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Job Description

Medical Physicist (Nuclear Medicine)(P4) - (2019/0264 (020252))

Organization: NAHU-Dosimetry and Medical Radiation Physics Section

Primary Location: Austria-Vienna-Vienna-IAEA Headquarters

Job Posting: 2019-05-06, 3:36:23 PM

Closing Date: 2019-06-17, 10:59:00 PM

Duration in Months: 36

Contract Type: Fixed Term - Regular

Probation Period: 1 Year

Organizational Setting

The Department of Nuclear Sciences and Applications implements the IAEA's Major Programme 2, "Nuclear Techniques for Development and Environmental Protection". This Major Programme comprises individual programmes on food and agriculture, human health, water resources, environment and radiation technologies. These programmes are supported by laboratories in Seibersdorf, Monaco and Vienna. The Major Programme's objective is to enhance the capacity of Member States to meet basic human needs and to assess and manage the marine and terrestrial environments through the use of nuclear and isotopic techniques in sustainable development programmes.

The Division of Human Health is organized into four Sections whose objectives are to enhance the capabilities of Member States to address needs related to the prevention, diagnosis and treatment of health problems through the development and application of nuclear techniques within a framework of quality assurance.

The Dosimetry and Medical Radiation Physics Section (DMRP) is responsible for quality assurance and metrology in radiation medicine. The Section works closely with clinical colleagues of the Applied Radiation Biology and Radiotherapy Section and the Nuclear Medicine and Diagnostic Imaging Section. Specifically, DMRP provides technical support in medical physics to ensure the safe and effective applications of nuclear technology in radiotherapy, diagnostic radiology and nuclear medicine. It operates the Dosimetry Laboratory located at the Agency's Laboratories, Seibersdorf, and provides a dosimetry calibration service and a dosimetry auditing and verification service for Member States.

Main Purpose

As a member of a team led by the Section Head, the Medical Physicist contributes specialized technical input to the formulation and implementation of projects related to the medical physics aspects of nuclear medicine practice, including quality assurance and radiation protection. The incumbent provides advice and supports Member States to plan training for medical physicists, especially in the field of nuclear medicine; to develop and maintain physics aspects of QA programmes including the performance of accurate radioactivity and radiopharmaceutical dosimetry measurements; and to design the layout of nuclear medicine facilities.

Role

The Medical Physicist is: (1) a project/technical officer, managing multiple research and technical co-operation projects; (2) a scientific secretary, preparing reports and presentations as well as organize and host various meetings annually, and; (3) a technical trainer, participating in the design, implementation and delivery of training of fellows in the area of medical physics in nuclear medicine.

Functions / Key Results Expected

- Contribute scientific and professional expertise toward achieving the aims of technical cooperation and research projects in the field of medical physics; supervise the planning and implementation phases of the project activities; organize and administer scientific meetings and submits reports.
- Develop guidelines and recommendations: a) concerning the physics aspects of nuclear medicine including quality assurance; internal dosimetry (particularly for therapy) and radiation safety; b) for auditing the quality of nuclear medicine practice; and c) for standardizing methodology for radioactivity measurement, image quantification and internal dosimetry to hospitals in Member States.
- Organize scientific meetings, training courses and seminars related to nuclear medicine physics; prepare scientific programmes and serve as scientific secretary for such meetings.
- Organize and/or coordinate relevant research projects in the field of nuclear medicine, including relevant research projects in the field of nuclear medicine, including inter-institution comparisons to determine and improve the accuracy of radioactivity measurements and image quantification for the main radionuclides used in nuclear medicine in Member States.

Competencies and Expertise

Core Competencies

Name	Definition
Communication	Communicates orally and in writing in a clear, concise and impartial manner. Takes time to listen to and understand the perspectives of others and proposes solutions.
Achieving Results	Takes initiative in defining realistic outputs and clarifying roles, responsibilities and expected results in the context of the Department/Division's programme. Evaluates his/her results realistically, drawing conclusions from lessons learned.
Teamwork	Actively contributes to achieving team results. Supports team decisions.
Planning and Organizing	Plans and organizes his/her own work in support of achieving the team or Section's priorities. Takes into account potential changes and proposes contingency plans.

Functional Competencies

Name	Definition
Commitment to continuous process improvement	Plans and executes activities in the context of quality and risk management and identifies opportunities for process, system and structural improvement, as well as improving current practices. Analyses processes and procedures, and proposes improvements.
Partnership building	Identifies and builds partnerships. Develops and maintains long lasting partnerships to strengthen relationships. Delivers programmatic outputs and acquires resources in support of Agency goals.
Technical/scientific credibility	Ensures that work is in compliance with internationally accepted professional standards and scientific methods. Provides scientifically/technically accepted information that is credible and reliable.

Required Expertise

Function	Name	Expertise Description
Dosimetry	Dosimetry	Thorough knowledge of the principles and practice of nuclear medicine dosimetry as it applies to imaging and treatment with radionuclides. Ability to analyse the current dosimetry practices and propose topics which need standardization and guidance.
Medical Physics	Education and Training in Medical Radiation Physics	Experience in teaching and training in medical physics in nuclear medicine, and in the development of educational material and supervision of hospital trainees and students.
Medical Physics	Nuclear Medicine Physics	Thorough knowledge of the principles and practice of nuclear medicine medical physics in imaging and treatment with radionuclides including hybrid imaging equipment, non-imaging instrumentation, quality control and clinical computing.

Asset Expertise

Function	Name	Expertise Description
Dosimetry	Quality Management	Knowledge of quality management systems applicable to nuclear medicine departments. Ability to critically assess and review reports and propose realistic actions for quality improvement.
Nuclear Medicine	Radiopharmacy and Radiochemistry	Knowledge of the good laboratory practice radiopharmacy for nuclear medicine, including production, preparation and quality control procedures.

Qualifications, Experience and Language skills

- Doctorate Degree - in Medical Physics or closely related field.
- Minimum of seven years of practical experience in clinical medical radiation physics of which at least five years in nuclear medicine physics.
- Experience in establishing and/or improving quality assurance programs for nuclear medicine is required.
- Experience in internal dosimetry is required.
- Experience as a medical radiation physicist in a radiology facility would be a significant asset.
- Familiarity with and understanding of the specific needs in nuclear medicine of low- and middle-income countries is an asset.
- Excellent oral and written command of English. Knowledge of other official IAEA languages (Arabic, Chinese, French, Russian and Spanish) is an asset.

Remuneration

The IAEA offers an attractive remuneration package including a tax-free annual net base salary starting at **US \$72637** (subject to mandatory deductions for pension contributions and health insurance), a variable [post adjustment](#) which currently amounts to **US \$ 30144***, dependency benefits, [rental subsidy](#), [education grant](#), [relocation](#) and [repatriation expenses](#); 6 weeks' annual vacation, [home leave](#), [pension plan](#) and [health insurance](#)

Applications from qualified women and candidates from developing countries are highly encouraged.

Applicants should be aware that IAEA staff members are international civil servants and may not accept instructions from any other authority. The IAEA is committed to applying the highest ethical standards in carrying out its mandate. As part of the United Nations common system, the IAEA subscribes to the following core ethical standards (or values): [Integrity](#), [Professionalism](#) and [Respect for diversity](#). Staff members may be assigned to any location. The IAEA retains the discretion not to make any appointment to this vacancy, to make an appointment at a lower grade or with a different contract type, or to make an appointment with a modified job description or for shorter duration than indicated above. Testing may be part of the recruitment process
