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| **Senior Network Engineer** |
| **Location** | Amsterdam (NL), Cambridge (UK) |
| **Reports to** | Head of Network Evolution  |
| **Hours** | Full time  |
| **Contract** | This is a permanent role. |

**Purpose and Context**

The Senior Network Automation Engineer role within the GÉANT Operations department involves contributing to the team responsible for defining the medium to long-term direction of GÉANT's pan-European research and education E-Infrastructure, specifically in the areas of network automation and management.

As a key contributor to the long-term network automation strategy, you will collaborate with cross-functional teams to design solutions that enhance operational efficiency and future network capabilities. You will provide technical leadership, define best practices, and act as a subject matter expert in network automation. Leveraging tools such as Ansible, Python, and Bash, you will drive the implementation of automation systems while staying ahead of industry trends to recommend and adopt emerging technologies.

Additionally, the role involves presenting technical designs and evaluations, attending global research and education (R&E) conferences, and influencing best practices within GÉANT and the wider community. Through these contributions, you will play a vital role in shaping the future of network management and automation at GÉANT.

**Role Accountabilities**

* Lead the design, development, and deployment of network automation solutions ensuring these solutions meet the operational requirements while being scalable and maintainable for future needs.
* Work in a cross-functional team to define and execute the long-term network automation strategy.
* Contribute to the architectural design of network automation systems, ensuring they are aligned with broader business goals and evolving technologies.
* Stay on top of industry trends and emerging technologies to recommend innovative solutions that drive future network capabilities.
* Act as a subject matter expert in network automation, providing technical leadership to the team and influencing best practices.
* Collaborate with network engineers, systems administrators, DevOps, and other stakeholders to align automation initiatives with operational needs.
* Write and present high-level designs, technical evaluations, and analysis of new and experimental network tools and services.
* Attend and present at R&E technical conferences and industry events, such as TNC, APAN, Global Summit, and CTO workshops.

In addition to the above you will carry out such other duties as may reasonably be required.

**Working Arrangements**

We have adopted a flexible-hybrid model whereby employees work flexibly between a remote and office environment. Weekly visits to the office are required for most employees to support our values and collaborative culture and enable our teams to deliver great work. These arrangements will be role dependent and must be agreed with your line manager. For this role we anticipate that you will be required in the office at least x days per week. This requirement may change, and you may be required to attend the office on more days per week from time to time or on an on-going basis if the needs of the business change.

**Business Travel**

Occasional travel will be required as part of this role primarily withing Europe, but may require travel worldwide.

**Experience, Knowledge and Skills**

* Experience in network engineering with a focus on automation, ideally in service provider environments.
* Advanced industry certification such as JNCIP (Juniper Networks Certified Internet Professional) or equivalent (e.g., CCNP, CCIE).
* Expertise in network automation, with proven experience designing, implementing, and scaling network automation solutions.
* Proficiency with Ansible, Python, and Bash for automating network tasks, configuration management, and orchestration.
* Familiarity with containers (Docker, Kubernetes)
* Experience with CI/CD pipelines and integrating network automation into agile DevOps workflows.
* Understanding of service provider network architectures, including carrier-grade routing and switching, and MPLS.
* Experience with Git and version control in managing automation code.

**Core Competencies and Management Competencies**

The core competencies set out below apply to all employees with GEANT.

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| **PROBLEM SOLVING AND DECISION MAKING:**The ability to work with information of different kinds and draw on different types of thinking processes in order to carry out tasks and activities, respond appropriately to issues, develop solutions to problems and make appropriate decisions. |
| **Customer Focus:**The desire to meet the needs of internal and external customers; focusing efforts on discovering and satisfying their needs. |
| **Self Motivation and Commitment to Results:**The willingness to take responsibility for your own area of work (within a team) and the drive and tenacity to overcome difficulties and see things through to successful completion, on time.  |
| **Innovation and Improvement:**Noticing and seeking out where there are problems or opportunities; proposing creative new ideas and showing the initiative to take action when appropriate. |
| **Teamwork:** Working cooperatively and effectively with others as part of an immediate team and across the organisation and wider community, to achieve shared goals. |
| **Communication and Influence:** The ability to convey information effectively, getting people to go along with you, but also to understand things from others’ perspectives and resolve conflicting viewpoints.  |
| **Flexibility:**Maintaining effectiveness in different situations; the willingness and ability to learn, adapt and change in the light of changing circumstances. |
| **Planning and Organising:**Identifying what needs to be done to achieve objectives and establishing plans and organising resources to ensure effective outcomes (where appropriate in accordance with ​GÉANT project/product management frameworks). |