

Working Title GIS Specialist	Name
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Position Number	Reports to Position No., Class & Level Geospatial Unit Lead, South PS4	Division, Branch/Unit Strategy and Governance, Operational Services Branch, Provincial Geospatial Centre	Ministry Environment and Protected Areas
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Present Class Technologies VI	Requested Class Technologies VI
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Dept. ID	Program Code	Project Code (if applicable)
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PURPOSE:

The GIS Specialist reports to the Lead of the Geospatial Unit. The GIS Specialist is responsible for providing Resource Information, GIS and related Information Technology services to a wide variety of clients in support of regional and departmental business priorities and programs.

This position is responsible for:

- Planning, analysis, and developing complex custom mapping, GIS and other information products based on client requirements;
- Performing detailed data analysis projects, including client requirements definition, complex spatial analysis, spatial statistics, geoprocessing and generating custom maps and reports based on client requirements;
- Developing complex scripts, add-ins, tools and stand-alone applications;
- Complex geospatial and non-geospatial database design, development and implementation to support client requirements;
- Developing complex data management and field data collection processes and procedures;
- Determine process to perform data validation and quality control for complex data sets;
- Provide technical support and subject matter expertise on resource information, geomatics, GIS services to regional clients and mentoring fellow GIS professionals;
- Updating and maintaining standard mapping, GIS and other information products;
- Creation and delivery of technical training solutions

This position requires a high degree of technical expertise in geomatics, GIS and geospatial sciences and well as a broad knowledge of resource management and government policies and practices in order to support regional programs and client requirements. The incumbent is a senior member of the Geospatial Unit and is expected to work with minimal supervision and also act as a mentor and technical advisor to more junior team staff.

RESPONSIBILITIES AND ACTIVITIES:

1. Service Delivery - Delivering services to clients. This includes the following services:
 - Updating and maintaining standard mapping, GIS and other information products;
 - Developing complex custom mapping, GIS and other information products;
 - Performing complex spatial analysis, geo-processing and generating custom maps and reports;
 - Developing complex scripts, add-ins, tools and stand-alone applications;
 - Complex geospatial and non-geospatial database design, development and implementation;
 - Developing complex data management and field data collection processes and procedures;
 - Performing data validation and quality control for complex data sets;

RESPONSIBILITIES AND ACTIVITIES:	
<ul style="list-style-type: none">• Provide technical support and subject matter expertise on resource information, geomatics, and GIS. <p>2. Geospatial Unit Team Membership - Working as a senior member of the Geospatial Unit. This includes:</p> <ul style="list-style-type: none">• Working with the Geospatial Unit Lead to defining the scope of independent work and project management for client requests;• Working with clients and the Geospatial Unit lead in defining and documenting the relevant data, application and other requirements for requests;• Working with the Geospatial Unit Lead in developing the work plan, tasks and level of effort required to complete the deliverables required to complete the request;• Reporting to the Geospatial Unit lead on the progress and completion of tasks assigned;• Providing technical leadership to team members on industry best practices in the delivery of services. Mentoring and training junior team members as required.• Working with resource information project contractors and providing quality control checks on the final product;• Developing process and procedures to improve operations, streamline work processes.• Mentor staff to further build technical capacity within the Geospatial Unit <p>3. Client Consultation</p> <ul style="list-style-type: none">• Consulting with Geospatial Unit business clients on a request basis to ensure that the services delivered meet client requirements and expectations. This includes:• Consulting with clients to provide subject matter expertise, information needs and assist in the acquisition and provision of resource information and services at a senior level;• Maintaining positive working relationships within the Geospatial Unit and among clients to encourage the use of the same information. <p>4. Standards - Work with the Geospatial Unit Lead and other stakeholders in developing standards for data, processes and applications in accordance with industry best practices. This includes:</p> <ul style="list-style-type: none">• Developing and maintaining standards and specifications for the development and implementation of GIS data and technologies;• Developing, implementing and maintaining complex GIS and other databases;• Developing and maintaining regional and/or provincial standards for GIS data management and mobile data collection.	
SCOPE:	
<p>This position delivers Geospatial Unit services with a large degree of independence. The position requires an individual with a high degree of responsibility and technical expertise. This position requires and individual that can perform these functions with minimal supervision.</p> <p>The scope of data and services provided are wide ranging; from simple field level mapping/data analysis, to large scale cross ministry landscape level initiatives involving complex GIS analysis/modeling. The position requires a high degree of creativity and flexibility as well as technical knowledge in geomatics, GIS and informatics.</p>	
KNOWLEDGE, SKILLS & ABILITIES:	
<p>This position requires the following knowledge, skills and abilities:</p> <ul style="list-style-type: none">• Progressive experience in performing complex analysis and creating custom map and report products using ArcGIS Desktop and ArcGIS Pro;• Progressive experience in developing and publishing GIS map, feature, mobile and geodata services using ArcGIS Enterprise/Portal is desired;	

KNOWLEDGE, SKILLS & ABILITIES:

- Progressive experience in complex data analysis, modeling and database management required, using Enterprise Geodatabases is desirable;
- Progressive experience in data scripting using (e.g. Python and others);
- Experience in application development (using .NET framework or others) would be an asset;
- Demonstrated superior technical expertise in geomatics, Geographic Information Systems (GIS) and geospatial sciences, data and technologies;
- Demonstrated capability to prioritize and manage many requests with conflicting priorities at the same time;
- Superior problem-solving skills;
- Demonstrated experience working in a team environment, including acting as an advisor and mentor to other team members;
- Demonstrated knowledge of GIS data and processes as they apply to natural resource and environmental business practices;
- Experience in projects that utilize remote sensing, soft copy photogrammetry, LiDAR and RPAS data collection and processing would be considered an asset;
- Excellent interpersonal, oral, written and presentation skills;
- Technical diploma/degree/applied degree/masters with a Geomatics, GIS, or related natural resources specialization;
 - Two-year technical diploma in Geomatics, GIS, or related natural resources, plus six years related experience or equivalent.

CONTACTS:

Interacts daily with field staff (e.g. Biologists, Lands Officers, Environment Protection Officers, etc.) in a client service capacity to provide GIS and data support

Position works closely with Geospatial Unit Lead and other Geospatial Unit members in providing coordinated support, products, and services to multiple ministries,

Works closely with technical staff in other groups as required when working on collaborative projects.
This individual takes a lead role on projects and provides a mentoring role to peers on the Geospatial Unit.

SUPERVISION EXERCISED:

May occasionally supervise wage or temporary staff

CHANGES SINCE LAST CLASSIFICATION REVIEW:

NA