

**BENCHMARK POSITION DESCRIPTION – BM #14
MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES**

1. POSITION TITLE Geomatics Geoscientist	2. CLASSIFICATION LEVEL LSO 3
3. DIVISION Mining and Minerals	4. BRANCH British Columbia Geological Survey
5. IMMEDIATE SUPERVISOR Senior Geomatics Geoscientist	6. LOCATION Victoria

Program Function Describe the purpose of the program and organization in which the position operates.

The Branch is responsible for the inventory of the Province’s mineral, coal and aggregate reserves and resources and collection of new geoscience information to attract mineral industry investment. Key deliverables of the Branch are hard copy and digital publications and databases used by mining industry, government and public. Branch staff provide geosciences expertise and data analysis to support government’s sustainable development objectives.

Purpose of Position and Summary of its Functions This may be used for POSTING purposes.

The position is responsible for system management and improvements and for spatial geo-science database integration. The position provides mineral potential assessments to support treaty negotiations, park development and other land use processes. The position also provides a variety of client services, and documentation, marketing and tracking support services and administration, budgeting and other related duties.

Organizational Structure and Working Environment

The British Columbia Geological Survey is one of four Branches in the Mining and Minerals Division. The Geomatics Geoscientist, reporting to the Senior Geomatics Geoscientist, is one of 8 positions in the Resource Information Section which acts as the custodian for the Province’s geoscience data. The position develops and maintains productive working relationships with: industry clients; external geological and mining organizations; government clients (e.g., managers and advisors in the Aboriginal Relations and Land Use Branches); branch managers and staff; government land information specialists (Integrated Land Management Bureau, Information Management Branch, Regional Operations Branch); and other specialists who collaborate on projects; integrate data and data systems; and analyze spatial geoscience data related to geology, geochemistry, geophysics, remote sensing, mineral deposits, environmental impacts and other types of information.

Position’s Specific Functions and How They Are Performed

- 1. 15% Provides systems management and improvements by:**
 - Providing leadership and guidance in the development and implementation of plans for the enhancement and integration of new technology in support of systems development
 - Conducting periodic reviews and evaluations of the systems
 - Developing concepts for computer programs designed to translate digital map information
 - Constructing and maintaining databases, digital graphic files and Web servers
 - Integrating datasets into the system
 - Working with data providers to enhance delivery of their data to the system
 - Conducting reviews and evaluations of Branch programs to identify potential improvements to the system
 - Working as a team member on multi-disciplinary and integrated Branch or Ministry projects (e.g. establish project charters, identify resource requirements, delegate tasks, monitor performance, initiate remedial action and ensure results are achieved within timelines)

BENCHMARK POSITION DESCRIPTION – BM #14
MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES

- 2. 30% Provides spatial geoscience database integration services by:**
 - Providing leadership and expertise in data management, GIS, spatial and statistical analysis techniques
 - Developing, testing and interpreting data models and data standards
 - Developing data management plans and managing metadata for geoscience data
 - Collaborating with other branches, and provincial/federal ministries and agencies to integrate spatial and attribute databases
 - Developing and implementing policies and procedures to ensure the effective management and integrity of data
 - Conducting studies of geoscience data and creating data models to discover new spatial and thematic relationships between geoscience data elements
 - Managing the administration of geoscience data sets
 - Developing various geoscience applications
 - Creating thematic maps
 - Publishing project results in reports, on maps and in digital databases
 - Conducting remote sensing analytical studies
 - Managing the evaluation, selection and implementation of tools, software, applications and systems
 - Working with project teams to develop strategies to stimulate industry mineral exploration activity through the dissemination of mineral potential/occurrence information

- 3. 20% Provides mineral potential assessments to support Treaty negotiations, park development and other land use processes by:**
 - Conducting mineral resource assessment evaluations
 - Providing expert advice on the mineral potential of specific areas of the Province
 - Creating analytical reports and/or briefing materials
 - Preparing or contributing to the preparation and/or delivery of formal presentations
 - Acting as Branch spokesperson to provide expert advice, interpretations and recommendations regarding mineral potential and the possible impacts of land use decisions
 - Providing electronic data files of mineral potential information to industry
 - Contributing to the development and maintenance of provincial standards for the digital capture and storage of digital map information

