As a Medical Radiation Technologist (MRT) professional regulated by the Canadian Association of Medical Radiation Technologists (CAMRT), delivers quality care to research participants at SFU’s ImageTech facility. As a leader in their field, the MRT practices in accordance with the standards of professional practice, uses best practices and works closely with faculty to support the success of the research laboratory. The MRT performs special procedure examinations; ensures the care provided is safe; and maximizes the potential of the research equipment and resources.

1. Delivers quality care to research participants and contributes to the success of SFU’s ImageTech Laboratory facilities by:
   - Providing input and expertise on the development of Medical Radiation (MR) protocols for specific neurological research investigations
   - Practicing in accordance with the code of ethics, scope and standards of practice and regulatory requirements of a registered medical radiation technology (MRT) professional; and adhering to the laboratory facilities’ policies and procedures
   - Demonstrating professional behavior/conduct in all interactions
   - Assuring efficient operation of the department workflow, and monitoring and maintaining an adequate inventory of supplies and materials to ensure non-interruption of service
   - Fostering teamwork, efficient use of resources and quality research outcomes

2. Performs special procedure examinations in Medical Radiation Imaging (MRI) by:
   - Working in accordance with policy and procedures
   - Observing safe radiation protection practices

3. Operates the 3.0T Philips scanner by:
   - Receiving and completing requisitions
   - Processing and archiving acquired data
   - Monitoring participants during procedures
   - Monitoring equipment performance, including performing and evaluating equipment quality control measurements
   - Troubleshooting and notifying appropriate personnel to maintain equipment performance

4. Maintains a safe environment for patients, personnel, and visitors by:
   - Adhering to safety policies
   - Contributing expertise to the development and implementation of safety policies
   - Educating participants on general and specific MR procedures
   - Providing safety-related training and oversight to other ImageTech personnel

IMPACT OF DECISION MAKING
The MR Technologist is responsible for:
   - Exercising professional judgment
   - Assessing participants as it relates to the examination
   - Planning the examination to ensure optimal results; adapting protocols as necessary to accommodate participant status and condition, available equipment and the environment in which the procedure is taking place

Decisions impact research outcomes, and impact the safety of participants.
RELATIONSHIPS
Sets objectives necessary for obtaining feedback and assistance. Partners with wide circle of contacts and involves them in generating mutually beneficial opportunities and achieving agreeable outcomes. Shares ideas, issues, and opportunities with members of personal network. Seeks referrals from others with relevant expertise and influence. Attends and maintains relationships with relevant formal and informal professional groups and organizations.

Supervisory
In a “Lead” MR Technologist role, supervises the work of other MR Technologists, providing input and guidance as required.

Primary Working Relationships
Internal Connections – The MRT works closely with other healthcare professionals, researchers, staff, etc., at ImageTech, providing input and guidance. Works in consultation with the Lab Director, MR Program Lead, MR Safety Expert, and Lab Operations Manager. The MR Technologist interacts with other SFU departments and personnel (e.g., IT Services, Human Resources, etc.).

External Connections – Works with external suppliers to order materials or arrange equipment servicing. Interacts with representatives or personnel from Fraser Health or Surrey Memorial Hospital.

QUALIFICATIONS
Current Registration in Magnetic Resonance with CAMRT and three years of related experience including experience performing MRI procedures.

Excellent knowledge of MRI and CT techniques and the use of applicable equipment and supplies.
Excellent knowledge of the standards of practice and guidelines for Medical Imaging practitioners established by the CAMRT and/or other relevant national professional associations.
Excellent knowledge and practice of safe work procedures with radiology and scanning equipment.
Good knowledge of current MRI and CT scan theory and practices.
Good knowledge of research process and methodology.
Good knowledge of radiology information systems (i.e., digital imaging, image archiving and retrieval).
Excellent interpersonal and communication (verbal and written) skills.
Excellent supervisory skills and ability to manage clinical imaging staff and/or other professionals.
Ability to analyze and interpret data, determine implications, and provide recommendations.
Ability to recognize potentially dangerous situations and take appropriate action.
Ability to exercise sound judgment, and exercise tact and discretion.
Ability to develop procedure protocols and manuals.
Ability to work effectively with research participants, faculty, and staff, including staff in external agencies.
Ability to deal with and/or guide others in the resolution of conflict issues.
Ability to work independently and in collaboration with others.
Ability to plan and establish workload priorities in collaboration with others.
Demonstrated ability in CPR techniques.
Proficiency in the use of computer applications.

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