

Job Description for Professional Posts

Reference:NA2025/18

Position and Grade: Associate Project Officer (Road mapping), P2

Organizational Unit: Nuclear Sciences and Instrumentation Laboratory
Physics Section
Division of Physical and Chemical Sciences

Duty Station: Seibersdorf, Austria

Type/Duration of Appointment: FT – JPO, 1 year

Organizational Setting

The Physics Section is responsible for planning and implementing activities in the areas of (i) research and applications with accelerators and neutron sources, (ii) fostering relevant research and development and applications using nuclear instrumentation, and (iii) plasma physics as well as fusion research and technology development, in order to enable Member States to avail themselves of the benefits of nuclear sciences and technologies. It operates the Nuclear Sciences and Instrumentation Laboratory (NSIL), located at the Agency's Laboratories in Seibersdorf, which assists laboratories in Member States to improve the effective utilization of nuclear spectrometry and related instrumentation by providing technical advice, training, calibration services, assistance with the modification and development of nuclear instruments and with new applications of nuclear spectrometry techniques in various fields, including energy related applications, environmental monitoring, industry, and the study of cultural heritage objects. More recently, NSIL has been engaged in development and application of mobile gamma spectroscopy instrumentation, including the use of backpack- and drone-based techniques for radiological surveys and mapping.

Main Purpose

As a member of a team led by a Laboratory Head, Associate Project Officer (Road mapping) provides direct support to the development and implementation of IAEA activities to increase relevant capabilities within interested Member States for capacity building in the area of mobile and airborne radiation detection and gamma spectroscopy instrumentation. The Associate Project Officer (Instrumentation) will be involved in the implementation, activity development and utilization of backpack- and drone-based techniques for radiological mapping purposes.

Role

The Associate Project Officer (Road mapping) fulfils several roles within the team: (i) an organizational, policy, project implementation or technical specialist, providing advice and support to the Laboratory Head on utilization and applications of backpack- and drone-based techniques for radiological mapping; (ii) a team member coordinating and implementing IAEA activities under the direct oversight of the Laboratory Head covering a broad range of activities such as education and

training, presentation and demonstration of current technology, participating on hardware and software development, performing radiation experiments and tests, etc.; (iii) a facilitator, encouraging internal and external cooperation and development through communication with both IAEA and external project stakeholders; (iv) a technical writer producing and reviewing documents relating to mobile and airborne radiation detection technology and other field measurement techniques; and a team member of IAEA missions to interested Member States working to address relevant challenges and issues associated with utilization and applications of backpack- and drone-based techniques for radiological mapping.

Partnerships

The Associate Project Officer (Road mapping) provides advice and coordinates detailed activities under the overarching guidance of the Laboratory Head on utilization and applications of backpack- and drone-based techniques for radiological mapping to internal and external stakeholders, including IAEA programme managers in other sections and departments on programmatic and cross-cutting issues and initiatives.

Functions / Key Results Expected

- Under the direct guidance of the Laboratory Head:
- In close collaboration with the team, implement the IAEA's activities on utilization and applications of backpack- and drone-based techniques for radiological mapping to meet IAEA programmatic objectives.
- Gather and provide information, advice and guidance on applications of backpack- and drone-based techniques for radiological mapping and related technical projects.
- Support projects in the subject area; evaluate proposals, plan and implement activities; prepare and monitor contracts for the supply of goods and services such as laboratory equipment, external assistance or research; and review the results achieved.
- Within the scope of relevant projects, initiate, plan and conduct meetings for Member States to review and discuss utilization and applications of backpack- and drone-based techniques and their challenges. Undertake studies and comparative assessments of various specific issues and present conclusions, recommendations, lessons learned, etc.
- Coordinate/liaise with external institutions and stakeholders; gather, maintain and apply knowledge of international good practices and future trends in the subject area.
- Contribute to the development of documents and technical reports on important aspects of project activities related to utilization and applications of backpack- and drone-based techniques for radiological mapping and update IAEA publications and initiate database in the subject area.

Competencies and Expertise (do not revise or edit)

Core Competencies		
Competence	Occupational Role	Behavioural Indicator
Communication	Individual Contributor	Communicates orally and in writing in a clear, concise and impartial manner. Takes time to listen and understand the perspective of others and proposes solutions.

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Achieving Results	Individual Contributor	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	Individual Contributor	Actively contributes to achieving team results. Supports team decisions.
Planning and Organizing	Individual Contributor	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		
Competence	Occupational Role	Behavioural Indicator
Analytical Thinking	Associate	Gathers and analyses information, identifying critical relationships and patterns among data and proposes workable solutions.
Technical/Scientific Credibility	Associate	Acquires and applies new skills to remain up to date in his/her area of expertise. Reliably applies knowledge of basic technical/scientific methods and concepts.

Expertise	
Expertise	Description
Physics/Nuclear Physics	Good knowledge of nuclear physics or related field with emphasis on gamma spectroscopy and related techniques for in-situ radiological surveys and mapping

Education, Experience and Language Skills

- University degree in nuclear physics, nuclear engineering, radiation protection or related field.
- Minimum two years of professional experience in the area of applications of radiation detectors and gamma spectroscopy in the field of radiological surveys. Experience in use of backpack- and drone-based techniques and methodologies for radiological mapping is an asset.
- Experience in international cooperation with proven ability to participate effectively in a multinational and multidisciplinary team with sensitivity and respect for diversity.
- Experience in technical writing in English for producing and reviewing documents in the subject area.
- Excellent oral and written command of English. Knowledge of other official IAEA languages (Arabic, Chinese, French, Russian and Spanish) is an asset.

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