

CNC

Medical Radiography [MRAD] Technology Diploma

Information Session



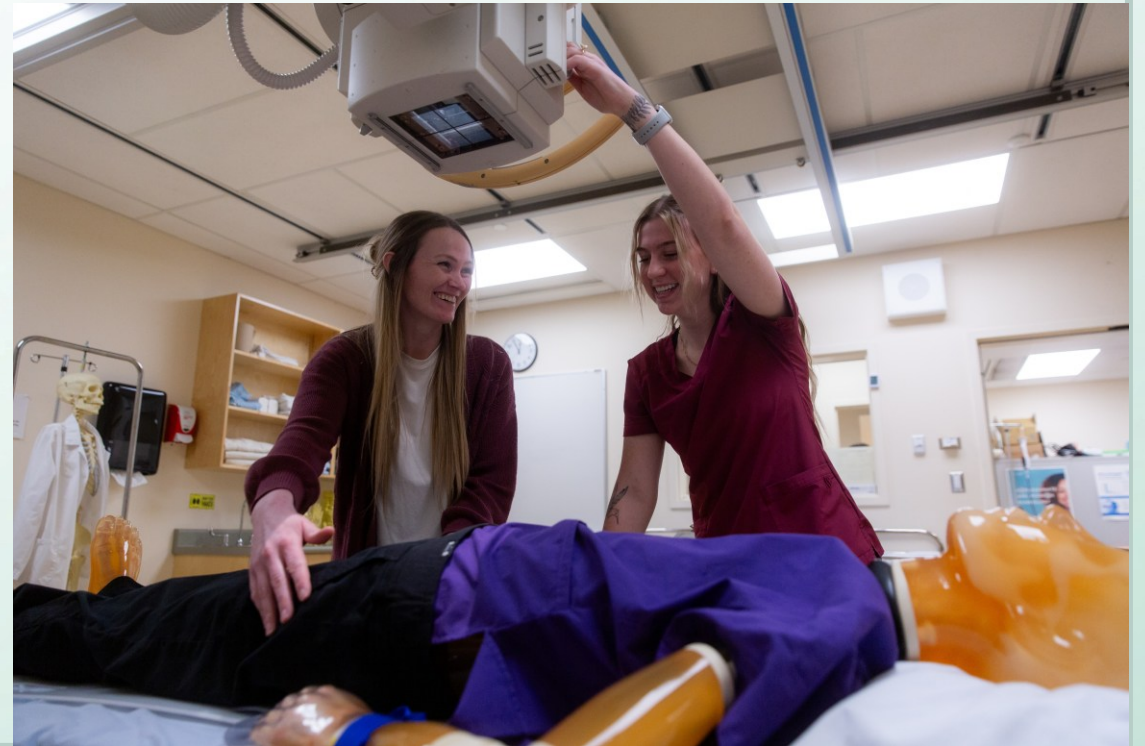
Introduction

Welcome!

In this information session, we'll explore:

- **What it's like to be a Medical Radiation Technologist (MRT)** specializing in radiography (x-ray)
- **What to expect from the program**, including program structure and costs
- **How to apply**, including admission requirements and the application process

Our goal is to give you a better understanding of the program, the profession, and what you can expect as a student.



What Do Medical Radiography Technologists Do?

MRTs combine technology, patient care and clinical decision-making.

Produce Diagnostic Images

Operate imaging equipment to obtain high-quality images that support diagnosis and treatment.

Care for Patients

Explain procedures, address concerns and safely position patients for imaging.

Work as Part of a Team

Collaborate with radiologists, physicians, nurses, surgeons and other healthcare professionals.

Support Procedures & Specialized Care

Assist with surgical and image-guided procedures and perform a variety of specialized examinations.

Practice Safely & Professionally

Apply radiation safety, infection prevention and professional standards in every patient interaction.

Some MRTs may also work in specialized areas such as forensic imaging.

General & Mobile Radiography

The foundation of medical radiography

General Radiography

Perform X-ray examinations of many areas of the body to support diagnosis and treatment.

