

# MEDICAL RADIATION TECHNOLOGY (MRPG)

## Ontario College Advanced Diploma | 7 semesters | Barrydowne

Medical radiation technologists (MRT) are health care professionals who provide patient-centered care in an inter-professional environment. Using problem-solving and critical thinking skills, MRTs acquire quality radiographic and CT images to assist in the diagnosis of trauma and disease processes.

As a student in this program, you will gain the knowledge, skills, and ability to support medical teams by providing diagnostic-quality images with excellent patient care expertise. You will develop the core professional competencies required of an entry-to-practice MRT during a full calendar year placement at one of our affiliated hospital partners.

This is a physically and mentally demanding profession and will require you to be in good physical health and have the ability to lift heavy patients, stand for long periods of time, and have strong visual and hearing acuity.

Upon completion of the clinical portion of the program, you will be eligible to write the Canadian Association of Medical Radiation Technologists' certification exam to be eligible to work in Ontario and throughout the country.

### Program Highlights

- 3 years – 7 semesters
- 3 consecutive semesters training at an affiliated clinical site
- Graduates are eligible to write the Canadian Association of Medical Radiation Technologists (CAMRT) certification examinations to become registered to practice

### Fieldwork/Placement

You must participate in a clinical experience during the final 3 semesters of the program, where you will work and study in an inter-professional environment to provide safe patient-centered care while maintaining Medical Radiation Technology standards of practice.

Clinical experience is gained at a variety of affiliate hospitals throughout Ontario. During your clinical rotations, you may be exposed to disturbing situations when dealing with trauma, operating room, and general hospital patient situations.

You must be financially prepared to relocate and support yourself away from Sudbury for the clinical training semesters. Students will be assigned a principle clinical site and they may have short-term rotations at additional clinical sites arranged at the discretion of the clinical partners' clinical coordinator.

To graduate from the Medical Radiation Technology program at Cambrian College, you must demonstrate the skills, knowledge, and judgment determined by the competency profile of the Canadian Association of Medical Radiation Technologists (CAMRT). These competencies must be demonstrated within the time frame of the clinical portion of the program.

### Limited Enrolment

Please note that possession of the requirements does not guarantee admission. If the number of qualified applicants exceeds the number of

places available in the program, the College reserves the right to select from among those applicants. All students applying by February 1 will be given equal consideration. Preference will be given to Ontario residents. Please see the Limited Enrolment F.A.Q.'s on our website under "How to Apply (<http://cambriancollege.ca/apply>)" for further details.

### Quick Links

How to Apply (<http://cambriancollege.ca/apply>)

Health Sciences, Nursing, and Emergency Services (<http://cambriancollege.ca/field-of-study/health-sciences-nursing-emergency-services>)

### Admission Requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C), (U), or (M)
- Any grade 12 mathematics (C), (U), or (M)
- Any grade 12 science or biology (U), or chemistry (C) or (U), or introductory kinesiology (U)
- Any grade 12 physics (C) or (U)

Please note: A minimum of 75% is required in each prerequisite course

Recommended:

- computer competency in relevant software

Note: Cambrian College's Pre-Health Sciences Pathway to Advanced Diplomas and Degrees (PHPG) program is the preferred preparatory program for admission to Cambrian College's limited enrolment Health Sciences programs. Applicants from other Ontario colleges must be graduates of a Pre-Health Sciences Pathway to Advanced Diplomas and Degrees. Limited enrolment programs are identified within the detailed program descriptions. The minimum GPA and grades required for successful admission will be determined by the quality and quantity of the applicant pool.

### Additional Requirements

#### Medical

- Immunization as necessary according to the Ontario Hospitals Act
- Measles, Mumps and Rubella (MMR) - 2 doses or blood test evidence of immunity
- Varicella - blood test evidence of immunity
- Tuberculosis (TB) Screening - documented proof of a Two-Step TB Mantoux skin test
- Tetanus/Diphtheria (Td) - initial primary series completed with booster or 3 doses
- Pertussis - an Adacel or equivalent vaccine after the age of 18
- Polio - proof of completed initial primary series or 3 doses
- Hepatitis B - blood test evidence of immunity
- Influenza - annual vaccine required, when available

#### Non Medical

- HealthCare Providers (HCP) Level Cardiac Life Support Certificate
- WHMIS certificate
- Respiratory Mask Fit testing
- Criminal record check with vulnerable sector screening

- AODA certificate
- Health and Safety Awareness Training
- Students should arrive with a mobile computing device (laptop or tablet) for image viewing

**Note:** Cambrian College has partnered with ParaMed's Requisite Program to ensure all field/clinical placement requirements are met.

Evidence of both medical and non medical requirements must be provided to ParaMed's Requisite Program in semester 4 of the program.

