

## **RANDOMNESS ENGINEER JOB DESCRIPTION**

One of the greatest commodities of our times is the ability to safely exchange information online. However, our current encryption methods are vulnerable, and we know that their security will render obsolete with the advent of new technologies, such as quantum computers.

At Quside, we design and manufacture innovative quantum components for all connected devices. Using our proprietary quantum random number generator, we provide the reliability and performance that is required to build the next generation of encryption technologies. A new class of products and infrastructure with unprecedented future-proven security guarantees. Our mission is to make sure that safe communications keep being a commodity in the years to come.

Job overview - At Quside we're looking for a highly motivated randomness engineer to join our product development team in the testing and standardization activities of quantum random number generators. The candidate will have a significant impact on the design and development process of the company, as well as continuous interaction with clients, partners, European projects and industry groups.

### **Objectives of this Role**

At Quside, you will have the opportunity to work in a high-tech environment and contribute to the development of the company's products. You will work directly with the product development team to produce state-of-the-art technology and methods. More specifically, you will

- Design randomness testing procedures for the Company's products.
- Automate entropy estimates in embedded devices.
- Contribute to standardization efforts for quantum-based randomness sources.
- Disseminate, both internally and externally, randomness quality procedures of the company.
- Develop new tools and updating them with state-of-the-art research results.

### **Skills and Qualifications**

- Strong background in mathematics, physics and coding are required.
- A PhD on a quantum randomness-related topic is highly valued
- A hands-on approach is fundamental, due to the required constant interaction with engineering team.
- Capacity to communicate, both orally and in written, in an assertive and precise way is of fundamental importance.
- Experience of C++ and Python experience is highly desirable (provable experience on at least one of those two languages is necessary).

Please, send us a cover letter and your CV to [careers@quside.com](mailto:careers@quside.com)