

Job Description for Professional Posts

Reference:NA2024/28

Position and Grade:	Associate Project Officer (Radioactive Tracers), P2
Organizational Unit:	Radiochemistry and Radiation Technology Section Division of Physical and Chemical Sciences
Duty Station:	Seibersdorf
Type/Duration of Appointment:	FT – JPO, 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 Physical and Chemical Sciences is responsible for assisting and advising Member States in research and development for the nuclear sciences, especially the physical and chemical sciences. Specifically, the Division provides support to Member States in the following fields: production of radioisotopes and radiolabelled products for applications in health care and industry; radiation source applications; research reactor utilization; applications of accelerators and nuclear instrumentation; nuclear and atomic data for applications; controlled nuclear fusion and isotope hydrology and geochemistry.

Main Purpose

The Associate Project Officer provides direct support to the development and implementation of IAEA activities to increase relevant capabilities within interested Member States for networking, strategic planning, knowledge transfer and technology development in Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment.

Role

The Associate Project Officer is: (i) a technical analyst providing support to the Project Manager on Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment; (ii) a team member, providing assistance in the coordination and implementation of IAEA's activities under the direct oversight of the Project Manager covering a broad range of Radiotracers & Sealed Sources, Nucleonic Gauges and NDT for Industry and Civil Engineering such as education and training on radiation technology, benefits of application of radiotracers, sealed sources for gamma scanning and nucleonic gauges as well as NDT techniques for industrial plant evaluation including civil structures in general, etc and particularly in the event of natural disaster management, advise on the organisational

architecture of the NDT Emergency Response Centre (ERC) and its connection and coordination with other collaborating centres, development of training materials including the establishment of protocols for equipment and human capacity for applications of NDT and tracers in this field, providing training and education on the kinds of NDT and tracer techniques suitable for this particular application 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 on Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment; (v) and a team member of IAEA missions to interested Member States working to address relevant challenges and issues associated with Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment.

Partnerships

The Associate Project Officer provides assistance and support under the overarching guidance of the Project Manager areas in Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment 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:

- In close collaboration with the team, develop protocols for the use and maintenance of equipment in the Radiotracer lab.
- Develop Standard Operating Procedures (SOPs) for the equipment in the Radiotracer Lab as well as methods and related documents towards the development of a Quality Management System (QMS) for the laboratory.
- Prepare materials for planned training programmes to be organized.
- Provide assistance in implementing the IAEA's activities on the application of Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment to meet IAEA programmatic objectives.
- Gather and provide information, insight and guidance on the application of Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment and related technical projects.
- Support projects in the subject area; evaluate proposals, plan, and implement activities; prepare and monitor contracts for the supply of equipment and services such as laboratory equipment, external assistance, or research; and review the results achieved.
- Within the scope of relevant projects, in close collaboration with the team, initiate, plan, and conduct meetings for Member States to review and discuss the status and progress achieved to overcome challenges related to the application of Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment. Undertake studies and comparative assessments of various specific issues and present conclusions, recommendations, lessons learned, etc.
- Coordinate/liase with external institutions and stakeholders; gather, maintain, and apply knowledge of international standards and future trends in the subject area.
- Contribute to the development of documents and technical reports on important aspects of project activities related to the application of Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment and update IAEA publications and databases 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.
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
Chemical Engineering/Nuclear Engineering/Environmental Engineering/Industrial Engineering/Applied Physics	Good knowledge of radiation technology or related field with emphasis on Radiotracers (Sealed and Open & Sources) and Nucleonic Control Systems in industry and environment, related technical projects and the infrastructure and organizational aspects required to implement them.

Education, Experience and Language Skills

- University degree in chemical Engineering, nuclear engineering or related field.
- Minimum two years of professional experience in the area of radiotracer applications in industry.
- 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; Fluency in spoken and written English. Knowledge of any other official IAEA language (i.e. Arabic, Chinese, French, Russian or Spanish) would be an advantage.