

Software Engineer	
Location	Amsterdam
Reports to	Business Applications Manager
Hours	Full time (39 hours in NL)
Contract	This is a permanent role. If the role is offered in our Netherlands office, it will be offered as a 1-year definite contract with the possibility of an indefinite contract thereafter.

Purpose and Context

You will build extraordinary software that supports GÉANT as an organisation and the network we are responsible for running. Our network is the largest and most advanced R&E (Research & Education) network in the world, connecting over 50 million users at 10,000 institutions across Europe. We provide users with highly reliable, unconstrained access to computing, analysis, storage, applications and other resources.

Reporting into the Business Applications Manager, this role is a key part of our small and highly collaborative software team, which is located across our Cambridge and Amsterdam offices.

You will be working on projects to support various business functions across the organisations (e.g. our Events, Finance, Network Operations teams). You will also contribute to projects that facilitate collaboration in our R&E community and to help manage and improve the GÉANT network.

This is a collaborative role where you will enjoy regular contact with the Solution Architects, other Software Developers, and the Product Owners and stakeholders in an agile environment.

Role Accountabilities

- Developing, testing, and implementing bespoke systems in Python and related technologies.
- Supporting the process of Solution Architects and Product Owners breaking down high-level requirements into understandable pieces of work, and being responsible for ensuring you have enough information for carrying out this work.
- Working as part of an agile team to develop new functionality in products.
- Participating in code reviews, driving best practices across the team.
- Interacting with internal and external stakeholders to understand business requirements.
- Working in a collaborative environment with others such as Solution Architects, other Software Development team members and end users.

- Testing, reviewing, enhancing, and maintaining existing applications. Providing Level 3 support for developed systems.
- Configuring and managing applications on project workstations/servers.
- Ensuring high quality standards along with appropriate detailed documentation.
- Other duties as may reasonably be required.

Working Arrangements

We have a flexible-hybrid model which means that employees will 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 2 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 within Europe may be required as part of this role.

Experience, Knowledge and Skills

Essential

- Educated to degree level, or equivalent, in computer science or information systems, or comparable work experience.
- Excellent programming knowledge using recent versions of Python 3.x, and experience with pip, setuptools, tox and other common tools.
- Some demonstrable knowledge of web-based front-end technologies, such as JavaScript, TypeScript, node, React.
- Good relational database experience, particularly MySQL, PostgreSQL.
- Understanding of common LAN protocols such as IPv4, IPv6, TCP, UDP.
- Understanding of the full-stack software development lifecycle.
- An understanding of the concept of integrating bespoke and third-party systems into compound services; demonstrable knowledge of techniques for effectively working with network API's.
- A commitment to learning and applying:
 - automated service provisioning
 - CI/CD techniques
 - software product quality assurance techniques such as unit/component/system/performance testing, static code analysis

- secure software development principles and techniques.
- A commitment to development with monitoring/instrumentation in mind and ensuring that developed services can be monitored in order to verify compliance with various performance targets.
- Extensive experience working with git.
- Knowledge of Agile development (Scrum and Kanban).
- A high level of experience and comfort working with Linux (RHEL 7/8, Ubuntu 20.04/22.04), bash and other common cli tools.
- Awareness of data protection requirements and environment in Europe.

Desirable

- Understanding or willingness to learn about backbone network technologies, such as BGP or MPLS.
- Understanding or willingness to learn about federated SSO frameworks such as SAML 2.0 and OIDC.
- Understanding or willingness to learn working with various important and commonly used Python tools and frameworks such Flask, SQLAlchemy, Alembic
- Experience working with Docker containers.
- Experience or understanding of deploying/configuring applications in some commercial cloud environment.
- Experience with or understanding of using Puppet to manage and provision systems.