

Job Title: Research Methodologist, Medical Physics - RI&D

Req ID: 148373

Company: Nova Scotia Health

Location: Central Zone, Halifax Infirmary Robie Street Entrance - QEII

Department: Research Medical Physics

Type of Employment: Casual Hourly FT long-assignment (100% FTE) x 1 position(s)

Status: Management/Non Union Position

Posting Closing Date: 13-Feb-23

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.

Nova Scotia Health's Research, Innovation and Discovery portfolio is transforming health care delivery and improving the health of all Nova Scotians by leading initiatives that deliver high-impact health care solutions and developing strategic partnerships with clinical champions, industry, healthcare foundations, governments and academic partners. By pairing leading researchers, innovators, and clinicians with entrepreneurs through our newly formed Health Innovation, Research and Discovery Hub, their creative solutions are improving health and health care while also contribute directly to Nova Scotia's economy.

About the Opportunity

Nova Scotia Health, Atlantic Canada's largest academic health care organization, is recruiting a researcher in Medical Physics at the QEII Health Sciences Centre site in Halifax, Nova Scotia. As a member of the Department of Medical Physics, you will play a vital role in the advancement next-generation imaging and adaptive radiotherapy technology.

You will join a dynamic RI&D group, which includes graduate students and researchers who contribute to leading projects on novel technology for image guidance in radiotherapy, innovative approaches to arc-based therapy, novel detector development, improved methods for dosimetry of HDR brachytherapy and applications of functional and molecular imaging to radiation therapy. Your own research portfolio will focus on the technical aspects of the HyperSight technology (Varian Medical), a novel system offering high-quality, rapid and quantitative CBCT imaging. A world's first

installation is now available at our institution. You will be characterizing imaging performance, exploring the impact of HyperSight on adaptive RT methodologies, and assisting with in-house, REB-approved clinical studies.

Reporting to the Principal Investigator (PI) Medical Physics and collaborating with other consultants within Medical Physics and partner clinical and health researchers, the Research Methodologist will be responsible for CBCT image data and image analysis, dose calculation using Eclipse, coding in Matlab, C# and/or ESAPI, collation of results, preparation of presentations and papers, and communication with research partners in Intelligent Imaging Consortium.

The Facility

The Radiation Oncology facility in Halifax includes seven Varian treatment units. Equipment includes five TrueBeam units, one equipped with stereoscopic imaging and robotic guidance, and one Ethos 4.0 system. A full range of radiation treatment is offered, including VMAT for a majority of radical cases, cranial SRS/SRT and SBRT for lung, liver and spine and oligometastatic indications. The facility administers an active brachytherapy service, including ultrasound-based, real-time prostate HDR. External beam planning systems is Eclipse, deployed through a thin client architecture, as well as Oncentra for brachytherapy. A computational cluster supports distributed numerical modeling for research applications. MRI and PET imaging and cyclotron facilities are on site.

About You

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

- Masters or Doctorate in physics or engineering with related experience required
- Masters or Doctorate in medical physics (preferred)
- Background in medical image handling, processing and analysis
- Programming experience in Matlab and C# (preferred) or other
- Research and clinical experience of 3 years in radiation oncology physics and/or diagnostic imaging, or an equivalency required

*Successful Applicants are required to provide a criminal record check (including Vulnerable Sector Search) to Human Resources before starting employment and assume any associated costs as a condition of employment.

PLEASE NOTE: Applicants will be screened on the above qualifications. Applicants must clearly demonstrate how they meet the knowledge and competencies in their cover letter and resume. Applicants relying on education and experience equivalencies must demonstrate such equivalencies in their application. Applicants will not be considered for an interview if applications are incomplete or missing information.

Hours of Work

Long Assignment, Full-Time (75 hours bi-weekly)
Beginning March 6, 2023 and ending March 6, 2024 with possibility of extension.

*Dates are approximate and are subject to change.

Salary Information

\$40.27 - \$50.34 hourly
\$78,528.26 - \$98,160.47 Annually

Once You've Applied

Thank you for your interest in this position. Only those applicants selected for an interview will be contacted. Some opportunities may be eligible for our Employee Referral Program. If a Nova Scotia Health employee refers a candidate who is not working for the organization and the candidate is hired, the employee who made the referral may be eligible to earn up to \$1000. For more details and instructions, please visit [Recruitment - Incentives](#)

As per the COVID-19 Mandatory Vaccination Protocol in High-Risk Settings, Nova Scotia Health requires all team members to be fully vaccinated by November 30th, 2021.

Nova Scotia Health is committed to being a workforce that is free of discrimination, values diversity and is representative, at all job levels, of the people we serve. We encourage all qualified applicants who self-identify as Indigenous, Black/African Nova Scotian, Persons of Colour, Foreign Nationals/Newcomers, Persons with Disabilities, 2SLGBTQIA+ to apply and self-identify.

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