



Job Description Print Report

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Position Review

Position Number	Position Type	CFE/JPO	Subject to Radiation	No	Subject to GD	No
Hyperion Position Number	R0005	Fund Type	EBR	Parent Position	008680 Project Engineer (PET) 5	
Organization	SGTS-Project Engineering Team	FTE	1	CCOG 1	1B07B	
Grade	P5	Duty Station	Vienna, Austria	CCOG 2		
Classified Grade		Position Title	Senior Project Engineer	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		
As a team member reporting to the Team Leader, the Senior Project Engineer develops conceptual designs for safeguards systems, and carries out peer review for technical designs of subsystems. He/She provides expert advice on integration methodologies and best practices, ensures that all system interface definitions for the various technical subsystems are in place, and ensures that performance of the integrated systems is consistently reliable.		
Role		
The Senior Project Engineer is: (1) A coordinator of various technical disciplines within SGTS (e.g., Seals, Surveillance, Unattended Monitoring, and Remote Monitoring) to provide a common interface with the Operations Directorates when designing new safeguards installations and when upgrading existing installations; (2) a Systems Engineer who reviews the system designs for very complex process facilities (i.e. EPGR, J-MOX) and provides relevant, specific information to the technical disciplines as necessary to ensure a smooth, coherent installation or upgrade; (3) An innovative Project Engineer who finds novel solutions to track work that is performed and managed by PET, and to inform senior management within the Department; and (4) a project coordinator who drafts or updates project documentation as necessary for proper project management.		
Partnership		
As a member of the Project Engineering Team, the Senior Project Engineer provides best practices guidance and/or support to SGTS project leads for assigned tasks. The incumbent coordinates his/her work with other teams of the Section and Division, and with other Divisions within the Department of Safeguards. The incumbent will also liaise with the Offices of Procurement and Legal Affairs, with senior IAEA staff, Member State Support Programme staff, and facility operators.		
Functions / Key results Expected		
For assigned facility tasks, the incumbent will:		
<ol style="list-style-type: none"> 1. Work with Operations to properly define systems integration goals for large/complex facilities, and identify technical expertise necessary for development, testing and implementation of specific functions/subsystems. 2. Catalogue all infrastructure requirements for the subsystems, provide reports on this for transmission to both the project manager and facility operator, and track any changes in the requirements. 3. Ensure that the initial performance of the integrated system meets the defined requirements, and that all needed corrective actions are performed. 4. Ensure that proper closeout practices are followed by all project team members. This would include the development of system documentation, maintenance plans, and training materials for both end users and designated maintenance staff. 		
Analogous functions will be performed by the incumbent for assigned instrument or software development tasks		
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
Management and Programme Analysis Project Management	Demonstrated expertise in Project Management (PM), and the use of PM tools. Familiarity with formal project management principles as described by PRINCE2 or PMI required.	N
Other Technical Engineering Engineering and Technology	Demonstrated expertise in managing technical projects using a systems engineering approach. Demonstrated experience in performing technical needs and requirements analysis, and providing appropriate technical solutions to meet the needs of the end user.	N
Physics Nuclear Instrumentation	Demonstrated expertise in developing, testing and implementing instrumentation systems.	N
Safeguards Containment and Surveillance	Experience in the implementation of Containment and/or Surveillance systems, similar to those used in Safeguards applications.	Y
Safeguards Non-destructive Assay	Experience in the implementation of NDA systems, similar to those used in Safeguards applications.	Y
Position Specific Expertise	Description	Asset
Languages		
Languages	Asset Languages	
English	Arabic Chinese French Russian Spanish	
Qualification		
Qualification Title	Description	

Master's Degree	Advanced university degree (Master's degree or equivalent) in Physics, Nuclear Engineering, or other related field is required. <u>A first-level university degree in combination with two additional years of qualifying experience may be accepted in lieu of the advanced university degree.</u>
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Experience

A minimum of 10 years relevant working experience in all of the required expertise listed above, of which includes a minimum of 3 years of work experience in managing technical projects using a systems engineering approach.

Strong interpersonal skills with the ability to work effectively and efficiently on multiple projects simultaneously, in multidisciplinary/multicultural teams, with sensitivity and respect for diversity.

Strong communications and customer service skills, including the ability to prepare software-related documentation that meets the needs of end users.

Fluency in English is essential. Knowledge of other languages (Arabic, Chinese, French, Russian, Spanish or German) is desirable.

Job Description Remarks

Requisition

Contract Type		Expected Start Date		Duration		Mobility	
Fully Competitive Recruitment		Travel					

Approval History

Seq.	Name	Category	Status	Date
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