

Medical Physicist - Diagnostic Imaging

Nova Scotia Health is the largest provider of health services in Nova Scotia, with some specialized services also offered to clients throughout Atlantic Canada. We're on a mission to achieve excellence in health, healing and learning through working together, which is reflected in the hospitals, health centres and community-based programs we operate across the province. Our passionate team of professionals provides a variety of high-quality inpatient and outpatient services including academic, tertiary, and quaternary care, as well as continuing care, primary health care, public health, and mental health and addictions. Join a diverse team of innovators, collaborators and creative thinkers today.

Nova Scotia Health employs professionals in all corners of our beautiful province. We believe there's a place here for everyone to call home, from vibrant cities with exuberant nightlife to quaint towns with picturesque trails. The work-life balance that comes with an Nova Scotia Health role means you'll have the time to explore, discover, and participate in that coveted Atlantic lifestyle. Visit us today and check out www.novascotia.com to see why more people from across the globe are moving here.

About the Opportunity

Nova Scotia Health (NSH), Atlantic Canada's largest academic health care organization, is recruiting a Medical Physicist to oversee the development and implementation of a Provincial Quality Assurance program for Diagnostic Imaging departments. As a member of the Department of Medical Physics, you will play a vital role in Diagnostic Imaging in Nova Scotia, joining a dynamic team of 15 oncology and two imaging physicists, one oncology physics resident, a medical physics assistant, seven dosimetrists, four electronics/IT technologists and one mechanical technologist.

Funding has recently been approved for the implementation of a province wide Quality Assurance program for Diagnostic Imaging and you will take a leadership role in designing and implementing the program. Leveraging existing QA expertise and personnel currently employed with NSH, you will work with Zone Diagnostic Imaging Directors to ensure that DI equipment throughout the province is meeting quality and safety standards. The position will be based out of Halifax, Nova Scotia, and travel to support sites throughout the province will be expected both during development of the program and to support equipment testing as required.

Essential clinical duties include:

- Evaluating of radiological imaging equipment performance, performing acceptance testing
- Performing shielding calculation for facility design, evaluating existing lead shielding integrity and thickness
- Providing radiation dose calculations and risk evaluation for patients and staff
- Overseeing mammography accreditation by the CAR
- Providing support for selection of new equipment in the RFP process and development of new imaging applications and protocols
- Development of training requirements and competency assessment framework for QA technologists

Academically, you will have a faculty appointment in the Dalhousie University Department of Diagnostic Radiology and will provide both teaching and supervision in CAMPEP-accredited Masters, Doctoral and Certificate programs in medical physics. Program enrolment has quadrupled since accreditation in 2015 and includes nine graduate courses with thesis research in areas including novel technology for image

guidance in radiotherapy, innovative approaches to arc-based therapy, novel detector development, adaptive radiotherapy, improved methods for dosimetry of HDR brachytherapy and applications of functional and molecular imaging to radiation therapy. Our Department of Medical Physics expects research output among its faculty, provides resources, dedicated time and internal funding for graduate students. You will be expected to secure external research support in this context. Our medical physicists leverage exceptional support from Nova Scotia Health Research, Innovation and Discovery in facilitating industry engagement, establishment of intellectual property, and translation of R&D to commercialization toward the benefit of patients worldwide. Nova Scotia Health Medical Physics administers a CAMPEP accredited residency training program in oncology medical physics.

About the Facilities

Diagnostic Imaging services in Nova Scotia are delivered in public facilities ranging from ambulatory clinics with a single x-ray room to a quaternary academic center in Halifax with all imaging modalities.

There are 19 CT scanners in Nova Scotia located at 14 sites – primarily in regional hospital departments and some smaller centers. There are 12 MRI scanners located at regional hospital centers throughout the province. There is a PET/CT facility and a cyclotron facility at the Victoria General site in Halifax at the QEII Health Sciences Center. General x-ray, Fluoroscopy, Nuclear Medicine, Ultrasound, Mammography, Bone Mineral Densitometry and Interventional Radiology equipment is also present at numerous centers throughout the province.

About You

We would love to hear from you if you have the following:

- Doctorate in Medical Physics
- Certification by the Canadian College of Physicists in Medicine (MCCPM) or the American Board of Radiology (DABR) OR are eligible for MCCPM certification by having graduated from a CAMPEP-accredited residency training program in Diagnostic Imaging physics
- Strong track record of funded research in Diagnostic Imaging physics
- Competencies in other languages an asset, French preferred

Additional desired qualifications for the position include:

- An active research portfolio with a history of grant funding
- A recent history of impactful publications in Diagnostic Imaging physics
- Experience in commercialization of technologies including invention, patenting, and licensing or spin-out of new ventures
- Industry collaboration including industry-driven or investigator-initiated projects
- Teaching and supervisory experience at the graduate level
- Certification by the CCPM in mammography

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Please ensure your resume is up to date and includes all relevant education, experience, training, and certifications.

Hours

Permanent, Full Time; 75 hours bi-weekly

Compensation and Incentives

\$73.01 - \$96.89 Hourly

Successful candidates may be eligible for our benefits package which includes health, dental, travel, long-term disability, and life insurance coverage as well as a defined benefit pension plan.

To apply, please follow this link: [Medical Physicist - Diagnostic Imaging \(nshealth.ca\)](#)