Job Description Print Report

Position Review

Position Number	TBD	Position Type	CFE/JPO	Subject to Radiation	Yes
Hyperion Position Number		Fund Type	EB	Parent Position	
Organization		FTE	1	CCOG 1	
Grade	P2	Duty Station	Vienna, Austria	CCOG 2	
Classified Grade		Position Title		Proposed New Title	Associate Instrumentation Engineer

Job Description Review

The Department of Safeguards is the organizational hub for the implementation of IAEA safeguards. The IAEA implements nuclear verification activities for some 180 States in accordance with their safeguards agreements. The safeguards activities are undertaken within a dynamic and technically challenging environment including advanced nuclear fuel cycle facilities and complemented by the political diversity of the countries.

The Department of Safeguards consists of six Divisions: three Operations Divisions: A, B and C, 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; as well as three Offices: the Office for Verifications in Iran, the Office of Safeguards Analytical Services and the Office of Information and Communication Services.

The Division of Technical and Scientific Services is responsible for nuclear and other measurement systems applied in verification activities, containment and surveillance techniques and all verification logistics.

The Section for Non Destructive Assay (TND) is responsible for development, testing, commissioning and provision of equipment for non-destructive assay (NDA) of nuclear materials; development, implementation and maintenance of respective methodologies to be applied by SG inspectors; provision of relevant training and/or expertise through direct participation in field measurements; providing relative methodological support to the section of unattended systems and other users.
The TND section comprises 2 teams, the NDA Instrument team which focuses on the provision of instrumentation for routine activities and the NDA Services Team which focuses on non-routine activities including direct support of inspectors in the field.
The section also coordinates review, identification, evaluation and testing of emerging innovative technologies, having potential for future safeguards applications.

Main Purpose

Reporting to the Section Head, and under the programmatic guidance of the Technology Foresight Specialist, the Associate Instrument Engineer will assist in the testing, evaluating and subsequently authorizing for inspection use, instrumentation focusing on Complementary Access, Design Information Verifications and Spent Fuel verification.

That mission is undertaken in support of the Department's efforts aimed at improving the effectiveness and efficiency of the Agency's capabilities to operate novel, advanced and emerging technologies to verify the correctness and completeness of declarations provided by Member States with emphasis on measurement technologies supporting detection of undeclared materials, facilities and activities.

Role

The Associate Instrument Engineer is (1); an *engineer,* testing and evaluating for specific instrumentation for selected safeguards usage, and; (2) a *technical writer,* developing and updating user requirements for safeguards instrumentation, equipment specifications, equipment test reports, equipment operational procedures and authorization reports.

Partnerships

The Associate Instrument Engineer works in close relation with the NDA technicians in the NDA Instruments Team to prepare and distribute equipment to inspectors on a routine basis.

The Associate Instrument Engineer will also interact intensively with the instrumentation final users, mainly inspectors from Divisions of Operation and the Office for Verification in Iran.

Functions / Key results Expected

- Timely deliver requested support with respect to testing and authorization of safeguards equipment, including documentation and reports.
- Contribute specialized expertise to the definition of user requirements, and to other elements related to the development and deployment of innovative instruments and measurement techniques, fulfilling needs requested by the Operation Divisions and agreed at the Department level.
- Manage, in coordination with the NDA Instruments Team, the transition of instrumentation for Complementary Access and Design Information Verification form experimental and evaluation to routine production for inspection in the field.
- Prepare quality controlled technical documents, testing, calibration and operational procedures for equipment, as well as trip reports detailing the results of field testing on instrumentation.
- Maintain and further develop the knowledge management database used in the technology evaluation process.

Competencies

Core Competencies

Competence	Level	Behavioral Indicator
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	Level	Behavioral Indicator
Analytical thinking	Associate	Gathers and analyses information, identifying critical relationships and patterns among data and proposes workable solutions.
Knowledge sharing and learning	Associate	Actively seeks opportunities to learn by formal and informal means; learns from others, adopting and sharing best practice.
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

Administrative Support|Data and Information Analysis and Reporting	Proficient use of the MS office suite to evaluate data and develop reports and presentations
Administrative Support|MS Office (Word, Excel, Outlook, PowerPoint)	Evaluate and organize numerical data. Prepare clear and concise technical reports

Position Specific Expertise	Description

Languages

Languages
English

Asset Languages
Arabic
Chinese
French
Russian
Spanish

Qualification

Qualification Title	Description
Bachelor's Degree	University degree in, Mathematics, Physics, Engineering and other technical or scientific relevant field of expertise .

Experience

- Hands-on experience with instrumentation testing and evaluation
- Experience with agile methodologies. and systemic engineering practices
- Knowledge in programming, and database design.
- Experience with documenting experimental results and producing operational documentation for instruments.
- Experience in developing and implementing technology evaluation tasks will be an asset.
- Experience in 3D hardware design will be an asset.

Job Description Remarks

Requisition

Contract Type	Fixed Term - Regular	Expected Start Date	2016-09-01	Duration	36
Fully Competitive Recruitment		Yes	Travel	Yes, 25 % of the Time	