Mobile Radiography

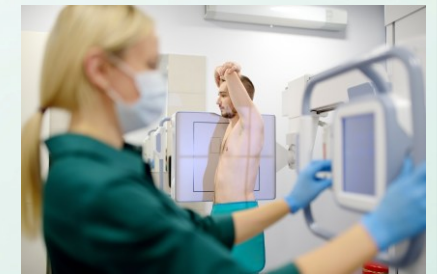
Bring portable X-ray equipment to patients who cannot safely travel to the imaging department.

Where you may work

- Emergency Department
- Intensive Care
- Patient wards
- Operating Room
- Neonatal & post-anesthesia care

Patient care is central to the role.

MRTs position patients, operate imaging equipment and adapt examinations to each patient's needs.



Fluoroscopy, Surgery & Interventional Procedures

MRTs can use X-ray technology in real time to support procedures and treatment.

Fluoroscopy

"Live" X-ray imaging used to assess anatomy and function and guide procedures.

Operating Room

Use mobile and fluoroscopic equipment to help surgeons visualize anatomy and guide procedures.

Interventional Radiology

Support minimally invasive diagnostic and therapeutic procedures, such as biopsies, vascular procedures and catheter placement.

Teamwork is essential

MRTs work closely with radiologists, surgeons, nurses and other healthcare professionals while maintaining radiation safety and sterile technique.



Emergency & Trauma Imaging

MRTs are an important part of the trauma team.

In emergency and trauma settings, technologists use a combination of imaging techniques to quickly produce diagnostic images that help guide patient care.

You may encounter:

- Motor vehicle and other serious accidents
- Fractures, dislocations and spinal injuries
- Head, chest and abdominal trauma
- Burns and penetrating injuries
- Unconscious or critically ill patients
- Pediatric emergencies

Every situation is different.

MRTs must remain calm, adaptable and compassionate while obtaining accurate images in challenging circumstances.

Students gradually build the knowledge and skills needed to work with increasingly complex patients and examinations.



Specialized Imaging

MRTs can pursue additional opportunities and specialization throughout their careers.

Computed Tomography (CT)

Uses X-rays to create detailed cross-sectional and 3D images.

Applications include:

Trauma • cancer • vascular imaging • cardiac imaging • biopsies

Mammography

Specialized breast imaging used for screening and diagnosis.

MRTs may:

Perform mammography and breast tomosynthesis • assist with image-guided procedures • support patients through sensitive examinations

Your MRT career can evolve with your interests, experience and additional training. Start broad. Discover your interests. Build your career.



Radiation Safety in Medical Radiography

Radiation safety is a core part of the profession

X-rays use ionizing radiation to create diagnostic images.

The amount of radiation used in general radiography is carefully controlled and kept as low as reasonably achievable while still producing a useful image.

Radiation protection is integrated throughout your education and clinical training.

How are patients and staff protected?

✓ **Minimize exposure**

Use the lowest appropriate radiation exposure needed for the examination.

✓ **Maximize distance**

Technologists position themselves appropriately and maintain distance from the radiation source when possible.

✓ **Use shielding when appropriate**

Structural barriers and protective equipment help reduce unnecessary exposure.

✓ **Monitor occupational exposure**

Technologists wear personal dosimeters to monitor their radiation exposure, with dose records maintained over time.

Is being an MRT a Good Fit for You?

MRTs combine technical skills with strong people skills.

 Adaptability & Resilience

Remain calm, compassionate and professional in stressful or emotionally challenging situations.

 Physical Stamina

Stand for extended periods, move equipment and assist with patient positioning and transfers.

 Comfort with Clinical Environments

Be prepared to work with trauma, bodily fluids, infectious conditions, needles and surgical procedures.

 Communication & Teamwork

Listen actively, communicate clearly and work effectively with patients and healthcare teams.

 Critical Thinking

Problem-solve, prioritize and adapt quickly to changing clinical situations.

Customer service experience can be an asset.

Where Can a Career in Medical Radiography Take You?

Clinical Practice

- Hospitals
- Community & private clinics
- Cancer treatment centers
- Mobile imaging services

Beyond Clinical Practice

- Education & teaching
- Research
- Medical imaging equipment sales & applications
- Technology, networking & management
- Forensic imaging

Medical radiography offers opportunities to build a career in patient care, technology, education, leadership, research, and more.

