

# RADIOLOGY TECHNOLOGY

## **NATURE OF THE WORK**

Radiology Technologists are health care professionals who utilize radiation to produce images of patient's anatomical structures. The quality of the image is critical as it will assist the physician in the diagnosis or treatment of the disease or injury.

The Radiology Technologist is knowledgeable and skilled in a wide variety of procedures as all body systems are imaged. Responsibilities include (but are not limited to) positioning the patient for radiological procedures, care of the patient, appropriate choice and use of equipment, image manipulation, selection of radiation exposure factors, implementation of radiation protection techniques and critique of the radiograph. Whatever the procedure, the technologist must be adaptable to meet the challenges presented by the patient's physical or psychological state.

## **HIGH SCHOOL PREREQUISITIES**

- Students will have completed a minimum of five university preparatory grade XII level courses with an overall average of 75 percent or higher and no individual grade below 70 percent.
- Grade XII academic English, Mathematics, Physics and Biology or Chemistry with a grade level of 70 percent or higher, grade XI academic mathematics, physics and biology are required together with at least one grade XII courses from the following: biology, chemistry, global geography, global history, mathematics, modern languages and physics.
- The remaining two grade XII subjects may be taken from the above or from other university preparatory subjects approved by the provincial department of education and acceptable to the University/College where the program of study is offered. Those courses include: accounting, computer-related
- studies, economics, geography, geology, law, modern world problems, home economics (human ecology), music, political science and sociology.

## **OTHER PREREQUISITES**

- Applicants must have a satisfactory score on the Allied Health Aptitude Test.

## **REQUIREMENTS**

Radiology Technologists need to complete a four year degree program in Radiology Technology and a period of supervised relevant work experience.

To be a certified technologist you must successfully complete the Canadian Society of Medical Radiation Technologist national exam. To practice in Nova Scotia, radiology technologists must also be registered with the Nova Scotia Association of Medical Radiation Technologists.

## WHERE THE PROGRAM IS OFFERED

Dalhousie University in partnership with Queen Elizabeth II Health Sciences Education offers a four-year Bachelor's degree program in Health Science in Radiological Technology.

### Contact Information

QEII/Dalhousie School of Health Sciences  
Office 640, Bethune Building  
1278 Tower Road  
Halifax, NS B3H 2Y9

Telephone: 902-473-3769

Email: [health.sciences@dal.ca](mailto:health.sciences@dal.ca) [www.dal.ca](http://www.dal.ca)

### CAREER ADVANCEMENT OPPORTUNITIES

Once you have achieved the credential for a registered radiology technologist, with additional training and education you can enrich your career to become a:

**CAT Scan Technician:** The CT Tech uses a computerized axial tomography scan which is an x-ray procedure which combines many x-ray images with the aid of a computer to generate cross-sectional views and if needed, three-dimensional images of the internal organs and structures of the body. A CAT scan is used to define normal and abnormal structures in the body and/or assist in procedures for helping to accurately guide the placement of instruments or treatments. A large donut-shaped x-ray machine takes x-ray images at many different angles around the body. These images are processed by a computer to produce cross-sectional pictures of the body. In each of these pictures the body is seen as an x-ray "slice" of the body, which is recorded on a film. This recorded image is called a tomogram.

**Magnetic Resonance Imaging (MRI) Technologist:** MRI Techs use magnetism radio waves and computers to acquire medical images. MRIs are used for studying the cardiovascular system, detecting tumors, especially in the brain and spinal column, studying body chemistry and functions and imaging soft tissues such as, muscles, tendons or arteries.

### EARNING POTENTIAL

Radiology Tech/CT Tech Salary Scale – 2008  
\$44,632 - \$54,341

### ADDITIONAL INFORMATION

The Canadian Association of Medical Radiation Technologists (CAMRT), which is the national certifying body, in 1995 voted in favour of a degree program becoming the minimum criteria for certification effective January 2005. In order to be eligible to write the registry exam after that date, a student will require an undergraduate degree.

## **GENERAL**

This work demands skill with your hands, accuracy and close attention to detail. You should be efficient yet sensitive to patients' needs. Integrity and a strong sense of responsibility are important, as your results may affect a diagnosis. You must also be comfortable working with technology and be able to keep up with new advances in the field.

*For additional information please visit [www.camrt.ca](http://www.camrt.ca)*