

MEDICAL RADIATION TECHNOLOGY (MRPG)

Ontario College Advanced Diploma | 7 semesters | Barrydowne Campus

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 computed tomography (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 sites.

This is a physically and mentally demanding profession and will require you to be in good physical health. You must have the ability to assist patients with transfer when required, move portable imaging equipment, stand for long periods of time, and have strong visual and hearing acuity.

Program Highlights

- 3 years – 7 semesters
- 3 consecutive semesters training at an affiliated hospital 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 training experience in semesters 5, 6, and 7 of the program. During clinical placement semesters, placement hours continue through Study Week uninterrupted. In the hospital environment, you may be exposed to disturbing situations when dealing with trauma, operating room procedures, or other challenging patient conditions.

Placement locations are determined prior to clinical courses through a site selection process. Please note that the College has affiliated sites across Canada and the location of your placement may be different from your preference. All related clinical placement expenses such as travel, parking, and accommodation are the responsibility of the student.

Prior to the start of clinical training, all hospital sites require documentation of vaccinations, and/or immunity, and other non-medical requirements. **Placement sites for this program require proof of immunization and booster shots for COVID-19.**

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.

Registration to Practice

Graduates of the program are eligible to write the national certification examination established by the Canadian Association of Medical Radiation Technology (CAMRT).

The College of Medical Radiation and Imaging Technologists of Ontario (CMRITO) is the regulatory body for radiological technologists in Ontario. Successful attainment of licensure also qualifies graduates to register with the CMRITO, which is a requirement to practice in Ontario.

Accreditation

The Medical Radiation Technology program's six-year accreditation status is honoured by Accreditation Canada.

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) or (U)
- Any grade 12 mathematics (C), (U), or (M)
- Any grade 12 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's Pre-Health Sciences Pathway to Advanced Diplomas and Degrees (PHPG) program can also provide you with the necessary requirements for application to limited enrolment health programs. The minimum grades required for successful admission will be determined by the quality and quantity of the applicant pool. Limited enrolment programs are identified within the detailed program descriptions.

Additional Requirements

- Immunizations - measles, mumps, rubella, varicella (or blood test evidence of immunity), polio, hepatitis B, tetanus/diphtheria, influenza (annual vaccine, when available), pertussis (received after the age of 18), COVID-19 vaccination
- Tuberculosis (TB) Screening
- HealthCare Providers (HCP) Level Cardiac Life Support Certificate
- WHMIS certificate
- Respiratory Mask Fit testing (for N-95 mask)
- 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 prior to the start of year 3.

Additional Information

Upon successful completion of the program, the graduate must write the CAMRT (Canadian Association of Medical Radiation Technologists) certification examination to become licensed. In Ontario, the College of Medical Radiation and Imaging Technologists of Ontario (CMRITO) recognizes and accepts the CAMRT certification exam for registration purposes. Graduates must register with the CMRITO 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! (<https://www.ontariocolleges.ca/en/apply-now/>)

Program Delivery

2023-2024

This program will be delivered in the following terms:

Fall Term Start

1. **SEMESTER 1** Fall 2023
2. **SEMESTER 2** Winter 2024
3. **SEMESTER 3** Fall 2024
4. **SEMESTER 4** Winter 2025
5. **SEMESTER 5** Fall 2025
6. **SEMESTER 6** Winter 2026
7. **SEMESTER 7** Spring 2026

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 for 2023-24 Academic Year

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 1104	Radiation Sciences	3
MRT 1121	Medical Radiation Lab Practice I	2
MRT 1120	Imaging Principles and Concepts I	3
MRT 1144	Radiographic Procedures I	6
	Credits	22
Semester 2		
BIO 1026	Medical Imaging Anatomy and Physiology II	3
HEA 1022	Canadian Health Care	3
MRT 1241	Intro to Health Research	3
MRT 1005	Digital Imaging and PACS	3
MRT 1022	Medical Radiation Lab Practice II	2
MRT 1244	Radiographic Procedures II	5

One General Education course. ¹		3
	Credits	22
Semester 3		
MRT 1150	Patient Management I	2
MRT 1201	Radiographic Pathology I	3
MRT 1210	Dedicated Radiographic Equip	3
MRT 2344	Radiographic Procedures III	5
MRT 1023	Medical Radiation Lab Practice III	2
MRT 2370	X-Ray Safety and QC	4
One General Education course. ¹		3
	Credits	22
Semester 4		
MRT 1004	Clinical Preparation	4
MRT 2310	Computed Tomography Princ/Pro	3
BIO 1006	Cross Sectional Anatomy	3
MRT 2350	Patient Management II	4
MRT 2340	Health Legis. & Professional Practice	3
MRT 1202	Radiographic Pathology II	3
One General Education course. ¹		3
	Credits	23
Semester 5		
MRT 1006	Clinical Practicum I	13
MRT 3511	Medical Radiation Technology Theory Review I	3
	Credits	16
Semester 6		
MRT 1007	Clinical Practicum II	13
MRT 3512	Medical Radiation Technology Theory Review II	3
	Credits	16
Semester 7		
MRT 1008	Clinical Practicum III	13
	Credits	13
	Total Credits	134

¹ For more information regarding General Education courses, click here (<https://cambriancollege.ca/general-education-electives/>).

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 \$1,000. This is the best information available at the time of publishing to the website and is subject to change. Students must supply scrub suit(s) and suitable footwear (running shoes) for lab classes and clinical placement.

Note: Students should have a portable computed device-laptop or tablet for classes.

Graduate Options

Employment Opportunities

Graduates are prepared for employment opportunities as:

- Medical radiation technologists 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.

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

Contacts

Marta Wilkins

Program Coordinator
705-566-8101, ext 6378
marta.wilkins@cambriancollege.ca

INTERNATIONAL ADMISSIONS

mailboxadmissions@cambriancollege.ca