IAEA

Job Description Print Report

Position Review

Position Number	160112	Position Type	CFE/JPO	Subject to Radiation	No		Subject to GD	No
Hyperion Position Number		Fund Type	EBR	Parent Position	006921 |Team Leader (Environmental Sampling) |6			
Organization	SGIM-Nuclear Fuel Cycle Analysis Section	FTE	1	CCOG 1	1M02			
Grade	P2	Duty Station	Vienna, Austria	CCOG 2				
Classified Grade		Position Title	Associate Data Evaluation Officer	Proposed New Title				
Master Version	1	Master Status	Approved	Approval Date	2020-01-17			
Position Version	3	Position Status	Approved	Approval Date	2020-01-17			

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 Information Management (SGIM) implements state of the art methodologies and techniques for the collection, processing and analysis of a range of safeguards-relevant information, including declarations submitted by States, evaluations resulting from the analysis of samples or measurements collected during infield activities, and information from open sources, including nuclear trade-related data and satellite imagery. Staff perform data validation and complex information analysis and evaluation to support infield activities and provide key input to the State evaluation process.

Main Purpose

As a team member reporting to the Team Leader, the Associate Data Evaluation Officer contributes to the design and development of methodologies by analysing, researching, monitoring and reporting on relevant safeguards data and methodologies, including sampling methodologies.

Role

The Associate Data Evaluation Officer is: (a) an analyst, reviewing and evaluating State declared and inspectors' verification and sample analysis data; and (b) a researcher, testing

and reporting on the results of evaluation methodologies.

Partnership

The Associate Data Evaluation Officer collaborates with staff members within the Section and staff in other Sections and Divisions in order to resolve inconsistencies in data, ensure adequate follow-up, clarify methodological and procedural aspects and, if necessary, deliver presentations.

Functions / Key results Expected

Contribute to the development and testing of methodologies for evaluating safeguards data, for example, environmental samples, sampling procedures, verification schemes, and the evaluation thereof in terms of quantifying detection probabilities and meeting technical objectives and verification goals.

Prepare documents and calculations supporting environmental sampling, uncertainty quantification, material balance and nuclear material flow evaluations.

Research and recommend analysis methodologies.

Draft presentations and documents for conferences and training courses.

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
Analytical thinking	Associate	Gathers and analyses information, identifying critical relationships and patterns among data and proposes workable solutions.
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.
Judgement/decision making	Associate	Consults with supervisor/manager and makes decisions in full compliance with the Agency's regulations and rules.

Expertise		
Expertise	Description	Asset
Information Technology | Computer Programming	Experience in statistical/mathematical software programming.	Y
Safeguards | Environmental Samples Results Evaluation	Experience of particle and bulk environmental sampling methodologies.	Y
Safeguards | Uncertainty Quantification	Experience in quantifying uncertainties of NDA and DA verification measurements.	Y
Statistics | Advanced Statistical Methods	Experience of statistical methods applied in analysing safeguards data.	Y

Languages	
Languages	Asset Languages
English	Arabic Chinese French Russian Spanish

Qualification	
Qualification Title	Description
Bachelor's Degree	University degree in mathematics, statistics, physics, chemistry, engineering or a related field.

Experience

Minimum of two years of relevant experience, with at least one year of experience in the statistical analysis of measurement data or environmental sample evaluations.

Demonstrated ability to prepare report abstracts and draft summary documents.