

JOB DESCRIPTION

Benchmark Job #351

Ministry: Transportation and Highways
Branch: Geotechnical
Location: Burnaby

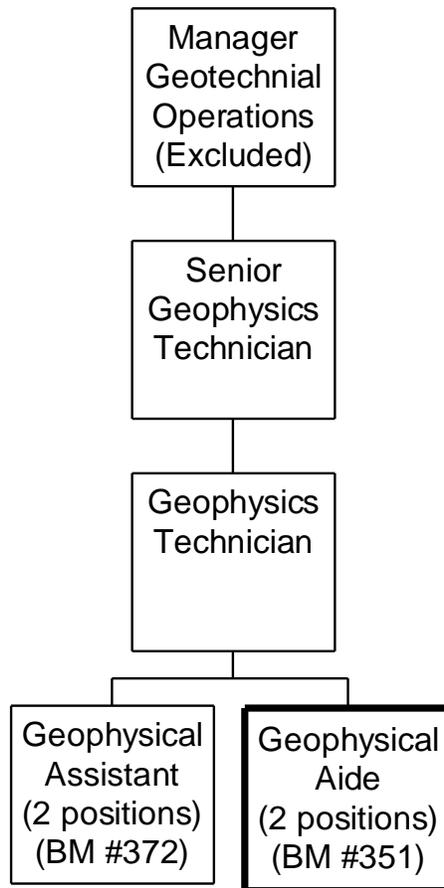
Working Title: **Geophysical Aide**
Level: Range 12
Classification: Engineering/Resource Aide

PRIMARY FUNCTION

To provide field and office support in engineering, geophysical and on-site testing for geotechnical examinations.

JOB DUTIES AND TASKS

1. Supports a Geophysical Assistant in completing field examinations for engineering, geophysical and insitu testing
 - a. collects data in electrical, electromagnetic, seismic, vibration monitoring, and other field surveys through assisting in the operation of testing instrumentation
 - b. collects data to be used in the assessment of engineering properties of soils and rock as required in geotechnical studies
 - c. assists in the handling and detonating of explosive charges (blaster's certificate is held by technician)
 - d. maintains complete and accurate records
 - e. uses hand and power tools, compass, hip chain, occasionally transit, and other equipment
 - f. performs routine testing and repair of scientific instrumentation and equipment (e.g. soldering wires on battery powered seismic recorder)
 - g. provides training to summer students who are under the supervision of the Technician.
2. Supports the processing and assessing of geophysical and on-site testing data involving compilation of results
 - a. processes data on computers using commercially prepared programs including inputting data, title, scale and contours
 - b. performs calculations related to basic drafting and surveying
 - c. prepares preliminary assessments of results for routine examinations
 - d. performs elementary drafting functions by hand and computers which are subject to review
3. Performs other related duties
 - a. drives to field sites to repair testing equipment
 - b. performs functions such as slashing survey lines, flagging, etc.
 - c. requests consumable supplies for use in the field



REASON FOR CLASSIFICATION

Benchmark Job #351

Job Title: Geophysical Aide

FACTOR NO.	REASON FOR CLASSIFICATION	DEGREE	CLASS. POINTS
1	JOB KNOWLEDGE Understand and apply the accepted methods of geophysical testing and the operation of testing equipment to collect and assess data.	E	145
2	MENTAL DEMANDS Judgement to recognize known differences and determine the priority of tasks to collect a variety of geotechnical data and compile the results.	C	60
3	INTERPERSONAL COMMUNICATIONS SKILL Discretion required to exchange information needing explanation to direct summer students in the completion of tasks.	C	30
4	PHYSICAL COORDINATION AND DEXTERITY Significant coordination and dexterity is required to test and repair scientific instrumentation.	D	22.5
5	RESPONSIBILITY FOR WORK ASSIGNMENTS Guided by specific procedures, selects a course of action to complete assignments using past practice to conduct routine geophysical and on-site tests and process data on standard software programs.	C	50
6	RESPONSIBILITY FOR FINANCIAL RESOURCES Responsibility for financial resources to request consumable supplies for use in the field.	A	5
7	RESPONSIBILITY FOR PHYSICAL ASSETS/INFORMATION Moderate responsibility to use light vehicles to drive to field sites.	C	15

REASON FOR CLASSIFICATION

Benchmark Job #351

Job Title: Geophysical Aide

FACTOR NO.	REASON FOR CLASSIFICATION	DEGREE	CLASS. POINTS
8	RESPONSIBILITY FOR HUMAN RESOURCES Responsibility to provide formal training to summer students.	B	9
9	RESPONSIBILITY FOR WELL BEING/SAFETY OF OTHERS Moderate care and attention to operate a vehicle as a designated driver to attend work sites.	C	15
10	SENSORY EFFORT/MULTIPLE DEMANDS Focussed sensory concentration to frequently visually focus on a computer screen when compiling and interpreting test data.	C	12
11	PHYSICAL EFFORT Heavy physical effort is required to frequently hike and climb while carrying testing equipment.	E	24
12	SURROUNDINGS Exposure to the elements and weather with no available shelter regularly when conducting field tests.	D	9
13	HAZARDS Significant exposure to hazards from frequently performing work on field trips in remote areas and from occasionally handling explosives.	D	9

Total Points: 405.5

Level: Range 12