Job Description for Professional Posts

Reference: NE2024/04

Position and Grade:	Associate Application Developer, P2
Organizational Unit:	System Development and Support Nuclear Information Section Division of Planning, Information and Knowledge Management
Duty Station:	Vienna
Type/Duration of Appointment:	FT – JPO, 1 year

Organizational Setting

The Division of Energy Planning and Nuclear Information and Knowledge comprises the Planning and Economic Studies Section, Nuclear Knowledge Management Section, and the Nuclear Information Section. The Division is responsible for strengthening capacities in energy and nuclear power planning, building capacities to manage nuclear knowledge and provide knowledge management services to interested member states, and to procure and provide printed and electronic information in the area of nuclear science and technology.

The Nuclear Information Section (NIS) consists of the IAEA Library Unit, the INIS Unit and the Systems Development and Support Group. It fosters the exchange of scientific and technical information on the peaceful use of nuclear science and technology; increases awareness in Member States of the importance of maintaining efficient and effective systems for managing such information; provides information services and support to Member States and to the IAEA; and assists with capacity building and training.

Main Purpose

As a member of a team led by the Leader of Software Development and Support Group (SDSG), the Associate Application Developer provides support in the implementing, upgrading, and maintenance of the International Nuclear Information System (INIS) and Library applications.

Role

The Associate Application Developer is: (i) a team member, working collaboratively within the Software Development and Support Group (SDSG) to develop software solutions to meet customer needs and create and implement the source code of new applications; and (ii) a contributor, testing source code; evaluating existing applications, performing updates and drafting technical handbooks.

Partnerships

The Associate Application Developer will collaborate with cross-functional teams, adhere to established coding standards and best practices and contribute to the continuous improvement of the applications. This role offers an exciting opportunity to make a meaningful contribution to the advancement of INIS and Library applications, supporting the organization's goals in promoting sustainable development and global nuclear information management.

Functions / Key Results Expected

Under the supervision of professional staff, the Associate Application Developer will:

- Design, develop, test, and deploy additional features/components for INIS and Library applications to improve their performance and user experience.

- Analyse and visualize NIS data and usage statistics to facilitate the decision-making process.

- Create ad hoc requests and reports for the INIS Secretariat and Member States.

- Assist in harvesting and processing metadata from various electronic archives.

- Participate in INIS machine learning and thesaurus-related development projects to enhance the system's capabilities and effectiveness.

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**
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.
Commitment to continuous process improvement	Associate	Identifies opportunities for process, system and structural improvement as well as improving current practices, increasing effectiveness, and

		achieving efficiency gains. Actively supports the application of sound quality management standards and process improvement.
Client orientation	Associate	Establishes effective relationships with clients to understand and meet or exceed their needs. Finds ways to ensure client satisfaction.
Knowledge sharing and learning	Associate	Actively seeks opportunities to learn by formal and informal means; learns from others, adopting and sharing best practice.

Expertise	
Expertise	**Description**
Information Technology| Computer Programming	Ability to investigate operational requirements and propose effective IT solutions aimed at improving business processes and systems.
Information Technology| Software Development	Ability to specify user/system interfaces and processing rules, as well as translating logical designs into physical designs and computer code.
Information Technology| Software Engineering	Expertise in designing IT solutions using modern software engineering methodologies and tools.

Education, Experience and Language Skills

- University degree in Computer Science, Software Engineering, Management Information Systems (MIS) or a related field.

- Minimum two years of relevant experience.

- Experience in web technologies (HTML, CSS), programming languages (C#, Python, JavaScript), frameworks (.NET, Bootstrap, React, Vue), and database management systems (MSSQL Server) highly desirable.

- Familiarity and/or certification in one of the following areas Web Design, Graphic Design, Machine Learning/Deep Learning, and Search Engine Optimization (SEO) is an asset.

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