



MICs Group of Health Services

Matheson – Iroquois Falls – Cochrane

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Considering a Career in Health Care? There are plenty to choose from!

Medical Radiation Technologist (MRT) (www.cmrito.org)

An MRT is the qualified professional who uses radiation or electromagnetism to produce diagnostic images of a patient's body or who administers radiation to treat patients for certain medical conditions. **During 2 to 5 years of intensive education**, MRTs are trained to use sophisticated and complex imaging and radiation therapy equipment.

MRTs work within one of four specialties in medical radiation technology:

- **Radiography** is the use of x-rays to produce images of parts of the body on film or on computer screens. For example, mammograms, chest x-rays, barium enemas and CT scans.
- **Radiation Therapy** is the treatment of disease with radiation which involves the use of radiation to destroy diseased cells in the body; for example, cancer.
- **Nuclear Medicine** is the use of low-level radioactive substances which are injected, swallowed or inhaled to produce diagnostic images of how the body functions. For example, bone scans, cardiac stress testing and lung scans.
- **Magnetic Resonance** is the use of electromagnetism to produce diagnostic images. Magnetic resonance imaging procedures play a significant role in imaging the brain, spine, abdomen, pelvis and the musculoskeletal system.

Education Requirements:

Medical radiation technology programs typically require an Ontario Secondary School Diploma (OSSD) or equivalent, which includes a grade 12 English credit. Additional requirements will vary, but will likely include assorted senior science and math credits. Radiation therapy program requirements vary; some programs require an OSSD with six grade 12 U or M courses (mainly math and science credits), while others require a minimum of one year of university education, including math and science credits.

In Ontario, this program is offered:

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| <ul style="list-style-type: none">• Algonquin College, Ottawa• Cambrian College, Sudbury• Collège Boréal, Sudbury• Confederation College, Thunder Bay | <ul style="list-style-type: none">• Fanshawe College, London• Mohawk College, Hamilton• Queen's University, Kingston• The Michener Institute, Toronto |
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Employment Opportunities –Radiation professionals can find employment in a number of medical venues, from hospitals and clinics to private radiology practices, research facilities and more. To increase employment value, **MRTs are urged to obtain their Ultrasound designation**. The Government of Canada predicted that employment growth in this occupation over the next few years would be sizeable as a result of the aging population.