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Job Description for Professional Posts

Reference: NA2024/70

Position and Grade:	Associate Data Curator, P2
Organizational Unit:	Nuclear Medicine and Diagnostic Imaging Section Division of Human Health
Duty Station:	Vienna
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 Human Health is organized into four sections whose objectives are to enhance the capabilities of Member States to address needs related to the prevention, diagnosis and treatment of health problems through the development and application of nuclear techniques within a framework of quality assurance.

The Nuclear Medicine and Diagnostic Imaging Section's primary objective is to enhance Member States' capabilities to use nuclear medicine and other imaging technologies efficiently, mainly, but not limited to cancer and cardiac diseases, and to undertake related basic and clinical research. To achieve those goals, special attention is given to the preparation of educational resources, guidelines and guidance documents.

Main Purpose

As a member of the Nuclear Medicine and Diagnostic Imaging Section team led by the Section Head, the Associate Data Curator contributes to the implementation of pillar 4 of the Zoonotic Disease Integrated Action Project (Zodiac), in particular to the radiomics, big data and artificial intelligence component. He / She will support coordinated research activities, contribute to the design of clinical research and the maintenance and management of metadata. He / She will not only contribute to the creation, management, and maintenance of big data, but also help in determining the best practices for working with that data. The Associate Data Curator uses visualization tools for the presentation of data and results of research projects as well as for other databases compiled in NMDI. The incumbent collaborates in drafting technical / scientific publications in the field of radiomics and allied disciplines as applied to the evaluation of patients with prevalent or emerging zoonotic diseases.

Role

The Associate Data Curator is: (i) a technical contributor in NMDI research activities devoted to the radiomics, big data and artificial intelligence component of Zodiac pillar 4; (ii) a contributor to the management, maintenance and definition of best practices of the big data collected on NMDI Zodiac-

related projects; (iii) a collaborator, supporting the drafting of scientific publications and technical documents; and (iv) a contributor to the cost-effectiveness analysis of NMDI Zodiac activities in particular research.

Partnerships

The Associate Data Curator maintains collaborative relationships with colleagues in the section and with other IAEA professionals, including staff working in other sections of the Division of Human Health and divisions of the Department of Nuclear Sciences and Applications, as well as other departments. He/she interacts with data scientists, data analysts, nuclear medicine and radiology professionals in Member States involved in research activities and provides feedback for quality improvement.

Functions / Key Results Expected

- Provide technical input for the processes of collecting data, including DICOM images, from diverse sources and integrating it into repositories.
- Assist the team on the management of research-related big data / databases / datasets as well as others collected by the NMDI Section.
- Provide support and input to the digital curation of big data including maintaining, preserving, and adding value to digital research data.
- Contribute to organizing, describing, cleaning, enhancing, and preserving data collected by the NMDI Section.
- Contribute to drafting scientific publications and technical documents.

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**
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.

Expertise	
Expertise	**Description**
Clinical Epidemiology	Knowledge of and experience in acquiring, compiling, synthesizing, extracting and reporting information.
Biostatistics and Biometry	Experience in designing statistical analysis plans, and performing data analysis.
Clinical Practice	Proven clinical experience in patient management.
Health Economics	Knowledge of efficiency, effectiveness, value and behaviour in the production and consumption of health and healthcare.

Education, Experience and Language Skills

- University degree in library or information sciences (preferred), international development, or related fields.

- Minimum of two years of related working experience in data curation, research data documentation, research data archiving, research data publication and secondary use of research data.

- Knowledge of and interest in data curation, international development, and related fields.

- Excellent oral and written command of English. Knowledge of other official IAEA languages (Arabic, Chinese, French, Russian and Spanish) is an asset.