

# Job Description for Professional Posts

**Reference:**NA2024/32

<b>Position and Grade:</b>	Associate Environmental Monitoring Officer (TEL), P2
<b>Organizational Unit:</b>	Terrestrial Environmental Radiochemistry (TERC) Laboratory Radiochemistry and Radiation Technology Section Division of Physical and Chemical Sciences
<b>Duty Station:</b>	Seibersdorf
<b>Type/Duration of Appointment:</b>	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.

The Terrestrial Environmental Radiochemistry (TERC) Laboratory assists IAEA Member States in enhancing the quality of their analytical measurements of radionuclides, trace elements and stable isotope ratios for monitoring and assessment of environmental pollution and climate change. This is accomplished by provision of reference products, such as matrix reference materials, validated procedures, proficiency tests, and guidelines for environmental protection, and through coordination of laboratory networks and training activities. Contributing to the IAEA Technical Cooperation programme, TERC supports the Member States in their development and capacity building by improving preparedness for emergency situations, analytical quality in Member States laboratories and providing training.

## Main Purpose

As a member of the Environmental Assessment & Management team, supervised by the Laboratory Head, the Associate Environmental Monitoring Officer supports the preparation of training materials on environmental monitoring of radioactivity and of associated training programmes and workshops.

## Role

The Associate Environmental Monitoring Officer is: (i) a programme contributor, assisting to the implementation of training programmes in the areas of sampling and field measurement techniques related to environmental monitoring and radioecology; (ii) a scientific assistant to organize training events at IAEA and potentially in Member States in cooperation with other staff and to prepare lecture materials for further regular use in future courses; (iii) a technical officer for providing technical and scientific input from existing training materials in the fields of radioecology, remediation, and environmental monitoring.

## Partnerships

The Associate Environmental Monitoring Officer provides assistance and support related to conducting training events to other staff in the Environmental Laboratories, both in the field of marine and terrestrial environment. He/she interacts with staff of other divisions in multidisciplinary approaches for training aspects of environmental assessments and remediation and cooperates actively with scientists from Member States for training and knowledge transfer. He/she promotes collaboration with other relevant organisations, scientific associations and other stakeholders active in environmental monitoring and radioecology.

## Functions / Key Results Expected

- Assist the team in developing training materials (from existing draft material) in areas of sampling of soils, water, plants and other environmental objects and on optimising sampling strategies for monitoring in areas affected by both routine discharges and accidental releases of radionuclides.
- Organise training courses in close cooperation with the team and other staff (at least 1 training event per year) in areas of environmental sampling. Assist IAEA Member States in designing training courses to enhance their capability for evaluating radionuclide pathway analysis and remediation strategies based on environmental monitoring data.
- Provide technical assistance to Member States on questions related to terrestrial and freshwater radioactivity monitoring studies.
- Pre-screen (according to provided criteria) and support the evaluation of applications for fellowships, scientific visits and attendance to training courses and review technical papers and related documents in the area of radioecology.

## 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.

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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.

<b>Functional Competencies</b>		
<b>Competence</b>	<b>Occupational Role</b>	<b>Behavioural Indicator</b>
Knowledge sharing and learning	Associate	Actively seeks opportunities to learn by formal and informal means; learns from others, adopting and sharing best practice.
Judgement / decision making	Associate	Consults with supervisor/manager and makes decisions in full compliance with the Agency's regulations and rules.

<b>Expertise</b>	
<b>Expertise</b>	<b>Description</b>
Environment /Environmental Sampling	Practical experience in environmental sampling and knowledge on sampling design schemes
Physical Science /Environment /Environmental Monitoring and Assessment	Understanding of environmental radionuclide monitoring and its use for environmental risk assessment
Training / Training / Training Implementation	Expertise in preparation of educational training material and in conducting training

**Education, Experience and Language Skills**

- University degree in environmental sciences (i.e. biochemistry, biology, toxicology or radioecology). An advanced degree is an asset.
- Minimum of two-year experience related to environmental monitoring or radioecology.
- Fluency in spoken and written English is essential. Working knowledge of other official IAEA language (Arabic, Chinese, French, Russian and Spanish) would be an advantage.

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