



## JOB DESCRIPTION

### Post Details:

Post Title:	<b>Engineer (SOA-Container)</b>	Organisational Element: NISC
		Job Family: NCIA - Digital Backbone Engineering
Rank/Grade:	G15	
Military/Civilian:	Civilian	Location: Braine L'Alleud, BEL

### Organisation context:

This is a position within the NATO Communications and Information Agency (NCIA), an organization of the North Atlantic Treaty Organization (NATO).

To strengthen the Alliance through connecting its forces, the NCI Agency delivers secure, coherent, cost effective and interoperable communications and information systems in support of consultation, command & control and enabling intelligence, surveillance and reconnaissance capabilities, for NATO, where and when required. It includes IT support to the Alliances' business processes (to include provision of IT shared services) to the NATO HQ, the Command Structure and NATO Agencies.

### Organisational Element Statement of Functions:

The NATO Infrastructure Service Centre (NISC) Business Area Lead (BAL) is accountable for planning and executing the full lifecycle management activities (design, transition and operations) for the identified area of responsibility.

NISC provides generic, domain independent, technical functionality that enables and facilitates the operation and use of Information Technology resources. NISC services (including: subject matter expertise, acquisition, project management, operations and maintenance, and, disposal) are provided in the following technical domains: Network Services (to include routing, switching and transmission services), infrastructure hosting, storage and processing, infrastructure networking, HW and SW management, databases and web platform services, as well as identity management. Services, are provided throughout the lifecycle to both internal and external customers in both static and deployable settings.

### Job role description:

We are seeking a highly skilled and motivated engineer to join our growing team. In this role, you will play a critical part in designing, implementing, and managing our Kubernetes infrastructure, ensuring the smooth and efficient operation of our containerized applications. You will be a key contributor to the evolution of our platform, driving innovation and automation to improve scalability, reliability, and performance.

**Duties and Responsibilities:**

Under the direction of Service Delivery Manager of Service Oriented Architecture and Identity and Access Management (SOA & IdM), the incumbent will perform duties such as the following:

- Architect and deploy highly available, secure, and scalable Kubernetes clusters on-premises or in the cloud.
- Collaborate with development teams to containerize applications and deploy them on Kubernetes, optimizing for resource utilization and performance.
- Champion and implement Infrastructure as Code (IaC) practices using tools like Terraform, Ansible, or Pulumi to manage and automate Kubernetes deployments and configurations.
- Establish robust monitoring and logging solutions using tools like Prometheus, Grafana, and ELK stack to ensure the health and performance of Kubernetes clusters and applications.
- Continuously analyze and optimize Kubernetes cluster performance, identifying and resolving bottlenecks and resource constraints.
- Implement security best practices and controls to safeguard Kubernetes clusters from threats and vulnerabilities.
- Diagnose and resolve complex issues related to Kubernetes and containerized applications, providing timely solutions to incidents and outages.
- Work closely with development, operations, and security teams to foster a collaborative environment and provide guidance on Kubernetes best practices.
- Keep abreast of the latest trends and advancements in Kubernetes and containerization technologies.

**Additional duties for this post:**

- Deputize for higher-grade staff, if required.
- Perform other duties as required.

**Education, Experience and Training (essential):**

**Education:**

A minimum requirement of a Bachelor's degree at a nationally recognised/certified University in a related discipline and 2 years post-related experience. Exceptionally, the lack of University degree may be compensated by the demonstration of a candidate's particular abilities or experience that is/are of interest to NCIA, that is at least 6 years extensive and progressive expertise in duties related to the function of the post.

**Experience:**

At least 2 years' experience in Kubernetes Orchestrator service management including below:

- Hands-on experience with Kubernetes in production environments, including designing, deploying, and managing large-scale clusters.
- Deep understanding of containerization technologies like Docker, Podman and container

orchestration principles.

- Experience with some of the major providers Rancher, Openshift, Tanzu, Docker.
- Experience with Infrastructure as Code tools like Terraform, Ansible, or Pulumi.
- Experience with monitoring and logging tools like Prometheus, Grafana, and the ELK stack.
- Experience with service meshes like Istio or Linkerd.
- Experience with HELM and CI/CD (ArgoCD/ GitOps )
- Proficient in scripting languages like Bash or Python for automation tasks.
- Strong communication and interpersonal skills with the ability to work effectively in a team environment.

**Training/Certifications:**

- ITIL Foundation Level Certification.

**Education, Experience and Training (desirable):**

**Education:**

- Sound knowledge on Kubernetes in production environments, including designing, deploying, and managing large-scale clusters.
- Knowledge of NATO responsibilities and organization, including ACO and ACT.
- Knowledge of NATO Service Contract policies inside Enterprise environment

**Experience:**

- Experience with Storage (Software Defined / Backend), S3 solutions, MinIO, Nooba etc.
- Familiarity with major cloud providers (AWS, Azure, GCP) and their Kubernetes offerings (EKS, AKS, GKE).
- Familiarity with major virtualization providers (VMware, Microsoft).
- Good understanding different agile delivery methodologies.
- Ability to manage multiple tasks and projects in a fast-moving environment, and to work in cross functional teams.
- Excellent analytical and problem-solving skills with the ability to diagnose and resolve complex technical issues
- Extensive knowledge of secure information systems
- Prior experience of working in an international environment comprising both military and civilian elements.

**Training/Certifications:**

- Holding ITIL Intermediate Level Certification.
- Certified Kubernetes Administrator (CKA)

- Certified Kubernetes Application Developer (CKAD)
- SUSE Certified Deployment Specialist (SCDS) in Rancher Kubernetes
- Red Hat Certified OpenShift Administrator
- VMware Certified Professional (VCP)
- AWS certifications such as AWS Certified Solutions Architect and MS Azure certifications such as Azure Solutions Architect Expert.

**Behavioural competencies:**

- *Deciding and Initiating Action* - Takes responsibility for actions, projects and people, takes initiative and works under own direction, initiates and generates activity and introduces changes into work processes, makes quick, clear decisions which may include tough choices or considered risks.
- *Relating and Networking* - Easily establishes good relationships with customers and staff, relates well to people at all levels, builds wide and effective networks of contacts, uses humour appropriately to bring warmth to relationships with others.
- *Delivering Results and Meeting Customer Expectations* - Focuses on customer needs and satisfaction, sets high standards for quality and quantity, monitors and maintains quality and productivity, works in a systematic, methodical and orderly way, consistently achieves project goals.

**Language:**

A thorough knowledge of one of the two NATO languages, both written and spoken, is essential and some knowledge of the other is desirable.

**NOTE:** Most of the work of the NCIA is conducted in the English language.