

TITLE: GEOGRAPHIC INFORMATION SYSTEM (GIS)
TECHNICIAN

CLASSIFICATION: STO18R

MINISTRY: AGRICULTURE AND FOOD

WORK UNIT: CORPORATE POLICY AND PRIORITIES
BRANCH, LAND USE & GEOSPATIAL UNIT

SUPERVISOR TITLE: TEAM LEAD, AGRICULTURAL LAND
INFORMATION

SUPERVISOR POSITION #: 00131236

PROGRAM

The Corporate Policy and Priorities Branch is one of four branches under the Science, Policy & Inspection Division of the BC Ministry of Agriculture and Food. The Branch provides corporate leadership, coordination and analysis of policy, legislative and data issues related to the ministry's mandate. The Branch is committed to exploring and using strategies to ensure the ministry has access to robust, evidence-based research and analysis that accurately reflects the perspectives and impacts to internal and external stakeholders.

This position is part of the Land Use and Geospatial Unit which includes land use planning, GIS services, and agricultural land use inventory (ALUI). ALUI provides the current and accurate land cover and land use information that is a prerequisite for responsible and effective management of BC's agricultural land.

JOB OVERVIEW

The GIS Technician provides services to clients and technical support to the agricultural land use inventory program through the use of use of Geographic Information Systems (GIS), Relational Database Management Systems (RDBMS), and a variety of other tools and applications. This position collaborates with a diverse team of geospatial professionals, agronomists, engineers, and land use planners across several units and branches.

ACCOUNTABILITIES

- Translates, integrates and manipulates data from various sources and formats to ministry standards.
- Conducts quality assurance on digital data and deliverables to ensure technical standards are met.
- Conducts spatial analysis and produces spatial data and information products such as thematic maps, online applications/dashboards, terrain models, and/or descriptive statistics.
- Consults with clients to determine and clarify production requirements for custom products.
- Reviews production requirements to determine whether deadlines can be met, prepares schedules, and organizes work sequences.
- Utilizes multiple Geographic Information Systems (GIS) related software and RDBM systems.
- Utilizes online tools to produce web maps/applications.
- Utilizes mobile technologies to develop field data collection tools.

- Creates digital data through heads up photo interpretation, imagery classification, and/or field surveys.

JOB REQUIREMENTS

EDUCATION AND EXPERIENCE:

- Degree or technical diploma in geographic information systems (GIS), geomatics, or equivalent; OR
- Degree in resource management, geography, computer science, or in a related field, plus a Certificate in geographic information systems (GIS) or equivalent; OR
- An equivalent combination of education and experience.
- Experience capturing, converting, creating, editing and/or maintaining digital information in a GIS environment.
- Experience creating a variety of digital, geographical and/or descriptive products including thematic maps, online applications/dashboards, terrain models and/or descriptive statistics.

Preference may be given to applicants with demonstrated work experience with:

- ArcGIS Pro.
- Python and ArcPy.
- ArcGIS Online and/or other web mapping applications.
- ArcGIS Field Maps and/or other mobile technologies.
- Relational databases and/or Microsoft Access.
- Environmental and/or natural resource management related data sets and analysis.

PROVISOS/WILLINGNESS STATEMENTS:

- Valid BC Class 5 Drivers License or equivalent.
- Willingness to conduct field data collection which may include travel by vehicle with overnight or extended stay in government approved accommodations.

Security screening:

- Successful completion of security screening requirements of the BC Public Service, which may include a criminal records check, and/or Criminal Records Review Act (CRRA) check, and/or enhanced security screening checks as required by the Ministry.

KNOWLEDGE, SKILLS AND ABILITIES:

- Technical skills with Geographical Information Systems.
- Ability to analyze complex spatial datasets and concisely convey results.
- Knowledge of agriculture, forestry, environmental management, or other natural science discipline .

- Knowledge of photo interpretation and imagery analysis.
- Ability to work independently or in project teams.
- Excellent written and verbal communication skills.

BEHAVIOURAL COMPETENCIES

- **Achieving Business Results - Analytical Thinking** is the ability to comprehend a situation by breaking it down into its components and identifying key or underlying complex issues. It implies the ability to systematically organize and compare the various aspects of a problem or situation, and determine cause-and-effect relationships ("if...then...") to resolve problems in a sound, decisive manner. Checks to ensure the validity or accuracy of all information.
- **Personal Effectiveness - Concern for Order** reflects an underlying drive to reduce uncertainty in the surrounding environment. It is expressed as monitoring and checking work or information, insisting on clarity of roles and functions, etc.
- **Interpersonal relationships - Teamwork and Co-operation** is the ability to work co-operatively within diverse teams, work groups and across the organization to achieve group and organizational goals. Service Orientation
- **Interpersonal relationships - Service Orientation** implies a desire to identify and serve customers/clients, who may include the public, co-workers, other branches/divisions, other ministries/agencies, other government organizations, and non-government organizations. It means focusing one's efforts on discovering and meeting the needs of the customer/client. Results Orientation

INDIGENOUS RELATIONS BEHAVIOURAL COMPETENCIES

- **Building a Trust-Based Relationship** requires a fundamental understanding that "relationship" is the foundation from which all activities happen and that building a good relationship takes time and commitment. It is a willingness to build a personal relationship in addition to a professional one, participating in open exchanges of experiences and culture. It requires a genuine, non-controlling approach and relies upon demonstrated integrity and transparency. Building a trust-based relationship requires a high level of consciousness of the experience of Indigenous people with Crown relations. It assumes that strengths abound in Indigenous people, cultures, and communities.

The above competencies complement the required accountabilities for this position. For more information about behavioural interviews, competency definitions, and to watch interview videos, please visit: [Competencies in the BC Public Service](#)