

## Senior System Architect

ID Quantique (IDQ) is the world leader in quantum technologies with applications in the field of sensing and security. IDQ is organized in two business units. In its Quantum-Safe business unit, IDQ develops and commercializes cryptographic solutions, designed to protect data for the long-term future against threats such as quantum computing. The company provides quantum-safe network encryption, secure quantum key generation and quantum key distribution solutions, as well as related services to the financial industry, enterprises and government organizations globally. In its Quantum Sensing business unit, the company develops and commercializes optical instrumentation products.

**ID Quantique** is looking for a **Senior System Architect** to join the R&D team located in Geneva, Switzerland, reporting to the Vice President of Engineering

**Position summary:** This position will be fully dedicated to the QSafe product line, with a strong focus on architecting security solutions that are easy to deploy and can scale over large networks. The deployed technology is software-based with a core platform based on Linux and well-defined external interfaces accessible via IP networks, hence a strong knowledge and experience of these modern technologies is mandatory. The working environment is based on a standard Agile framework with a lot of interactions with stakeholders and intensive use of user stories and backlog management.

The system architect will have multiple activities inside and outside of R&D. The person will need to be self-driven and autonomous, demonstrate technical and thought leadership on a daily basis, be comfortable working in an international environment and ensure that the designed systems meet the expectations of our customers.

### Key Functions and Responsibilities:

- Understand business/customer requirements and transform them into formal technical user stories
- Define efficient system architectures that scale in large networks
- Groom the system backlog, participate to the sizing of the stories and ensure readiness for implementation
- Act as the technical interface and subject matter expert for partners or customers during presales or integration phases
- Support technical teams in defining acceptance criterias, in understanding system workflows, in testing and troubleshooting functional or integration issues
- Monitor new technologies and conduct feasibility studies to feed the product roadmaps
- Contribute to the Intellectual Property activities (Patents submissions and committee)
- Contribute to the definition of worldwide standards for Quantum-based security systems

### Required Expertise:

- Strong background in Software development/architecture
- Strong knowledge of Unix/Linux-based systems and IP networks
- Proven experience in internet/large-networks deployments of client-server applications
- Experience in security-related products, ideally around secure key distribution and hardware security modules
- Experience in providing guidance and technical leadership to development teams
- Proven experience in identifying, analyzing and resolving system problems
- Excellent written and verbal communication skills

### Profile:

- Team Player, good communicator and ability to formalize and structure the information
- Quick learner and can-do attitude in a fast-paced environment
- 10 years of experience in defining or building software and/or embedded security products for mid to large-size customers
- Fluent in English
- Master degree in Engineering or equivalent

The position is available immediately.

To apply please send your full application including motivation letter to [hr@idquantique.com](mailto:hr@idquantique.com) mentioning **System Architect** in the subject.