communication skills.

Experience with negotiations and conflict management.

Strong interpersonal and relationship management skills.

Responsibilities

Performs all aspects of GIS activities associated with collecting, creating, managing, mapping, editing and analyzing Water and Wastewater GIS data. (40% of time)

Manages all aspects of the development and implementation of spatial water and wastewater information system projects including; Conducting research in business requirements and user needs; Defining project scope, goals, success criteria and deliverables that support business goals in collaboration with senior management and stakeholders; Communicating project expectations to team members and stakeholders, liaising on an ongoing basis to manage expectations; Planning, scheduling and coordinating work across cross-functional teams; Tracking project milestones and deliverables; Determining the frequency and content of status reports from the project team, analyzing results, and troubleshooting problem areas; Acquiring, creating and integrating data; Reporting project status, including project KPIs to stakeholders.

Collaborates with internal and external teams to support the creation and maintenance of GIS layers.

Collects, creates, manages and analyzes spatial data.

Creates and administers data integration tasks and server jobs.

Oversees Area Municipal water, sanitary sewer and storm water data integration scripts and processes, troubleshoots and resolves issues and enhances Area Municipal data integration automation.

Creates, maintains and integrates Regional and Area Municipal GIS layers to support St. Catharines Fire Services, who provide fire dispatch services for all Niagara municipalities except Niagara Falls.

Using information technology and asset management principles, develops and implements systems and processes to realize value from acquiring, operating, maintaining and renewing assets, while delivering desired service levels, complying with regulations and identifying an appropriate level of business risk. (30% of time)

Assesses, integrates, analyzes, records and reports on asset condition, performance, maintenance costs, remaining life, replacement cost, service levels and forecasts demands.

Analyzes and integrates data to provide information products and reports for fact-based decision making.

Analyzes information sources to map systems architecture.

Assists in the administration and maintenance of the Division's asset registry and asset hierarchy.

Identifies methods, tools and solutions for sharing data and results.

Assists with development and/or improvement of data systems, controls, and processes to improve relevance, accuracy, access, timeliness, and presentation of appropriate data for asset management decision support.

Uses, supports, analyzes, assesses and develops current asset management processes, including gathering information and input from stakeholders.

Uses sophisticated tools for analytics, predictive analysis and data visualization.

Hydraulic Model Implementation and Maintenance (15% of time).

Creates and maintains hydraulic models for Niagara Region's water and wastewater systems.

Completes level-of-service evaluations of water and wastewater systems, using hydraulic modeling tools.

Manages relationships with and assists the local area municipalities in collaborative hydraulic modeling projects.

Initiates, organizes and manages hydraulic modeling consulting assignments.

Assists in the preparation and presentation of maps, dashboards and reports for public/internal meetings, training and conferences (15% of time).

Produces presentation and technical materials for GIS applications, analysis and operating procedures for internal and external users, 3rd party service providers and consultants.

Develops training materials and conducts training for GIS and asset management systems.

Designs, implements and maintains Microsoft SharePoint, ArcGIS Online and ArcGIS Portal pages and identifies opportunities for improvement.

Special Requirements

Must maintain ability to travel in a timely manner to other offices, work locations or sites as authorized by the Corporation for business reasons.

In accordance with the Corporate Criminal Record Check Policy, the position requires the incumbent to undergo a Criminal Records Check and submit a Canadian Police Clearance Certificate.

Regional staff strive to enable the strategic priorities of council and the organization through the completion of their work. Staff carry out their work by demonstrating the corporate values.

To view the full job description and requirements, visit our Careers page - **Job Opening #28753**

Uncover the wonder of the Niagara Region and join a team dedicated to meeting tomorrow's challenges…..today!

Let us know why you would be an excellent team member by submitting your online application no later than June 23, 2021 before midnight by visiting our 'Careers' page at www.niagararegion.ca . We thank all candidates for their interest however, only those candidates selected for an interview will be contacted