

Job Description Print Report

Position Review										
Position Number		Position Type		Subject to		Subject to GD				
				Radiation						
Hyperion		Fund Type	EBR	Parent Position	127688 Team Leader (SGIS-CIT)	4				
Position Number				= SUPERVISOR						
Organization	SGIS-Core	FTE	1	CCOG 1						
	Infrastructure Team									
Grade	P4	Duty Station	Vienna, Austria	CCOG 2						
Classified Grade	P4	Position Title	Linux Systems Engineer	Proposed New						
				Title						
Master Version		Master Status		Approval Date						
Position Version		Position Status		Approval Date						

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 Department of Safeguards, the Office of Information and Communication Systems (SGIS) is the centre of competence for the specification, development and maintenance of Information and Communication Technology (ICT) systems and for the management of all ICT infrastructure and services to support safeguards. In partnership with other organizational entities, SGIS is responsible for planning and implementing an ICT strategy as well as enforcing ICT standards.

The Infrastructure Section (IS) is responsible for providing secure, reliable, and dependable computing, collaboration, database and communications services to the Department of Safeguards. The Infrastructure Section cooperates with other Sections and Divisions in the Department of Safeguards to deliver IT services at a very high standard. Reporting to the Infrastructure Section, the Core Infrastructure Team (CIT) is responsible for the planning, management, operation, design, and monitoring of the core IT infrastructure that provides the Department with highly available and secured information. The core ICT infrastructure includes all Safeguards networks and systems in Vienna, Tokyo, Toronto, Rokkasho and Seibersdorf, remote access, IT security infrastructure, digital storage, server, hypervisor, hyper-converged infrastructure, local area networks, wide area networks, operating systems, and data centre operations. Additionally, CIT is responsible for ensuring that ICT infrastructure services are efficiently delivered to the

Department of Safeguards and that delivery processes and tools are automated, secure, reliable and documented.

Main Purpose

As a team member reporting to the Core Infrastructure Team Leader, the Linux Systems Engineer applies technical knowledge in the establishment, design, development, implementation and operations of Department of Safeguards Linux based servers and applications. This is achieved by acting as a technical lead for projects and providing technically-sound support to enhance and maintain Safeguards Linux based systems, with the objective of achieving highly reliable, well performing, and secure systems. He/she uses automation and development skills to create and automate processes to consistently deliver and support Linux based IT services in accordance with the Department's agile-based solution development methodology. He/she plays a significant technical role in supporting and developing and providing platforms for Artificial Intelligence, Machine Learning and Integration oriented projects within the Department of Safeguards. Furthermore, the Linux System Engineer helps data scientists in provisioning of connected data sources ensuring compliance to data governance and security standards.

Role

The Linux Systems Engineer is: a technical specialist, designing, implementing, establishing processes and supporting in-house developed information systems and standard server-based services; a Linux based systems expert, providing advice to management on establishing secure Linux based systems and best practices; an implementer, establishing, defining, and executing infrastructure projects and security solutions; and functioning as an expert in troubleshooting systems issues and ensuring excellence in IT service delivery.

Partnership

The Linux Systems Engineer collaborates extensively with SGIS staff and other IT and technical professionals to provide technical expertise and solutions pertaining to the Department's server, network and information systems infrastructure, works with teams across the Department and the Agency to facilitate Linux based needs in support of the Department of Safeguards activities. The Linux Systems Engineer collaborates with external vendors and product suppliers on new information and technical specifications to evaluate and assess suitability of the products as well as on the project implementation and operation. The Linux System Engineer also collaborates with data scientists from other departments and helps them in integrating their machine learning models with existing data sources.

Functions / Key results Expected

Provide expert planning, architecture, design, implementation and operations of Linux based systems in a Hyperconverged, virtualized multi-site environment with emphasis on supporting Artificial Intelligence and Machine Learning oriented, and GPU intensive applications.

Proactively assess, propose, design, conduct proof of concepts and pilot projects for highly available solutions and optimizations that can bring benefit to the operations and security of the Department's Linux systems with emphasis on high-availability, business continuity and disaster recovery.

Guide, support and coordinate contractors and other engineering professionals in system architecture design, change implementation, daily operations and troubleshooting.

Proactively implement and operate all existing and new Linux systems and related components to ensure software, hardware and architectural compatibility with respect to the Department's security, operational, availability and life cycle requirements and policies.

Ensure the confidentiality, integrity and availability in both Linux system design and operations in collaboration with the Department's IT security team and provide expert insight to support security and operations specialists as part of an incident response team.

Create and maintain architectural, operational and inventory documentation and coordinate procurement activities related to the Department's Linux system infrastructure, including maintenance, support and warranty.

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.				
TeamworkIndividual ContributorActively 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							
ompetency Occupational Role			Definition				
Client orientation Associate			Establishes effective relationships with clients to understand and meet or exceed their to ensure client satisfaction.	needs. Finds ways			
Commitment to continuous process Associate			Identifies opportunities for process, system and structural improvement as well as imp practices, increasing effectiveness and achieving efficiency gains. Actively supports the 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 (drop down list) Description (fr			ree text field)	Asset			
Information Technology Systems Engineering Expert knowledg			ge of Linux systems and associated technologies and concepts including hypervisor d operations, AI and ML application support and GPU management.	N			
			ge of database technology and data integration	N			

Position Specific FC	Occupatio	onal Role	le Definition				
Commitment to continuous process improvement	Specialist		Plans and executes activities in the context of quality and risk management and identifies opportunities for process, system and structural improvement, as well as improving current practices. Analyses processes and procedures, and proposes improvements.				
Technical/scientific credibility Specialist			Ensures work compliance with internationally accepted professional standards and scientific methods. Provides scientifically/technically accepted information that is credible and reliable.				
Desition Crossific Europtics		Description		Asset			
Information Technology Enterprise Exp			pert knowledge of Linux systems infrastructure, operations, architectures, practices and				
InformationpoliciInformation Technology SystemsEnginEngineeringEngin			es eering of Linux systems, and information technology services				
Information Technology IT Disaster Exposu Recovery Frameworks design,			posure to IT systems and network infrastructure business continuity and disaster recovery (BC/DR) sign, implementation and operation.				
Information Technology Systems Engineering		Infrastructure					
Information Technology Systems Know Engineering			Knowledge of VMware based virtualisation platforms and the setup and operations of containers				
Languages							
Languages			Asset Languages				
English			Arabic Chinese French Russian Spanish				
Qualification (drop down list)		(Free text f	eld)				
Qualification Title Descriptio							
C 1			iversity degree in computer science, information systems or related field				
Bachelor Degree A first leve			university degree in computer science, information systems or other related field with 3 additional years of ofessional experience may be considered in lieu of the advanced university degree.				
			al certifications in Data Science				
Other		Professiona	certifications in Data Science				

Experience (free text to capture information not accommodated elsewhere – do not duplicate information in competencies or expertise	Experience (free te	xt to capture information not	accommodated elsewhere –	do not duplicate i	information in com	petencies or exi	pertise)
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At least 7 years of work experience as a Systems Engineer with at least 5 of those years supporting Linux systems Recent experience with configuring, updating, managing and monitoring Linux systems Experience with infrastructure foundations for VMware based virtualization platform

Experience with architecting and implementation of business continuity and disaster recovery

Experience with databases and other information systems.

Experience with data science is an asset

Experience with containers is an asset.

Job Description Remarks

Requisition									
Contract Type		Expected Star	rt Date		Duration	Ν	Mobility		
Fully Competitive Recruitment Travel									
Approval History									
Seq.	Name		Category					Status	Date