

Job Description for Professional Posts

Reference: NA2024/64

Position and Grade:	Associate Research Scientist (Marine Radioactivity), P2
Organizational Unit:	Radiometrics Laboratory Division of IAEA Marine Environment Laboratories
Duty Station:	Monaco
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 IAEA Marine Environment Laboratories consists of three laboratories, which are located in Monaco. The Division supports Member States in enhancing their capacity to use nuclear and isotopic techniques to understand marine and atmospheric environmental processes and dynamics, and to identify and address environmental problems caused by radioactive and non-radioactive pollutants and climate change.

Main Purpose

As part of a team led by the Laboratory Head, the Associate Research Scientist (Marine Radioactivity) liaises with scientists and project officers from institutions involved in sea area monitoring in Japan and in other areas of the world's oceans for the purposes of identifying and acquiring relevant marine environmental radioactivity datasets for inclusion in MARiS, the IAEA's Marine Information System. Additionally, the incumbent retrieves relevant datasets from technical reports, scientific publications and databases. The incumbent prepares all such the datasets for import into MARiS and contributes to the development of communication products based on the comprehensive MARiS database with a focus on Japanese sea area monitoring.

Role

Under supervision of the Head of the Radiometrics Laboratory, the incumbent is: (i) a technical contributor with knowledge of marine environmental radioactivity sampling, analysis and interpretation, (ii) a data analyst compiling, processing and analysing data, and (iii) a communicator liaising with

Japanese and other institutions involved in marine monitoring and preparing and presenting results through publications and other communication channels.

Partnerships

The Associate Research Scientist (Marine Radioactivity) works with staff of the RML and other laboratories of the Marine Environment Laboratories Division. In particular, he/she works closely with the RML Research Scientist, who is overseeing the MARiS database and collaborates with database and IT specialists in NAML. The Associate Research Scientist (Marine Radioactivity) also develops and maintains relationships with scientists and technical staff from Member State laboratories, particularly those involved in sea area monitoring projects and related research in Japan and in other areas of the world's oceans.

Functions / Key Results Expected

- Liaise with scientists and project officers from institutions involved in sea area monitoring and related research in Japan and in other areas of the world's oceans for the purpose of identifying and acquiring relevant marine environmental radioactivity datasets for inclusion in MARiS
- Retrieve marine environmental radioactivity datasets from technical reports, scientific publications and databases provided by collaborating institutions.
- Evaluate, verify, and validate such datasets and prepare them for import into MARiS.
- Contribute to the development of communication products (publications, charts, maps, data visualisations etc.) based on data available in the MARiS website
- In particular, in collaboration with NAML staff and Japanese partners, contribute to the development of communication products relevant to IAEA's Project on Marine Monitoring Data Quality Assurance in English and Japanese and targeted at public health authorities, scientists and the public.

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.

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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.
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Functional Competencies		
Competence	Occupational Role	Behavioural Indicator
Client orientation	Associate	Establishes effective relationships with clients to understand and meet or exceed their needs. Finds ways to ensure client satisfaction.
Judgement/decision making	Associate	Consults with supervisor/manager and makes decisions in full compliance with the Agency's regulations and rules.
Partnership building	Associate	Develops and maintains partnerships needed for his/her work. Establishes and nurtures positive relations with partners and stakeholders.

Expertise	
Expertise	Description
Environment Environmental Monitoring and Assessment	Knowledge of marine environmental radioactivity sampling, analysis and interpretation
Management and Programme Analysis Programme Management	Expertise in project management principles and practices
Administrative Support Data and Information Analysis and Reporting	Experience in data compilation

Education, Experience and Language Skills

- University degree in physics, radiochemistry, environmental sciences or equivalent.
- Minimum two years' relevant experience in environmental radioactivity measurement and/or modeling; or in the development and/or use of environmental information systems.
- Fluency in written and spoken English, with proven ability to write and edit reports as well as to make oral presentations. Working knowledge of French an asset. Knowledge of another IAEA official language (Arabic, Chinese, Russian or Spanish) an advantage.

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