



Provincial Job Description

TITLE:
(477) Medical Imaging Physicist

PAY BAND:

FOR FACILITY USE:

SUMMARY OF DUTIES:

Develops and oversees the comprehensive quality control program for Positron Emission Tomography (PET) - Computerized Tomography (CT), Nuclear Medicine and Medical Imaging. Responsible for the clinical development and maintenance of the Medical Imaging department's Radiation Safety Program.

QUALIFICATIONS:

- ◆ PhD in Physics, Engineering, Medical Physics or Biomedical Imaging
 - ◆ Certification with the American Board of Radiology

KNOWLEDGE, SKILLS & ABILITIES:

- ◆ Advanced computer skills
- ◆ Interpersonal skills
- ◆ Organizational skills
- ◆ Communication skills
- ◆ Research skills
- ◆ Analytical skills
- ◆ Ability to work independently
- ◆ Valid driver's license, where required by the job

EXPERIENCE:

- ◆ Previous: Twenty-four (24) months previous experience in PET/CT and Nuclear Medicine to consolidate knowledge and skills.

KEY ACTIVITIES:

A. Quality Control Program

- ◆ Ensures the development and ongoing support/review of quality control for PET/CT, Nuclear Medicine and Medical Imaging program. This includes hardware, software and attenuation correction of electronic display devices.
- ◆ Reviews testing certification and acceptance of all PET/CT, Nuclear Medicine and Medical Imaging equipment.
- ◆ Ensures patient dose assigning equipment and dose delivery systems in accordance with Saskatchewan and Federal regulatory requirements.
- ◆ Provides support and leadership for PET/CT, Nuclear Medicine and Medical Imaging program accreditation.
- ◆ Assists with the development and ongoing support/review of comprehensive quality control associated with the other modalities included within the department of Medical Imaging (e.g., General Radiology, CT, MRI, Angiography).

B. Research and Education

- ◆ Advises and/or implements clinical and research protocols for the PET/CT.
- ◆ Initiates and participates in research efforts with other departments and institutions.
- ◆ Develops physics research projects for presentations at meetings and publication in peer review journals.
- ◆ Teaches physicians, trainers and technologists the technical aspects of PET/CT Nuclear Medicine and Medical Imaging systems.
- ◆ Keeps up to date on new technologies and advances in the field.

C. Preventative Maintenance and Technical Support

- ◆ Provides technical support for the PET/CT, Nuclear Medicine and Medical Imaging systems.
- ◆ Ensures PET scanner calibration and PET/CT image quality test.
- ◆ Ensures the interfacing for Nuclear Medicine Picture Archiving and Communication System (PACS).
- ◆ Provides training of technical & professional staff to ensure optimal use of PET/CT and Nuclear Medicine systems.

D. Related Key Work Activities

- ◆ Seeks outside research support by building relationships with other research providers.
- ◆ Maintains relationships with the Saskatchewan Cancer Agency and Medical Physics Program for Oncology patients.
- ◆ Participates in an academic appointment at the University of Saskatchewan through the Department of Medical Imaging and other departments.

The above statements reflect the general details considered necessary to describe the principal functions of the job and shall not be construed as a detailed description of all related work assignments that may be inherent to the job.

Validating Signatures:

CUPE:

SEIU:

SGEU:

SAHO:

Date: March 11, 2015