

Classification Level P1 – Working Professional

Professional Grouping:

BIOMEDICAL TECHNOLOGY**Professions:** *Biomedical Engineering Technologist, Physics Assistant, Radiation Therapy Service Technologist, Radiology Service Technologist***Nature of Work:**

Jobs matched to this profile perform a wide range of skilled technical services in the installation, and maintenance of medical/diagnostic devices, equipment, instrumentation, and systems within professional scope of practice and established policies, procedures, and standards in a variety of healthcare environments (e.g. acute care, long term care, home and community health services, primary health care, etc.) and in individual and/or group settings. These jobs utilize technical and scientific knowledge and proficiency gained through required post-secondary qualifications for the referenced professions. This includes additional specific certifications required to perform the full scope of the job as described by the job description, and within professional scope of practice as determined by the relevant college, accrediting body, or professional association.

Illustrative Responsibilities:**Consistent with professional scope of practice perform some or all of the following:**

- Exercises independent judgment in decision making in the installation and maintenance of medical/diagnostic devices, equipment, instrumentation and ancillary systems related to patient care and treatment delivery.
- Performs work in accordance with established standards of practice, Employer policies, and work-related processes, procedures and guidelines, including patient safety and quality protocols.
- Tests, calibrates, maintains, troubleshoots, repairs and/or replaces components for a variety of equipment and ancillary systems; conducts scheduled safety and performance inspections, including setting up and operating equipment to test and analyze performance.
- Evaluates new equipment for technical acceptance; installs or monitors the installation of equipment; performs appropriate quality control and safety checks; prepares specifications, schedules and technical reports.
- Acts as a technical resource to clinical staff and trains them in equipment use; participates in identification of equipment needs and procurement; participates in incident investigation, hazard follow-up and quality assurance.
- Maintains established inventory of supplies, equipment, and devices and assists in the evaluation of new products; liaises with suppliers to determine availability and costs of systems/parts.
- Collaborates with multi-disciplinary care teams, practice leaders, patient/client, family and other stakeholders.
- Provides information on the use, maintenance and care of devices and equipment to patient/client.
- Participates in employer programs and initiatives such as research activities, quality improvement, team conferences, meetings, and the development of new policies, procedures and standards for care/program delivery. Contributes to discussions; reports back on decisions, outcomes and recommendations.
- Utilizes, maintains, and participates in the evaluation of work-related systems, tools, supplies, and equipment in the provision of care/treatment.
- Gathers, enters, reviews, and maintains patient/client information in health systems. Compiles/prepares reports.
- Provides orientation, guidance, and collegial information or demonstration of equipment or work methods and processes to others including peers, new staff, and students. Provides instruction and/or supervision to students; evaluates and provides feedback on student progress. Provides work direction to support staff.

Additional Profession Specific Details:*Biomedical Engineering Technologist:*

- Work primarily involves the installation, maintenance and repair of biomedical equipment and ancillary systems such as heart-lung perfusion equipment, electro-surgical units, medical laboratory equipment, physiological monitors, ventilators, incubators, infusion pumps, blood pressure machines, dialysis equipment and defibrillators.

Physics Assistant:

- Work primarily involves performing machine and patient specific quality assurance measurements for radiation emission and for treatment plan dose verification.

Radiation Therapy Service Technologist:

- Work primarily involves the installation, maintenance and repair of radiation therapy equipment and ancillary systems such as linear accelerators, cobalt units, low energy x-ray units, simulators, and remote after loading devices; dosimeters, electrometers and beam scanners.

Radiology Service Technologist:

- Work primarily involves the installation, maintenance and repair of medical imaging equipment and ancillary systems such as magnetic resonance imaging scanners, computed tomography scanners, angiography equipment and nuclear medicine scanners.