



Job Description Print Report

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Position Review

Position Number	059433	Position Type	CFE/JPO	Subject to Radiation	No	Subject to GD	No
Hyperion Position Number		Fund Type	EBR	Parent Position	018456 Team Leader (SG-RMT) 7		
Organization	SGTS-Remote Monitoring Team	FTE	1	CCOG 1	1B07B		
Grade	P5	Duty Station	Vienna, Austria	CCOG 2			
Classified Grade		Position Title	Remote Monitoring Expert	Proposed New Title			
Master Version	2	Master Status	Approved	Approval Date			
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Job Description Review

Organization Settings

The Department of Safeguards (SG) is the organizational hub for the implementation of IAEA safeguards. The IAEA implements nuclear verification activities for over 180 States in accordance with their safeguards agreements. The main objective of the Department is to maintain and further develop an effective and efficient verification system in order to draw independent, impartial and timely safeguards conclusions, thus providing credible assurances to the international community that States are in compliance with their safeguards obligations. Safeguards activities are undertaken within a dynamic and technically complex environment including advanced nuclear fuel cycle facilities and complemented by the political and cultural diversity of the countries.

The Department of Safeguards consists of six Divisions: three Operations Divisions for the implementation of verification activities around the world; three Technical Divisions (Division of Concepts and Planning, Division of Information Management, and Division of Technical and Scientific Services); and three Offices (the Office for Verification in Iran, the Office of Safeguards Analytical Services and the Office of Information and Communication Services).

Within the Office of the Deputy Director General, Head of the Department of Safeguards, the Section for Safeguards Programme Coordination serves as the principal advisory body in support of the entire management of the Department including formulation and execution of departmental management policies and procedures. The Section provides internal coordination and support in the areas of programme and budget, human resources, performance monitoring, effectiveness evaluation, communication, reporting and project support.

The Division of Technical and Scientific Services (SGTS) is responsible for measurement systems applied in safeguards verification activities, containment and surveillance

techniques and all verification logistics.

The Systems Integration and Coordination Section (TSI) comprises three teams (technical units): Project Engineering; Remote Monitoring and Seals. This Section acts as the Division's focal point for broad based support needed by the Operation Divisions in instrumentation data processing and review, remote data collection, development and application of sealing, containment and instrument security technologies, as well as Project Management and System Integration support. The Section is also responsible for maintenance, enhancement and quality assurance of the divisional infrastructure.

Main Purpose

Under the supervision of a Team Leader, the Remote Monitoring Expert leverages his/her broad understanding of networking expertise and application development skills to program remote monitoring software, to improve the remote monitoring infrastructure, and to install and upgrade remote monitoring systems in the field.

Role

The Remote Monitoring Expert plays several roles in the Team: (1) developer, performing relevant software engineering disciplines either as a leader or a member of a team; (2) network engineer, initiating, planning, executing and controlling agreed work; (3) resource for the Team, taking part in various activities as required, such as quality assurance and continuous process improvements, (4) a liaison, as appropriate, with representatives of other safeguards divisions, IAEA departments and Member States on issues of his/her expertise; and (5) a technical expert in providing safeguards training with the provision of course material and presentations.

Partnership

The Remote Monitoring Expert advises the Team Leader, senior management, and members of the RM Team on the development, monitoring, and improvement of the remote monitoring 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. He/she mobilises Member States efforts through support programmes to jointly work on the projects to develop new technologies. Additionally, he/she liaises with States' R & D organizations and with commercial equipment developers and manufacturers to plan future systems.

Functions / Key results Expected

To ensure high performance of the RMT and quality of its deliverables, the Expert contributes essential expertise to:

Serve as a technical lead in the development of a unique Safeguards equipment data review software project. Provide technical direction to a team of SG specialists including physicists, programmers, engineers, and outside consultants while interfacing with senior Operations inspectors.

Carry out requirements analysis, design of software systems, and develop custom applications for a fully featured inspector review program, capable of analysing data from all major safeguards equipment data sources.

Carry out requirements analysis, 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 monitoring infrastructure.

Provide authoritative technical expertise and advice concerning Safeguards equipment review programs issues and insight into future directions. Offers innovative

ideas to team leader and senior operations inspectors on future enhancements for the all-in-one review application.

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	Specialist	Helps clients to analyse their needs. Seeks to understand service needs from the client's perspective and ensure that the client's standards are met.
Judgement/decision making	Specialist	Consults with supervisor/manager and takes decisions in full compliance with the Agency's regulations and rules. Makes decisions reflecting best practice and professional theories and standards.
Technical/scientific credibility	Specialist	Ensures that work is in compliance with internationally accepted professional standards and scientific methods. Provides scientifically/technically accepted information that is credible and reliable.

Expertise

Expertise	Description	Asset

Position Specific FC

Position Specific FC	Occupational Role	Definition

Position Specific Expertise

Position Specific Expertise	Description	Asset

Languages

Languages	Asset Languages
English	Arabic Chinese

	French Russian Spanish
Qualification	
Qualification Title	Description
Master's Degree	Advanced University (or equivalent) degree in information technology, computer science, or related field.
Experience	
<p>A minimum of ten years of working experience including at least five years in programming in a complex network environment, preferably in an international organization.</p> <p>Networking experience to include extensive knowledge of TCP/IP, routing protocols, VPN, firewalls, telecommunications, and IT security techniques.</p> <p>Practical experience in producing functional specifications and in formulating solutions to meet user requirements.</p> <p>Fluency in English essential. Knowledge of German is preferable. Knowledge of other UN languages (Arabic, Chinese, French, Russian or Spanish) is desirable.</p> <p>Technical expertise:</p> <p>Thorough understanding of software engineering processes and the software engineering life cycle.</p> <p>Disciplined, methodical approach to requirements analysis and system design. Practical experience in the integration of applications is an asset.</p> <p>Thorough knowledge of Web programming (Javascript, PHP, PERL, HTML) and knowledge of one or more of C/C++/C#, Java, XML, OScript.</p> <p>Knowledge of relational database management software (e.g. SQL Server) and SQL.</p> <p>Customer/user orientation: ability to focus on customer/user needs and satisfaction.</p> <p>Strong communication skills, including the ability to prepare software-related documentation.</p> <p>Good organizing skills to work simultaneously on different projects.</p> <p>Strong interpersonal skills with the ability to work effectively in multidisciplinary/multicultural teams with sensitivity and respect for diversity.</p>	
Job Description Remarks	