

Ministry: Health	Working Title: Scientist, Research and Development
Branch: BC Centre for Disease Control	Level: Range 24
Location: Vancouver	Classification: Laboratory Health Science Officer

PRIMARY FUNCTION

To plan, conduct and report on the results of laboratory projects, and develop testing methods for infectious organisms.

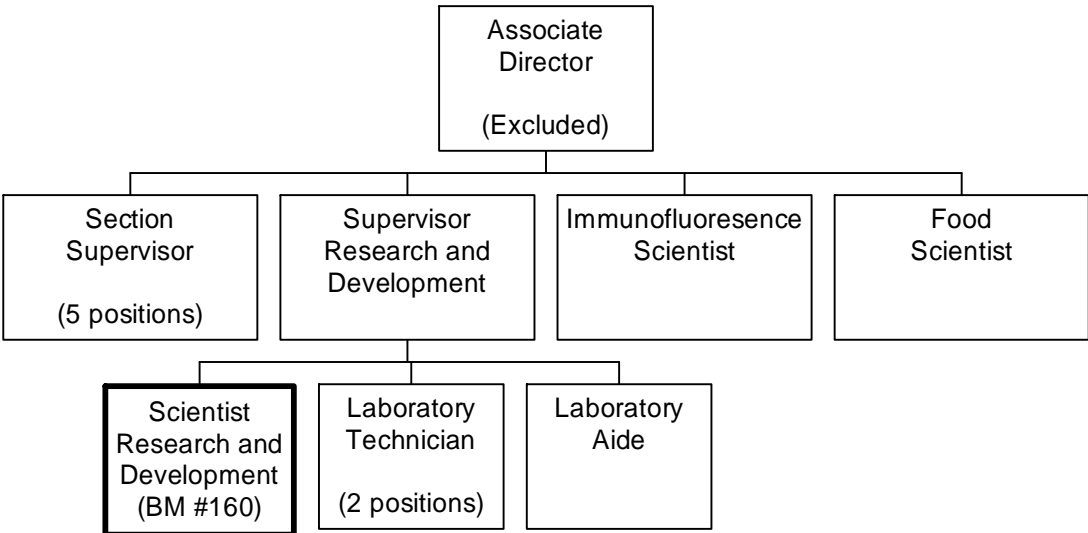
JOB DUTIES AND TASKS

1. Develops testing methods for viruses, bacteria and/or protozoa
 - a. identifies, gathers, compiles and assesses information from scientific papers relevant to projects, tests and experiments
 - b. plans projects and experiments in consultation with Supervisor
 - c. conducts experiments to develop methods for testing samples and detecting infectious organisms
 - d. recommends and updates testing methods and procedures in reaction to developments in molecular diagnostics
 - e. conducts experiments to classify organisms including determining whether two infections are from the same source
 - f. detects and analyzes DNA and RNA information by conducting experiments on blood, spinal fluid and other fluids
 - g. maintains laboratory records, compiles data from experiments onto computer database and prepares reports on test results and methodologies
 - h. sends test results to doctors as required
 - i. controls sensitive laboratory processes in the development of methods to test and detect infectious organisms

2. Provides training and scientific and technical advice to other staff, doctors and external clients
 - a. provides training to technicians and graduate students on testing samples and lab procedures and methods
 - b. provides instruction on molecular biology techniques to visiting interns, doctors and other external clients
 - c. participates in planning projects including developing methods for testing samples, calculating amounts of chemicals for media and chemical solutions and testing prepared media and solutions
 - d. provides advice on how to solve problems, search for information and on use of laboratory methods
 - e. prepare and present teleconferences on technical subjects

3. Performs other related duties
 - a. orders laboratory supplies and chemicals etc. and signs for goods received
 - b. operates laboratory equipment such as centrifuges, polymerase chain reaction (PCR) machines, balances, rotary evaporator, and audio-visual equipment, microscopes
 - c. maintains clean work areas
 - d. maintains and updates laboratory procedural manual
 - e. performs routine analysis of specimens and releases test results
 - f. arranges purchases and validates receipt of external orders; arranges price of reagents

ORGANIZATION CHART
Benchmark Job #160



REASON FOR CLASSIFICATION

Benchmark Job #160

Job Title: Scientist, Research and Development

FACTOR NO.	REASON FOR CLASSIFICATION	DEGREE	CLASS. POINTS
1	<p>JOB KNOWLEDGE Understand the theory of molecular biology to plan and conduct research projects, and experiments to develop new clinical laboratory testing methods, and teach diagnostic techniques.</p>	H	280
2	<p>MENTAL DEMANDS Judgement to modify testing techniques and approaches to design sets of experiments to solve problems and conduct experiments to develop new clinical laboratory testing methods.</p>	G	200
3	<p>INTERPERSONAL COMMUNICATION SKILLS Discretion required to exchange information needing an explanation of molecular biology laboratory techniques with interns and other external clients.</p>	C	30
4	<p>PHYSICAL COORDINATION AND DEXTERITY Significant coordination and dexterity required to measure and weigh minute amounts of chemicals and reagents using pipetting devices and microbalance.</p>	D	22.5
5	<p>RESPONSIBILITY FOR WORK ASSIGNMENTS Guided by general scientific and diagnostic testing standards, plan and conduct sets of molecular biology experiments, research and develop new diagnostic methods, teach molecular biology techniques to staff and external clients.</p>	F	160
6	<p>RESPONSIBILITY FOR FINANCIAL RESOURCES Some financial responsibility to purchase material (e.g. reagents) and validate receipt of external orders.</p>	C	15
7	<p>RESPONSIBILITY FOR PHYSICAL ASSETS/INFORMATION Considerable responsibility to control sensitive laboratory processes in the development of methods to test samples and detect infectious organisms.</p>	E	33

REASON FOR CLASSIFICATION

Benchmark Job #160

Job Title: Scientist, Research and Development

FACTOR NO.	REASON FOR CLASSIFICATION	DEGREE	CLASS. POINTS
8	RESPONSIBILITY FOR HUMAN RESOURCES Responsibility to provide formal training to staff technicians on diagnostic techniques.	B	9
9	RESPONSIBILITY FOR WELL BEING/SAFETY OF OTHERS Significant care and attention to provide specimen analysis to aid doctors in diagnosis.	D	25
10	SENSORY EFFORT/MULTIPLE DEMANDS Attention to detail to frequently visually and by touch prepare and process specimens, process slides and record results when testing new methodologies.	C	12
11	PHYSICAL EFFORT Relatively heavy physical effort to regularly work in awkward positions such as leaning over microscopes and other laboratory equipment.	D	18
12	SURROUNDINGS Exposure to loud noise from laboratory equipment frequently.	C	6
13	HAZARDS Significant exposure to hazards from frequent working with or near infectious micro-organisms and toxic chemicals.	D	9

Total Points: 819.5

Level: Range 24