

Job Description for Professional Posts

Reference:NA2024/35

Position and Grade:	Associate Project Officer – Non-Destructive Testing (NDT), 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 the areas of NDT for Industry, Civil Engineering and Cultural Heritage studies.

Role

The Associate Project Officer is: (i) a technical analyst providing support to the Project Manager on NDT for industry and Civil Engineering and Cultural heritage; (ii) a team member, providing assistance in the coordination and implementation of IAEA's activities under the direct oversight of the Project Manager covering NDT for Industry and Civil Engineering such as education and training on radiation technology, benefits of application of NDT techniques for industrial plant evaluation including cultural Heritage and 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 IAEA collaborating centres and Practical Arrangements (PA) in NDT, development of training materials including the establishment of protocols for equipment and human capacity for applications of NDT in this field, providing training and education on the kinds of NDT 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 NDT for Industry, Civil

Engineering and Cultural Heritage;(v) and a team member of IAEA missions to interested Member States working to address relevant challenges and issues associated with NDT for Industry and Civil Engineering.

Partnerships

The Associate Project Officer helps and support under the overarching guidance of the Project Manager in NDT for Industry, Cultural heritage and Civil Engineering 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

- Develop protocols for the use and maintenance of NDT Lab for Industry and Civil Engineering equipment.
- Prepare technical materials for training events organized by the Section.
- Provide assistance to the team in implementing the IAEA's activities on NDT for Industry, Cultural Heritage and Civil Engineering to meet IAEA programmatic objectives
- Gather and provide information, insight and guidance on the application NDT for Industry and Civil Engineering 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 NDT for Industry and Civil Engineering. 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 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 NDT for Industry and Civil Engineering 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

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		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
Civil, Structural, materials or Nuclear Engineering	Good knowledge of NDT for Industry and Civil Engineering related technical projects and the infrastructure and organizational aspects required to implement them.

Education, Experience and Language Skills

- University degree in civil, structural, nuclear or material engineering or related field;
- Minimum two years of professional experience in the area of NDT for Industry, Cultural Heritage and Civil Engineering;
- 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.

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