



UNION JOB DESCRIPTION

JD610

JOB TITLE:	Molecular Diagnostic Technologist	JOB DESCRIPTION NO.:	60385
CLASSIFICATION:	Medical Laboratory Technologist P2A	GRID/PAY LEVEL:	H-D-P2A
COLLECTIVE AGREEMENT:	Health Science Professionals	HSCIS NO.:	32802
UNION:	HSA	JOB/CLASS CODE:	32802
PROGRAM/DEPARTMENT:	Laboratory Medicine Molecular Diagnostics	BENCHMARKS (If Applicable):	
REPORTING TO:	Sub-Section Supervisor Molecular Diagnostics or designate		
FACILITY/SITE:	VIHA SI: VGH		

JOB SUMMARY:

In accordance with the Vision, Purpose, and Values, and strategic direction of Island Health (Vancouver Island Health Authority), patient and staff safety is a priority and a responsibility shared by everyone; as such, the requirement to continuously improve quality and safety is inherent in all aspects of this position.

Reports to the Sub-Section Supervisor Molecular Diagnostics or designate. In accordance with established policies, plans and procedures, this technologist performs special procedures/ techniques for the majority of the time, including established and/ or new clinical genetic or molecular procedures.

TYPICAL DUTIES AND RESPONSIBILITIES:

1. Performs clinical genetic and molecular procedures including; deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) extraction and quantitation from clinical specimens, all aspects of the polymerase chain reaction (PCR) and reverse transcriptase (RT)-PCR analysis, restriction enzyme digestion, gel electrophoresis, Southern transfers, labeling of DNA probes, hybridization and autoradiography according to established protocols.
2. Performs new clinical genetic and molecular procedures after they have been developed by senior staff.
3. Performs additional special procedures/ techniques such as DNA sequencing, single strand conformational polymorphism (SSCP) analysis, temperature gradient gel electrophoresis, pulse field gel electrophoresis (PFGE), heteroduplex analysis and real-time PCR as required.
4. Performs laboratory procedures by operation a variety of laboratory equipment, apparatus and instrumentation. Maintains equipment by following preventative maintenance protocols. Notifies the Sub-Section Supervisor of any malfunctions.
5. Prepares reagents, standards and quality control material to be used for test procedures.
6. Uses the laboratory computer for patient data entry, retrieval and preparing laboratory worksheets and reports. Enters daily workload statistics into the laboratory information system.
7. Independently analyses/interprets data and recognizes abnormal patterns in clinical genetic and molecular results, prepares and evaluates reports in preparation for issue.
8. Maintains standardization and quality control of test procedures and monitors test results. Reports unusual or questionable test results to the Sub-Section Supervisor and/or Lead Technologist, VGH Cluster.
9. Ensures that STAT and priority tests are assayed and reported promptly and in accordance with established protocols.

10. Monitors laboratory supplies and stocks up to adequate amounts.
11. Orientates new technologists, medical technology students and residents in the use of molecular techniques by demonstration and verbal instructions.
12. Develops, evaluates and implements new techniques with the guidance of senior technical staff and laboratory scientists.
13. Maintains current knowledge in the field of medical laboratory technology in order to recommend new applications and contribute improvement in technical activities of the area by performing duties such as attending courses and lectures as requested and approved.
14. Applies principles of universal precautions, biohazard, MSDS and laboratory safety to work environment. Participates in lab safety awareness projects and takes personal responsibility for workstation safety and ergonomics.
15. Identifies and reports situations related to safety. Operates and maintains laboratory equipment. Recognizes malfunctions in equipment and initiates corrective action.
16. Keeps the welfare and confidentiality of the patient paramount at all times by following departmental policies regarding confidentiality.
17. Performs other related duties as required.

QUALIFICATIONS:

Education, Training And Experience

Bachelor of Science degree in Biology or Molecular Genetics. Successful completion of recognized competency assessment exam and registration in the relevant field(s) of practice in accordance with the Canadian Alliance of Medical Laboratory Professionals Regulators (CAMLPR) pathways, or certification with the Canadian Society for Medical Laboratory Science (CSMLS). Two years recent related experience.

Skills And Abilities

- Knowledge of computer systems related to the Laboratory.
- Knowledge and technical competence to perform procedures using molecular techniques.
- Demonstrated ability to operate related equipment and to use related software.
- Demonstrated familiarity with Internet web sites specific to Molecular Biology.
- Ability to communicate effectively with others including staff, patients and medical staff.
- Demonstrated problem solving, organizational and decision-making skills.
- Physical ability to carry out the duties of the position.