Continue Your Education

Build on your MRT education with advanced credentials

Advanced Certificates

- **Breast Imaging** — Screening or Diagnostic
- **Computed Tomography (CT)**
- **Interventional Radiology**
- **Dosimetry**

Post-Diploma Bachelor's Degrees

- Build on your diploma through **degree-completion or post-diploma pathways**
- Transfer opportunities vary by institution and program

Your MRAD diploma can be the beginning, not the end, of your education and career journey.

Employability & Wages

A career with strong employment opportunities and competitive wages

Projected job openings in BC (2025-2035)	BC job outlook (2025-2027)	BC hourly wage range
1870	GOOD	\$32–\$53/hour \$42/hour median

Why MRTs have opportunities

- Work in communities across BC
- Recruitment & retention incentives may be available
- Travel opportunities may be available

Data accessed August 2026. Job openings: WorkBC (2025–2035). Wages and job outlook: Government of Canada Job Bank. Actual employment opportunities and wages vary.

What to expect

- **No summer break-** six consecutive terms
- Clinical practicums take place at **hospitals throughout BC**
- **Fast-paced and intensive-** a substantial academic and clinical workload
- **Physically and mentally demanding-** students need strong time-management, organization, and self-care skills

The program is condensed into 24 consecutive months, making for an intensive academic and clinical experience.



Year 1 | Term 1

September–December • 15 weeks • CNC Prince George Campus

Your introduction to radiography

Students begin with the foundational knowledge and skills needed to safely enter the clinical environment in Term 2.

Courses

- Radiographic Sciences 1
- Human Behavior
- Radiographic Anatomy & Physiology 1
- Radiographic Procedures 1
- Clinical Orientation
- Patient Care
- Physics- Medical Radiography 1
- Relational Anatomy & Physiology- Medical Radiography 1

What to expect

- Full-time, intensive course load
- 5 lab-based courses
- A fast-paced introduction to new concepts and skills
- Knowledge and skills that directly support your first clinical practicum



Take a Tour of Our Labs

Take a virtual tour of our radiography labs at the Prince George campus and see the equipment, spaces, and hands-on learning experiences students use as they develop their skills.

 [Watch the Lab Tour](#)

Please note: *Since this video was recorded, we have updated some of our equipment, including our digital portable x-ray unit and Kyoto phantoms.*

Year 1 | Term 2

January–April • 16 weeks • Clinical Practicum

Your first clinical experience

Students begin working with patients in hospital settings while continuing their academic studies online.

Clinical Education 1

- Rotational shifts in hospital radiography departments
- Hands-on experience taking x-rays with patients
- Clinical shifts may include **days, evenings, nights, weekends, and on-call**
- Progress and competencies documented in a clinical portfolio
- **One weekday per week** dedicated to academic studies

Additional Courses

- Pathology 1
- Radiobiology & Radiation Protection

What to expect

- Your first experience working with real patients in a hospital environment, alongside experienced MRTs.



Year 1 | Term 3

May-August • 15 weeks • Online

A fully online academic term

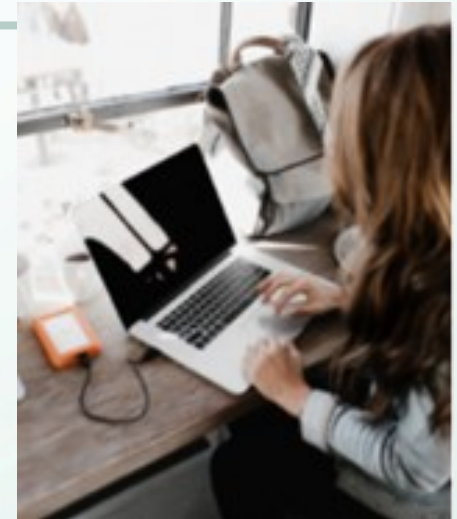
Students complete three courses online, allowing greater flexibility in where they live while continuing their studies.

Courses

- Relational Anatomy & Physiology II
- Professional Ethics & Canadian Healthcare System
- Clinical Applications in Computed Tomography

What to expect

- Fully online learning
- Students may be located anywhere with reliable internet access
- Greater flexibility to balance school with other commitments
- An opportunity to consider employment during the term, depending on individual circumstances and workload



Year 2 | Term 4

August-December • 16 weeks • Clinical Practicum

Build on your clinical experience

Students complete their second clinical rotation at a **different hospital site**, building on the knowledge and skills developed in Term 2.