## Additional Information

Upon successful completion of the program, the graduate must write the CAMRT (Canadian Association of Medical Radiation Technologists) certification examination to become registered. In Ontario, the College of Medical Radiation Technologists of Ontario recognizes and accepts the CAMRT certification exam for registration purposes. Graduates must register with the College of Medical Radiation Technologists of Ontario to be eligible for employment in Ontario. The cost for the examination/registration process is the responsibility of the graduate and will be required in the final semester of the program.

**APPLY NOW!** (<http://www.ontariocolleges.ca/apply>)

## Program Delivery

### 2019-2020

This program will be delivered in the following terms:

#### Fall Term Start

1. SEMESTER 1 Fall 2019
2. SEMESTER 2 Winter 2020
3. SEMESTER 3 Fall 2020
4. SEMESTER 4 Winter 2021
5. SEMESTER 5 Spring 2021
6. SEMESTER 6 Fall 2021
7. SEMESTER 7 Winter 2022

For specific term start/end dates and other key dates/deadlines, please see the Academic Schedule (<http://cambriancollege.ca/apply/how-to-apply/academic-schedule>) on our website.

## Program of Study

Semester 1		Credits
BIO 1005	Radiographic Skeletal Anatomy	2
BIO 1025	Medical Imaging Anatomy and Physiology I	3
ENG 1121	Research & Writing/Health Sciences	3
MRT 1000	Radiation Sciences	5
MRT 1100	Medical Radiation Lab Practice I	2
MRT 1120	Imaging Principles and Concepts I	3
MRT 1144	Radiographic Procedures I	6
	Credits	24
<b>Semester 2</b>		
MRT 1200	Medical Radiation Lab Practice II	2
BIO 1026	Medical Imaging Anatomy and Physiology II	3
MRT 1005	Digital Imaging and PACS	3
MRT 1241	Intro to Health Research	3

MRT 1244	Radiographic Procedures II	5
MRT 2340	Health Legis. & Professional Pract	3
The following General Education course:		3
FIT 1115	Health & Wellness	
	Credits	22

#### Semester 3

MRT 1150	Patient Management I	2
MRT 1201	Radiographic Pathology I	3
MRT 1210	Dedicated Radiographic Equip	3
MRT 2300	Medical Radiation Lab Practice III	2
MRT 2320	Quality Assurance and Control in Diagnostic Imaging	3
MRT 2344	Radiographic Procedures III	5
MRT 2360	Radiation Health & Safety	3
One of the following General Education courses:		3
GER 1200	Introduction To Gerontology	
MUS 1009	Rock Music, Culture & Technology	
	Credits	24

#### Semester 4

BIO 1006	Cross Sectional Anatomy	3
HEA 1022	Canadian Health Care	3
MRT 1004	Clinical Preparation	4
MRT 1202	Radiographic Pathology II	3
MRT 2310	Computed Tomography Princ/Pro	3
MRT 2350	Patient Management	4
One of the following General Education courses:		3
PSY 1125	Positive Psychology	
SOC 1205	Social Issues/Social Welfare in CA	
	Credits	23

#### Semester 5

MRT 1001	Clinical Practicum I	26
	Credits	26

#### Semester 6

MRT 1002	Clinical Practicum II	26
MRT 3520	Theory Review Test	1
	Credits	27

#### Semester 7

MRT 1003	Clinical Practicum III	26
MRT 3620	Comprehensive Exam	1
	Credits	27
	Total Credits	173

## Fees

### Tuition and Ancillary Fees

Please see our fees page (<http://cambriancollege.ca/fees>) for the breakdown of tuition and mandatory ancillary fees by program and semester for both domestic and international students

### Books & Supplies

The cost of books and supplies for Year 1 is approximately \$2,600. This is the best information available at the time of publishing to the website and is subject to change.

Note: Students are encouraged to obtain a portable computed device-laptop or tablet for classes.

## **Graduate Options**

### **Employment Opportunities**

Graduates may find employment as a medical radiation technologist in diagnostic imaging departments in hospitals and independent health facilities.

### **Furthering Your Studies**

Students successfully completing the Medical Radiation Technology program may be eligible to further their studies in Cambrian's one-year Magnetic Resonance Imaging (MRI) – Graduate Certificate program. There are also post-graduate certificate program opportunities in multiple imaging modalities available to graduates of this program.

### **College/University Degree Opportunities**

Graduates from this program may continue their studies at college/university and may receive credit for their prior College education.

Articulation agreements exist with:

- Laurentian University: Honours Bachelor of Biomedical Physics and Honours Bachelor of Biomedical Biology
- Memorial University of Newfoundland: Bachelor of Technology(Health Sciences option)
- Thompson River University: Bachelor of General Studies, Bachelor of Health Sciences

Refer to College/University Agreements (<http://www.cambriancollege.ca/agreements>) for further information.

## **Contacts**

### **Brenda Cliff**

Program Coordinator

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