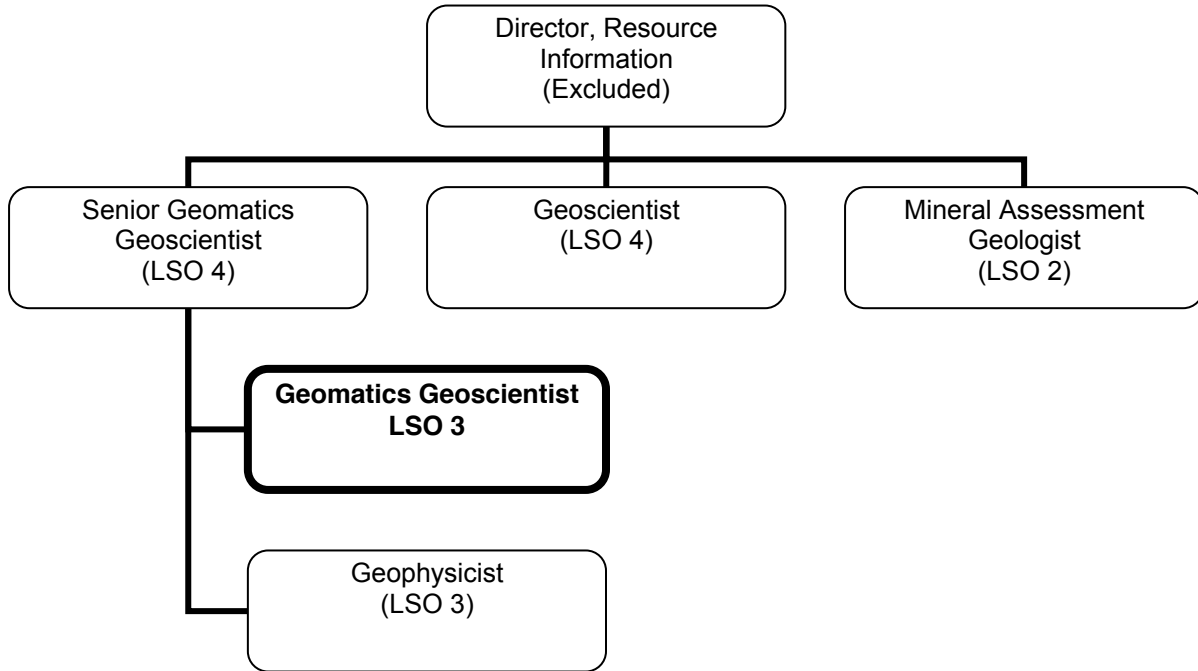
- 4. 15% Provides client services, documentation, marketing and tracking services by:**
 - Developing and delivering a variety of products to assist a diverse client base
 - Acting as a provincial authority on digital access to spatial data
 - Leading staff who create and maintain a website with documentation, tutorials, links, product and service descriptions, help desk, and data theme descriptions
 - Ensuring section applications and systems are documented
 - Promoting and marketing the Ministry's central/main database (MapPlace) and other systems to the exploration, research and scientific communities
 - Conducting computer workshops, talks, poster sessions and demonstrations on the use of the systems
 - Demonstrating to industry, academia and the public how government databases can be accessed and used to assist in exploration, land management and general efficiencies
 - Developing new and innovative ways for clients to access geoscience information
 - Representing the Ministry at conferences and at meetings with industry
 - Explaining and interpreting mineral occurrence findings

BENCHMARK POSITION DESCRIPTION – BM #14
MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES

- 5. 15% Provides administration and budgeting services by:**
- Managing procurement processes for vendors and contractors (e.g., negotiate contract terms, use standardized contracts, define deliverables and timelines and sign-off on completion)
 - Managing the process to hire co-op students for the Resource Information Section
 - Providing guidance, monitoring and/or oversight to the work of junior professional employees as part of the Branch's succession planning program
 - Creating project plans, budgets and progress reports
- 6. 5% Performs other related duties**

**BENCHMARK POSITION DESCRIPTION – BM #14
MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES**

ORGANIZATION CHART – GEOMATICS GEOSCIENTIST



**BENCHMARK CLASSIFICATION RATIONALE – BM #14
MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES**

TITLE: Geomatics Geoscientist

LEVEL: LSO 3

DIVISION/BRANCH: Mining and Minerals/BC Geological Survey

FACTOR	POINTS
<p><u>PURPOSE OF POSITION</u> The primary focus of this position is the responsibility for system management and improvements, and for spatial geo-science database integration. The position provides mineral potential assessments to support treaty negotiations, park development and other land use processes and provides a variety of client services.</p> <p><u>KNOWLEDGE</u> The work requires a fairly broad knowledge of Geology with some depth in spatial and statistical analysis techniques and an emphasis in minerals assessment to develop and implement plans for the enhancement and integration of new technology in support of systems development. This work and the requirement to develop concepts for computer programs designed to translate digital map information is analytical and interpretive work which requires the position to make some judgements based on considerable experience in Geographical Information Systems.</p> <p>Requires registration as a Professional Geoscientist.</p>	D(2) 113
<p><u>JUDGEMENT</u> <u>Originality and Complexity:</u> The position makes major adaptations to previously developed GIS spatial and statistical analysis solutions and analyzes and interprets a variety of complex data in the development, testing and interpreting of data models and data standards and the development of data management plans.</p> <p><u>Technical Supervision Received:</u> The position's work output would be reviewed upon completion to ensure that it meets the operational needs of the program.</p>	C2 86
<p><u>ORGANIZATION AND PROGRAM ROLE</u> The position provides advice, recommendations and consultative services to Ministry staff, industry and licensed professional consultants.</p>	II(a) 43
<p><u>ADMINISTRATIVE SUPERVISORY RESPONSIBILITY</u> The position does not administratively supervise any staff.</p>	0

TOTAL POINTS 242

LEVEL	POINT RANGE
1	168 – 203
2	204 – 237
<u>3</u>	<u>238 – 267</u>
4	268 – 295
5	296 – 365