Clinical Education II

- Rotational hospital shifts with hands-on patient care
- Increasing clinical skills and responsibilities
- Shifts may include **days, evenings, nights, weekends, and on-call**
- Progress and competencies documented in a clinical portfolio
- **One weekday per week** dedicated to academic studies

Additional Courses

- Radiographic Procedures II
- Inter-professional Health Practice

Additional Clinical Experience

- During this clinical term, students will complete approximately two weeks of clinical experience in **computed tomography (CT)**. Scheduling and specific learning opportunities may vary by clinical site.

Year 2 | Term 5

January-April • 15 weeks • CNC Prince George Campus

Return to campus and build on your experience

Students return to CNC for an intensive academic term, building on the knowledge and clinical experience gained throughout the first four terms.

Courses

- Radiographic Anatomy & Physiology II
- Radiographic Procedures III
- Radiographic Sciences II
- Physics- Medical Radiography II
- Relational Anatomy & Physiology- Medical Radiography III
- Communication & Research Skills
- Pathology II
- CT- Physical Principles

What to expect

- Full-time course load with classes and labs Monday-Friday
- More advanced radiography concepts and procedures
- Continued integration of academic knowledge with clinical experience
- Hands-on practice with **IV insertion and contrast administration**



Year 2 | Term 6

May-August • 16 weeks • Final Clinical Practicum

Your final step toward the profession

Students complete their final clinical rotation while preparing for the transition from student to practicing Medical Radiation Technologist.

Clinical Education III

- Rotational hospital shifts with increasing independence and responsibility
- Hands-on patient care and radiographic imaging
- Progress and competencies documented in a clinical portfolio
- Shifts may include **days, evenings, nights, weekends, and on-call**
- Approximately **1½ day per week** dedicated to academic studies

Additional Capstone Course

- Consolidate knowledge and skills from the program
- Practice and prepare for the **CAMRT National Certification Exam**
- Guided self-reflection and development of an individualized study plan

Students will complete approximately two weeks of clinical experience in computed tomography (CT), with additional specialized imaging experiences varying by clinical site.

What Helps Students Succeed?

Stay organized

Manage your time and keep up with a demanding schedule.

Take care of yourself

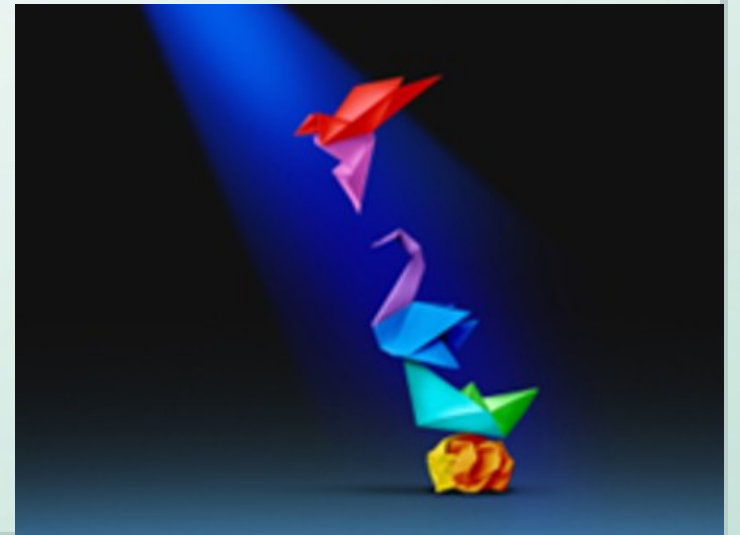
Develop strategies to manage stress and maintain balance.

Ask for support

Connect with peers, instructors, and campus resources when you need help.

Plan for accommodations

If you require accommodations, connect with CNC Accessibility Support Services early.



Clinical Education: What to Expect

- Students may be placed at **clinical sites throughout BC**
- **Students are responsible for travel, relocation and living expenses associated with clinical placements.**
- Access to a vehicle may be advantageous for some placements.
- Students should be prepared to adapt to different schedules and practice environments
- Students work alongside qualified medical radiation technologists in hospital environments.
- Students progressively develop skills in patient care, positioning, imaging, radiation safety and professional practice.
- Students work rotational shifts, including days/evenings and potentially weekends.

