Network Engineer

Based in Cambridge, UK

Salary: subject to skills and experience

What we do

We operate a cutting-edge pan-European network with global reach. We develop new capabilities and evolve and evaluate emerging technologies in collaboration with partners and industry in support of some of the most demanding network-based applications.

Why work with GÉANT?

Thanks to the terabit network, 50 million researchers, scientists, academics and students can now share record volumes of data unconstrained by geographical location. These collaborations are helping to solve some of mankind’s biggest challenges. Work with GÉANT and you’ll be supporting critical research into sustainable energy, deep space, high-energy physics, earth observation, environmental disasters, medicine and more.

If the thought of moving this data around and working with the people turning that data into knowledge excites you, join GÉANT as a Network Engineer.

Details about the role and how to apply are below. To learn more about what we do, visit: http://www.geant.org.

How to apply

Please forward your CV and covering letter by 30 September 2016. The covering letter should outline your interest in the position and explain how you meet the criteria set out in the person specification. Applications should be sent by email to recruitment@geant.org or by post to the HR Manager, GÉANT, City House, 126-130 Hills Road, Cambridge CB2 1PQ.

We will not accept referrals from agencies or employment businesses except where they have prior authorisation from GÉANT’s HR Manager to make referrals in respect of this particular vacancy.
Job Description

Job title: Network Engineer

Team: Operations, Network Engineering

Normal place of work: Cambridge (UK)

Vacancy open date: 30 August 2016

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Position Summary:

The Network Engineering Team is responsible for the design, planning, and change control of the GÉANT network with overall responsibility for network integrity. The team is responsible for managing all network platforms, traffic and services.

This position is a technically challenging role which also enables the job holder to use their planning and co-ordination skills.

Main responsibilities:

The majority of the work involves:

- Designing, testing and deploying new network features, capabilities and services
- Designing and implementing bespoke user networking solutions
- Assessing new networking and virtualisation technologies and software
- Planning enhancements to the GÉANT network and network services
- Network optimisation and scenario analysis and planning
- Traffic Management and capacity planning
- Network Performance Management, using network traffic, utilisation and performance data to develop a set of utilisation and performance information.
- Providing expert technical support to the GÉANT Operation Centre
- Complex technical engagement with Users Change Control
- Management of network maintenance activity
- Undertaking complex technology, software and configuration assessment, design and implementation
- Continually evolving the GÉANT network to; take advantage of new software and hardware capabilities, ensure high levels of performance and availability and adapt the network to changing demands and requirements
- Managing network resources to ensure policies, standards and design and planning rules are being upheld so the network is never compromised beyond acceptable and agreed performance and availability levels
Effective management of all circuit, service and equipment capacity
Working with the Implementation and Procurement teams to optimise capacity, utilisation & costs in a procurement based environment, to include writing and evaluating tenders
Supporting network service development activity
Providing the Service Assurance team with specialist technical support

In addition to the above you will carry out such other duties as may reasonably be required.
You may occasionally be required to travel within Europe in this role.

Person Specification

Qualifications, skills, experience and knowledge required

Essential

- Candidates will have extensive experience of working in a National Research and Education Network (NREN), Research and Education organisation, commercial ISP, large enterprise or communications provider in a senior technical network centric role
- Complex Juniper IP configuration experience
- IP protocol knowledge and experience (routing protocols, MPLS and related items)
- VRF/Virtual Routing design and implementation
- The ability to create/work with and install/configure tools in a networking environment. Opnet, Deepfield, Cacti, Nagios, IPAM, HP OpenView, and other typical network management tools
- Complex network support experience
- Complex network design experience
- Strong linux/unix skills, automation and network analysis
- Network proof-of-concept design, lab testing of new software and hardware features

Desirable

- Certifications: Cisco, Juniper, other network vendors, scripting
- Transport network knowledge: optical, DWDM, SDH, Infinera or any other coherent vendor a plus
- Python/UNIX/Linux scripting/programming
- Project management experience
- Knowledge of ITIL best practice
- Implementing and managing virtual machines
- Knowledge of Authentication, Authorisation and Identity services, applications and infrastructure
• Knowledge of type approval testing for network OS candidate validation

Personal Skills and Attributes

• Good interpersonal and English verbal and written communication skills
• Capacity to plan and co-ordinate
• Customer facing skills
• Proactive and persevering
• Ability to work effectively and efficiently under pressure
• Highly organised and able to prioritise
• Self-motivated and able to take initiative
• Flexible – willing and able to take on new activities, technically and commercially – and able to devote as much quality time and attention to planning and co-ordination as to technical tasks
• Ability to work independently and as part of a team
• Capability to learn new products and network technologies quickly, often without formalised training