

## NETWORK ARCHITECT

<b>Location</b>	Amsterdam (NL) or Cambridge (UK)
<b>Reports to</b>	Head of Network Evolution
<b>Hours</b>	Full time
<b>Contract</b>	Permanent/fixed term

### Purpose and Context

The position of Network Architect within the GÉANT Operations department is a member of the team that is responsible for setting the medium to long-term strategic direction of the GÉANT research and education pan-European E-Infrastructure.

The role involves the analysis of requirements from NRENs and other E-Infrastructures to develop network solutions and design, test, and assess new networking technologies to meet the needs of Users. This will include performing network modelling, analysis, design and planning.

In addition, it will require the management of technology vendors to maintain awareness of networking hardware and software technology landscape, this knowledge will need to feed into the creation of an evolution roadmap for the GÉANT network.

This position requires an understanding of all networking technologies although expert knowledge in network technologies at layers 0 through 3 are required.

### Role Accountabilities

- Analyse requirements from NRENs and other E-Infrastructures to develop data networking and management solutions, designing, testing, and assessing new networking technologies.
- Carry out long-horizon investigations and testing (5+ years ahead) of network technologies, potentially within the GÉANT project or for network planning.
- Engage with big science users and global R&E network partners for lab studies and field trials of next-generation technologies, determining production direction.
- Contribute technical expertise to GÉANT EC funded network infrastructure and innovation projects.
- Provide technical input to procurement processes, tender writing, and evaluation, including writing functional requirements and specifications.
- 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**

- Previous experience as a network engineer or architect
- Proven experience in network technologies in a vendor or network provider environment
- An operational background would be desirable to provide "real-world" input into future network designs.
- Minimum: relevant degree level qualification in Computer Science area or equivalent experience.
- Be familiar with Public Sector procurement and bid processes
- The ability to converse with a diverse range of stakeholders including engineers, finance, procurement, venders and suppliers and senior members of the Research and Education (R&E) community, both in written and verbal communication.
- Confident presenter to a variety of audiences including tech and non tech
- In addition, you will have experience and knowledge in areas of:
  - Develop and implement advanced non-internet optical services, including optical time and frequency, quantum key distribution, and fibre sensing.
  - Lead cross-border testing and standardisation of non-internet optical services.

## Core Competencies and Management Competencies

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

### **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).