Students will:

- Perform radiographic examinations under supervision
- Participate in patient care and communication
- Document clinical progress in their portfolio
- Complete required competencies and learning activities
- Complete concurrent online coursework and scheduled academic requirements, including exams

Where Could I Complete Clinical?

13 accredited clinical sites across Northern & Interior BC

Northern Health	Interior Health
Prince George - UHNBC	Kelowna - Kelowna General Hospital
Quesnel - G.R. Baker Memorial Hospital	Kamloops - Royal Inland Hospital
Dawson Creek - Dawson Creek & District Hospital	Vernon - Vernon Jubilee Hospital
Fort St. John - Fort St. John Hospital	Penticton - Penticton Regional Hospital*
Prince Rupert - Prince Rupert Regional Hospital	Salmon Arm - Shuswap Lake General Hospital
Terrace - Ksyen Regional Hospital	Williams Lake - Cariboo Memorial Hospital
Kitimat - Kitimat General Hospital	<i>*Penticton will also rotate through Summerland Health Center for approx. 2-3 shifts.</i>

Your Clinical Experience

- **3 clinical sites:**
Students complete rotations at three different hospitals, providing exposure to **different patient populations, clinical environments and workflows.**
- **Urban Experience:**
Every student completes **at least one urban rotation** (e.g., Prince George, Kelowna or Kamloops).

How Are Clinical Placements Assigned?

Students have input, but preferences cannot always be guaranteed.

1. Students submit their preferred sites

At the beginning of Term 1, students rank their preferred clinical sites using the CNC MRAD Clinical Placement Calculator (CPC).

2. The CPC considers preferences and program requirements, including:

- Urban and rural experiences
- Operating Room (O.R.) experience
- Patient volume and learning opportunities

3. Each student is assigned three clinical sites

The three-site rotation is designed to collectively meet program requirements.

4. Placements are finalized by the Clinical Supervisor

Assignments remain tentative until approved by the receiving clinical site prior to each term.

Every student's rotation is designed to include:

- ✓ At least **1 urban site**
- ✓ At least **1 site with O.R. experience**
- ✓ No more than **1 low-volume site**

Once confirmed, students cannot request individual site changes.

If a site becomes unavailable, the program will work with the student to arrange an alternative placement.

Estimated Tuition & Program Costs

Approximate cost for the full 6-term program

Tuition	\$21,205
Additional program costs	\$6,045-\$6,545
Estimated total	\$27,250-\$27,750
For the most current tuition and fee information: <u>Medical Radiography Technology Diploma — CNC</u>	

Additional costs may include:

Textbooks- \$2,200

Student/CNC fees- \$2,370*

Uniforms, duty shoes, nametags & calculator- \$500

Gloves & miscellaneous fees- \$325*

CPR refresher- \$100

N95 mask fitting- \$50

Parking- \$500-\$1,000

***Please note:** Costs are estimates and may change without notice. Student fees are set by the student union and some fees may be eligible for opt-out. Parking costs vary by campus and clinical site. A portion of the gloves/miscellaneous fee is refundable upon return of required materials.

Admission Requirements

- High school graduation (or equivalent) –and–
- **Prerequisite courses:**
Applicants must have an **average GPA of 3.0 (B)** across the prerequisite courses, with **no grade below C+**

Anatomy & Physiology	Anatomy & Physiology 12, BIO 050, or equivalent
English	English Studies 12, English First Peoples 12, ENGL 050, ENGL 051, or equivalent
Math	Foundations of Math 12, or equivalent
Physics	Physics 12, PHYS 050, or equivalent

Not sure if your course is equivalent?

[Contact CNC Admissions](#) before applying.



English Language Proficiency

Applicants whose **first language is not English** must also meet CNC's English language proficiency requirements.

One of the following is required:

TOEFL iBT

88 overall

No section below 20

Taken within the last 2 years

OR

IELTS Academic

6.5 overall

No band below 6.0

Taken within the last 2 years

OR

Post-secondary English

6 credits of English studies at a recognized college or university in an English-speaking country

English proficiency is important for effective communication with patients, healthcare teams, and clinical instructors in the clinical environment.

