

R&D System Architect (10+ years' experience)

ID Quantique (IDQ) is the world leader in quantum-safe crypto solutions, designed to protect data for the long-term future. The company provides quantum-safe network encryption solutions and services to the financial industry, enterprises, and government organizations. IDQ also commercializes a quantum random number generator (QRNG), which is the reference in the security, simulation, and gaming industries. Additionally, IDQ is a leading provider of optical instrumentation products, most notably photon counters and related electronics. The company's innovative photonic solutions are used in both commercial and research applications.

Base Qualifications / Responsibilities

- ✓ Fully dedicated to the development of IDQ's QKD systems with a strong focus on architecting solutions to be deployed in various network types and topologies.
- ✓ Have multiple activities inside and outside of R&D.
- ✓ 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
- ✓ Support technical teams in defining acceptance criteria, in understanding system workflows, in testing and troubleshooting functional or integration issues
- ✓ Contribute actively to the technology and product roadmap
- ✓ Contribute to the Intellectual Property activities (patents submissions and committee)
- ✓ Contribute to the definition of worldwide standards for Quantum-based security systems
- ✓ Analyse National certification requirements and deploy in the product in line with various team members
- ✓ Experience/expertise in system design and validation, architecture documentation and communication, QKD protocols, post-processing, security analysis and performance modelling, telecom-wavelength fiber optics and optical components, integrated optics, InGaAs/InP single-photon detectors, physical implementation of QRNGs, and/or product design (defining user stories, environmental requirements, industrialization and quality assurance).

Preferred Qualifications

- ✓ Strong background in QKD system architecture and system validation.
- ✓ Strong knowledge of telecom-wavelength fiber optics and optical components, integrated optics, and InGaAs/InP single-photon detectors
- ✓ Good experience in security-related products, ideally around secure key distribution and hardware security modules
- ✓ Team player, good communicator and ability to formalize and structure the information
- ✓ Quick learner and can-do attitude in a fast-pace environment
- ✓ Good English communication in written and verbal
- ✓ PhD in Electronics/Electrical Engineering or Physics or equivalent

The position is open immediately.

Should you be interested in this opportunity, please send a full application to:

HRKorea@idquantique.com

Reference to be mentioned in the subject of your e-mail: Korea RHE10

ID Quantique Ltd is an equal opportunity employer and considers qualified applicants for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, gender identity, age, disability, veteran status, or any other status protected by law.