

DIAGNOSTIC IMAGING SERVICES

Diagnostic Imaging lets a medical professional look inside a patient's body for clues about a medical condition. Technologists and Sonographers use a variety of machines and techniques to provide a full range of medical imaging in such areas as X-ray, ultra sound, MRI, nuclear medicine, and mammography.

MEDICAL RADIATION
TECHNOLOGIST
MEDICAL SONOGRAPHER

medical radiation technologist

There are four disciplines of medical radiation technologists—Radiological Technologist; Radiation Therapist; Nuclear Medicine Technologist; and Magnetic Resonance Technologist.

- Radiological technologists perform—a variety of imaging procedures, including X-ray, fluoroscopy, CT scanning, interventional radiography, mammography and operating room studies.
- Nuclear medicine technologists perform imaging and therapeutic procedures using radiopharmaceuticals to evaluate the structure and function of most organ systems in the body.
- Magnetic Resonance Technologist use radio waves

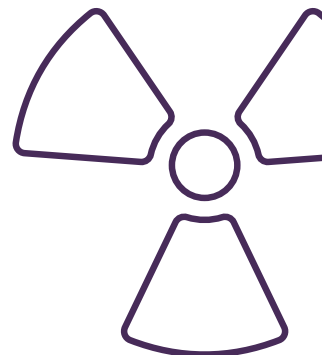
and magnetic fields to generate images of tissues and organ systems to diagnose illnesses.

- A radiation therapist uses x-ray beam to locate and treat cancer according to the plan prescribed by a radiologist and oncologist.

While all four disciplines are distinct all MRTs are highly skilled professionals that impact the diagnosis and treatment of patients. MRTs are responsible for the ongoing care and assessment of patients thought out their exam and work closely with radiologists or oncologist to ensure optimal patient outcomes. MRTs also work in management, PACS administration and as educators.

Approximate salary:
\$30.00 – \$40.00 per hour

Academic requirements:



Completion of grade 12 with at least five (5) grade 12 university preparatory courses, including: English, Math, and 2 Sciences. For radiological technology – Physics and Chemistry or Biology. For nuclear medicine Physics and Chemistry. No grade lower than 70% in the 5 courses and overall minimum average of 75%.

A Bachelor of Health Sciences (BHSc) in Radiological Technology or Nuclear Medicine Technology.

Magnetic resonance imaging is a certificate program at Dalhousie University that can be taken as part of a BHSc.

Upon successful completion of the education requirements, one must write the Canadian Association

of Medical Radiation Technologists national exam and be certified by the association. Upon successful completion of the exam, one must apply to the Nova Scotia Association of Medical Radiation Technologists for professional registration as a medical radiation technologist.

Educational institute(s) in Nova Scotia offering a program:

- Dalhousie University for radiological technology, nuclear medicine and magnetic resonance imaging.
- Currently no radiation therapy program is offered in Nova Scotia.

medical sonographer

A diagnostic medical sonographer is a highly-skilled professional who uses specialized equipment to create images of structures inside the human body that are used by physicians to make a medical diagnosis. Sonographers have extensive, direct patient contact that may include performing some invasive procedures. They must be able to interact compassionately and effectively with people who range from healthy to critically ill. Sonographers also work in management, PACS administration and as educators.

Approximate salary:

\$30.00 – \$40.00 per hour

Academic requirements:

- Completion of grade 12 with at least five (5) grade 12 academic courses, including: English, Math, Physics,

Biology and one other academic subject. No grade lower than 70% in the 5 courses and overall minimum average of 75%.

- Students have the option of a three year diploma or a four year Bachelor of Health Science in Diagnostic Medical Sonography.
- Upon successful completion of the education requirements, one must write the Core Sonographer Examination and the Generalist Sonographer Examination offered through the Canadian Society of Diagnostic Medical Sonographers.
- Currently, this profession is not regulated in Nova Scotia but require sonographers to be registered with Sonography Canada. Medical Sonographers in Nova Scotia should consider membership with the Nova Scotia Society of Diagnostic Medical Sonographers.

Educational institute(s) in Nova Scotia offering a program:

- Dalhousie University