Admissions Process

Limited admission • First Qualified, First Accepted

1. APPLY EARLY

Applications open in September.

Seats fill quickly.



2. MEET THE REQUIREMENTS

Once you have met all admission requirements, you will be accepted **if space remains.**



3. ACCEPT YOUR SEAT

Submit your completed acceptance package by the deadline indicated in your package.

If the program is full

Applicants who meet the admission requirements **after all seats have been filled** will be placed on a waitlist.

Priority consideration

Self-identified Canadian Aboriginal applicants who meet the admission requirements are given priority for **20% of program seats** until the institutionally recognized date.

Program Requirements- after you accept your seat

Before starting the program you must complete:

1. Information Session

Complete this **MRAD Program Information Session**. The session may be completed at any time. If you complete it before applying, **you do not need to repeat it**.

2. MRAD 100: Medical Radiography Terminology

Successfully complete **MRAD 100** before starting Term 1. *Access to MRAD 100 will be provided during the summer before the program begins.*

3. Personal data and release of information form



Program Requirements- Clinical

Before Starting Clinical

Students must complete and maintain the following requirements throughout the program:

Health & Safety

- **Immunization requirements**

In accordance with the BC Centre for Disease Control and BC Student Practice Education Guidelines

- **CPR Level C or Basic Life Support (BLS)**

Online courses must include an in-person skills component

- **N95 mask fit testing**

Qualitative fit test; renewed annually

- **Criminal Record Check- Schedule B**

Required because students work with vulnerable people

- Additional documentation required by clinical placement sites, as applicable

Important to Know

- Students are responsible for the costs of required certifications, testing and documentation.
- All requirements must remain current throughout the program. Students may not begin a clinical placement until all required documentation and certifications are complete.
- **Successful completion of clinical education is required for graduation.**

Accreditation

Your education. Your pathway to certification.

The CNC Medical Radiography Technology program is **accredited**, supporting graduates' eligibility to write the **CAMRT national certification exam**.

Our accreditation is maintained through ongoing review and quality assurance.



ACCREDITATION
AGRÉMENT
CANADA

Certification

Become a Registered Technologist

Upon successful completion of the CNC Medical Radiography program, graduates are eligible to write the **CAMRT National Certification Exam**.

- National certification exam for medical radiography graduates
- **185 questions | 4 hours**
- Offered approximately **3 times per year**
- Exam fee: approximately **\$980**, plus test center/proctoring fees

After you pass

CAMRT Certification



Registered Technologist, Radiological Technology (RTR)



Eligible to practice across Canada*

*Provincial registration/licensure requirements may also apply.



Learn more:

[CAMRT Certification Exam Registration](#) · [CAMRT Exam Dates & Fees](#)

How to Apply

Ready to apply? Start with CNC Admissions.

1. Apply to CNC

Submit your application online through the CNC website.

2. Submit your required documents

Ensure all required documents are received by CNC Admissions before the application deadline.

3. Apply early

Applications are encouraged as soon as the application window opens. Seats are limited.

Apply online

[CNC Admissions — Apply](#)

Check the current application for program-specific requirements, deadlines and required documentation.

Ready to Learn More?

Explore the program and take the next step.

Medical Radiography Technology Diploma

[Explore the CNC MRAD Program](#)

Apply to CNC

[Start your application](#)

Professional Certification

[Canadian Association of Medical Radiation Technologists \(CAMRT\)](#)

Questions? We're happy to help.

MRAD Faculty

Mrtfaculty@cnc.bc.ca

*We look forward to hearing from you- and hopefully welcoming you to CNC
Medical Radiography!*

Thank you

You do not need to complete this session to apply.
However, completion is required **before you can begin the MRAD program.**

If you're viewing this session before applying, we recommend completing the confirmation form now so you don't have to come back to it later.

To receive credit:

1. View the entire information session

2. Complete the confirmation form →

Answer a few questions about the information presented.

3. Achieve 4/5 or higher

You may retake the quiz if needed.

4. Use the same name and email address used on your application

Medical Radiography Technology
Program- Applicant Information
Session Confirmation



[Medical Radiography
Technology Program-
Applicant Information Session
Confirmation – Fill out form](#)

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