Job Description

DevOps Engineer

Position: DevOps Engineer

Reports to: Head of Unit, D team

Supervision of: N/A

Duty station: Germany/Norway/ (Remote in locations where NRC has a presence)

Travel: Low, 0-5% depending on workplan

Project number: Different ones (NOMX0001, NOIS0003, etc)

Duration and type of contract: Initially 12 months with possibility of extension

All NRC employees are expected to work in accordance with the organisation’s core values: dedication, innovation, inclusivity and accountability. These attitudes and believes shall guide our actions and relationships.

**Background:**

Data and technology are the fuel for decision making, process improvement and analysis within the humanitarian sector. The DevOps Engineer will be responsible for developing and maintaining technical solutions which will provide direct benefit to our staff and the people that we serve.

The main task will be to support the creation of an optimal development experience for various digital initiatives with a solid platform in Kubernetes-based cloud infrastructure. Your team will focus on:

* Be the technical expert to the ongoing development of new NRC projects for all DevOps subject (infrastructure’s resilience, security, performance, and cost-effectiveness)
* Perform the continuous improvement and SRE for legacy NRC projects

Working on some fast-moving and dynamic projects the position will directly impact NRC’s ability to improve the lives of millions of people in an ever-changing world.

1. **Role and responsibilities**

The DevOps Engineer will work closely with other members of NRC’s D Team (Digital Transformation Team) to understand automation opportunities, develop recommendations and tasks, co-implement NRC’s infrastructure (Backbone) and support other teams. The position will also contribute to providing strategic direction, development/security standards, DevOps training for other technical staff to improve and leverage overall development practice in NRC.

Generic responsibilities

1. Contribute to the design, delivery, and rollout of the cloud platform (Infrastructure as Code) and actively participate in shaping solutions and setting up plans.
2. Migrate NRC’s legacy applications to the centralised Kubernetes platform based in Azure.
3. Produce periodic documentation to share progress and learning.
4. Define and maintain Technical Devops Guidelines to be sure that news applications delivery respect all Best Practices Industry standards.
5. Actively participate in promoting and embodying a highly collaborative, dynamic work culture.
6. Ensure compliance and adherence to NRC's policies and procedures, especially in relation to information security and data protection standards.

Specific Responsibilities:

1. Maintain and upkeeping of NRC’s Kubernetes (Staging + Production) clusters – hosting global applications, including data backup and restore functions.
2. Write manifests and manage automated deployment of application stacks to NRC’s Kubernetes clusters with Infrastructure as Code concept.
3. Setup and maintain automated CI / CD workflows (Continuous integration & continuous delivery).
4. Prepare technical documentation and specifications on a regular basis.
5. Create unit test plans, contribute to functional/UAT test plans as needed.
6. Provide technical oversight of external consultants’ work that includes custom design and assist in handover of these to NRC (to ensure long-term ownership).
7. Support the recruitment of future NRC technical staff and support the evaluation of external technical consultants.
8. Perform data migration and other integration work in a safe and controlled environment – validating these actions before going to live (production) systems.
9. Communicate and represent NRC with partners, consultants, and service providers at a technical level.

Critical interfaces

By interfaces, NRC means processes and projects that are interlinked with other departments/units or persons. Relevant interfaces for this position are:

* Digital Transformation team members
* ICT Support and Operations teams
* ICT team across offices
* Field Operations teams
* Suppliers, consultants, and other external service providers
* Application owners and developers (internal and external)
* Peers from other organizations working on similar problems, particularly in the NetHope community
1. **Competencies**

Competencies are important for the employee and the organisation to deliver desired results. They are relevant for all staff and are divided into the following two categories:

1. Professional competencies

These are skills, knowledge and experience that are important for effective performance.

**Generic professional competencies for this position**:

* Proven experience with IT projects.
* Bachelor degree in computer science, software engineering, or related subjects, or demonstrable expertise in the field.
* Advanced analytical skills and problem-solving attitude.
* Excellent interpersonal and communication skills.
* Capable of operating in an "Agile" environment and high levels of uncertainty.
* Comfortable working remotely within a geographically distributed team.
* Fluency in written and spoken English. Other languages are an asset.
* Pro-active in keeping up-to-date with industry trends and innovation

**Context/Specific skills, knowledge and experience**:

* Working knowledge of automating infrastructure in a cloud environment, preferably Azure.
* Previous experience in working with infrastructure as code (Terraform) and service mesh (Istio): Ability to comfortably use and configure Istio Service Mesh features, such as:
	+ Authorization Policies
	+ Ingress and Egress gateways (with or without SNI proxy-)
	+ Request Authentication Policies
	+ Virtual services, Gateways
* Knowledge and implementation of containerization and container orchestration: We use Docker, Kubernetes, Kustomize, etc.
* Preferable skills in Cloud security and cloud network
* Application operations knowledge (Backups, monitoring, deployment) will come handy.
* Knowledge of one or more programming language (Go, Python, etc) and/or scripting language would be desired

2. Behavioral competencies

* **Analyzing:** Understands and sees problems from different angles; able to break down complex problems and connect the dots; considers contextual caveats and risks.
* **Planning and delivering results:** Takes initiatives and sees things through to completion; anticipates problems and solves them, can operate with little to no direction.
* **Coping with change:** Adopts a flexible and responsive mindset; comfortable with uncertainty; can adapt plans quickly.
* **Working with people:** A team player by nature; able to build bridges across silos; defaults to sharing and supports colleagues in achieving their goals; focuses on solutions rather than obstacles.
1. **Performance Management**

The employee will be accountable for the responsibilities and the competencies, in accordance with the NRC Performance Management Manual. The following documents will be used for performance reviews:

* The Job Description
* Work and Professional Development Plan
* The Mid-term/End-of-trial Period Performance Review Template
* The End-term Performance Review Template
* The NRC Competency Framework