Position Review

Position Number	190624	Position Type	CFE/JPO	Subject to Radiation	No		Subject to GD	No
Hyperion Position Number	R0128	Fund Type	EBR	Parent Position	018456|Team Leader (SGTS-EDM)|10			
Organization	SGTS-Equipment Data Management Team	FTE	1	CCOG 1	1A05E			
Grade	P2	Duty Station	Vienna, Austria	CCOG 2				
Classified Grade		Position Title	Associate Equipment Data Management Engineer	Proposed New Title				
Master Version	1	Master Status	Approved	Approval Date	2019-01-24			
Position Version	1	Position Status	Not Initiated	Approval Date				

Job Description Review

Organization Settings

The Department of Safeguards carries out the IAEA's duties and responsibilities as the world's nuclear inspectorate, supporting global efforts to stop the spread of nuclear weapons. The primary role of the Department is to develop and implement IAEA safeguards to ensure that there is no diversion of declared nuclear material from peaceful activities and no indications of undeclared nuclear material or activities in a State as a whole.

The Department comprises nuclear safeguards inspectors, responsible for carrying out inspections and verifications of all-safeguards relevant information for nuclear facilities in over 180 States; and technical staff responsible for a wide range of activities including: developing concepts and approaches for implementing safeguards; developing and maintaining safeguards equipment; providing analytical and laboratory services for sample analysis; collecting, evaluating and analysing safeguards-relevant information; providing information and communication technology infrastructure and services; and providing programme coordination support.

The Division of Technical and Scientific Services ensures the provision of state-of-the-art equipment and related expertise for the accomplishment of the Department of Safeguards activities. Within this mandate, the Division is responsible for procurement, testing, provision, inventory control, performance monitoring and maintenance of safeguards equipment and supplies required by SGO Divisions; management of equipment development and engineering activities to meet quality and safeguards requirements; development and provision of documentation, procedures, instrumentation methods and techniques; provision of specialized technical and scientific support to inspectors and inspection activities in the field and at headquarters; and, radiation contamination monitoring of returned equipment and timely write-off of obsolete or contaminated equipment. The Division also coordinates departmental health and safety activities.

Main Purpose

Under the supervision of the Team Leader, the Associate Equipment Data Management Engineer leverages networking expertise and application development skills to program remote data transmission software, to document current RM software, and to install and upgrade remote data transmission systems in the field.

Role

As an active member of the team, the Associate Equipment Data Management Engineer is a substantive contributor, (1) developer, performing relevant software engineering

disciplines as a member of a team; (2) resource for the team, taking part in various activities as required, such as quality assurance, documentation and continuous process improvements.

Partnership

The Associate Equipment Data Management Engineer works closely with the staff of SGTS-TSI and the other members of the SGTS on the development, monitoring, and improvement of the remote data transmission infrastructure and on enhancing the efficiency of daily data transfers where possible. He/she provides support to the Operations Divisions as needed and shares technical information with external technical contacts such as Member State representatives, facility staff and vendors. Additionally, he/she liaises with States' R & D organizations and with commercial equipment developers and manufacturers to plan future systems.

Functions / Key results Expected

Maintain remote data transmission systems to improve communications and data transfers from remote facilities.
Carry out requirements analysis and design of software systems and develop custom applications for remote and secure data transfers, monitoring, and state of health (SoH) analysis.
Design, test and implement various network configurations, using the latest firewall, VPN (virtual private network), routing techniques etc., to enhance the existing TCP/IP-based remote data transmission infrastructure.
Ensure the reliability and availability of safeguards remote monitoring data repositories on a 24/7 basis and ensure that the system meets the performance criteria.
Provide expert advice and support to Operations Divisions, including the provision of field support during inspections and instruction on the use of instruments, methods and techniques, and writing network/system operation procedures.

Generic JD Remarks

Competencies

Core Competencies

Competency	Occupational Role	Definition
Communication	Individual Contributor	Communicates orally and in writing in a clear, concise and impartial manner. Takes time to listen to and understand the perspectives 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

Competency	Occupational Role	Definition
Client orientation	Associate	Establishes effective relationships with clients to understand and meet or exceed their needs. Finds ways to ensure client satisfaction.
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.

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	Asset
Information Technology|Network Engineering	Networking knowledge to include TCP/IP, routing protocols.	N
Information Technology|Network Security	Networking knowledge to include VPN, firewalls, telecommunications, and IT security techniques. (Asset)	N
Information Technology|Software Development	Design, test, and implement software for remote monitoring data transfer systems. Experience in SQL DB, Web programming (Javascript, HTML/HTML5, ASP.NET) and desktop programming (UWP/WPF, XAML, C#) preferred.	N
Information Technology|Software Engineering	Thorough understanding of software engineering processes, knowledge of mobile operating systems, applications development and programming custom desktop/server user applications.	N

Position Specific FC	Occupational Role	Definition

Position Specific Expertise	Description	Asset

Languages

Languages	Asset Languages
English	Arabic Chinese French Russian Spanish

Qualification

Qualification Title	Description
Bachelor's Degree	University degree in Information Technology or Computer Science

Experience

Minimum of 2 years experience in IT-related projects with high technical content.
Software development experience in Java and C# programming environments.

Job Description Remarks