



## Job Description

## DevOps Engineer (SGIS)(P3) - (2018/0306 (179398))

Organization SGIS-Systems Engineering Team

Primary Location Austria-Vienna-Vienna-IAEA Headquarters

Posting Date 2019-05-23, 8:43:52 AM

Closing Date 2019-07-04, 10:59:00 PM

Duration in Months: 36

Contract Type: Fixed Term - Regular

Probation Period: 1 Year

**This is a re-opening of the vacancy. Candidates who already applied do not need to re-submit an application.**

### Organizational Setting

The Department of Safeguards (SG) 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 Verification in Iran, the Office of Safeguards Analytical Services and the Office of Information and Communication Services.

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. The departmental operating environment is interactive, participative and dynamic with continuous inputs received from the Board of Governors, the General Conference, policy- and decision-makers, as well as counterparts in Member States and in the international development community.

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 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.

### Main Purpose

Reporting to the Team Leader, Systems Engineering, the DevOps Engineer is responsible for ensuring that software products and services are delivered as quickly and with as few defects as possible to the Department of Safeguards. The DevOps Engineers serves as the systems deployment, availability, and performance monitoring engineer for the Department of Safeguards information systems and is a key focal point for the continuous improvement to the processes, tools, and skills required to deliver software products and ITC services to the Department of Safeguards.

### Role

The DevOps Engineer is: 1) a technical specialist, designing, implementing, and improving application, service, infrastructure, and systems delivery and monitoring solutions; 2) a specialist adviser, providing input and instrumentation for product development teams and systems engineers for deploying, automating, instrumenting, testing, and monitoring of performance, availability, and accounting within applications and services; 3) an adherent to the philosophy of continuous improvement, defining, planning and executing projects and contributing the project planning and resource estimation; 4) a solution provider, functioning as an expert in designing, creating, deploying, troubleshooting, optimizing, automating, and performance tuning information system issues and reporting on issues, performance indicators, and trends in IT service management metrics 5) a collaborator, who can establish deep and beneficial partner relationships with other IT service delivery and development teams to drive the DevOps strategy into more areas of the Department's work.

### Functions / Key Results Expected

#### Continuous Delivery of Products and Services

- Automate all aspects of system and software delivery and provisioning with configuration and management tools.
- Continuously improve all aspects of the technology, tools, and processes around delivery, release, and integration of software and systems to end users as quickly as possible and with as few defects as possible.
- Maintain and constantly improve the software and systems development and delivery environment, source code repositories, developer environment, developers' tools, and pipeline capabilities into the build and release cycle.
- Create fully automated and continuous configuration management solutions, preferably relying on PowerShell, Chef or other leading technologies.

#### Continuous Monitoring and Performance Management

- Design, deploy, and manage tools and processes to improve the monitoring of information systems and services, paying special attention to automating the provisioning of instrumentation, packaged software, custom-developed software solutions, and all the necessary resources as required by centralized systems. Create alerts related to application performance.
- Create alerts related to application performance for support personnel and product teams that are actionable, while producing as few distractions as possible.

#### Continuous Improvement of Processes, Standards, Software, and Systems

- Support quality control activities and provide solutions to automations such as testing software or configuration management solutions. Assess products and tools for inclusion into infrastructure systems and software products. Improve the release of products to ensure that Agile concept to deploy products at will.
- Make provisions for training, provide documentation for software release, performance, availability monitoring etc.

### Competencies and Expertise

#### Core Competencies

Name	Definition
Planning and Organizing	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.
Communication	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	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	Actively contributes to achieving team results. Supports team decisions.

#### Functional Competencies

Name	Definition
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Client orientation	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.
Commitment to continuous process improvement	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	Ensures that work is in compliance with internationally accepted professional standards and scientific methods. Provides scientifically/technically accepted information that is credible and reliable.

**Required Expertise**

<b>Function</b>	<b>Name</b>	<b>Expertise Description</b>
Information Technology	Change Management	Proven experience with automation of delivery with PowerShell, Chef, Jenkins or other automated configuration management.
Information Technology	Software Engineering	Demonstrated practical expertise with end-to-end build, release, and configuration in a Microsoft-based environment (WCF, HTML5, SQL server, IIS, Team Foundation Server, Release Manager, Git, .Net frameworks).
Information Technology	Systems Administration	Demonstrated proficiency in virtualization technology and tools and virtualized operating systems such as Microsoft Windows and Linux.

**Qualifications, Experience and Language skills**

- A university degree in computer science, information systems, or a technical degree related to information technology. Additional certifications relevant to the role functions will be considered an asset.
- A minimum of five years of relevant working experience in the areas of software development, build and deployment management for information systems of sufficient scale.
- Experience with automation of delivery with PowerShell, Chef, Jenkins, or other automated configuration management.
- Experience with end-to-end build, release, and configuration in a Microsoft-based environment (WCF, HTML5, SQL server, IIS, Team Foundation Server, Release Manager, Git, .Net frameworks).
- Experience with VMware and Docker virtualization technology.
- Excellent oral and written command of English. Knowledge of other official IAEA languages (Arabic, Chinese, French, Russian and Spanish) is an asset.

**Remuneration**

The IAEA offers an attractive remuneration package including a tax-free annual net base salary starting at **US \$59151** (subject to mandatory deductions for pension contributions and health insurance), a variable [post adjustment](#) which currently amounts to **US \$ 31173\***, dependency benefits, [rental subsidy](#), [education grant](#), [relocation](#) and [repatriation expenses](#); 6 weeks' annual vacation, [home leave](#), [pension plan](#) and [health insurance](#)

**Applications from qualified women and candidates from developing countries are encouraged**

Applicants should be aware that IAEA staff members are international civil servants and may not accept instructions from any other authority. The IAEA is committed to applying the highest ethical standards in carrying out its mandate. As part of the United Nations common system, the IAEA subscribes to the following core ethical standards (or values): [Integrity](#), [Professionalism](#) and [Respect for diversity](#). Staff members may be assigned to any location. The IAEA retains the discretion not to make any appointment to this vacancy, to make an appointment at a lower grade or with a different contract type, or to make an appointment with a modified job description or for shorter duration than indicated above. Testing may be part of the recruitment process