

About the position

Quantum Key Distribution (QKD) is a highly secure method to distribute secret keys which can be used for encrypting data. One way of transmitting quantum states is via free-space optical channels, i.e. from building to building or similar.

We are looking for a motivated candidate to develop our QKD product towards free-space optical (FSO) applications.

Tasks

- Software development to support FSO-QKD
- Hardware adjustments and collaboration with the hardware team to make FSO-QKD work
- Research and push FSO-QKD state-of-the-art
- Work with partners and customers to develop and test applications
- Travel to project meetings or field tests to make things work on-site
- Attend FSO or QKD conferences

What you should bring

Your most important skill is rational/logical thinking.

Ideally, you should have some experience with free space optics, i.e. Gaussian beams, telescopes, loss budgets, etc. To complement that, it would be nice if you understand the basic workings of QKD.

However, to really put your expertise to good use, it is important that you are able to make modifications to the system yourself, i.e. coding in python or touching (and not breaking) a piece of hardware (electronics, fiber optics, etc.).

You need to be able to communicate with partners and customers. That means showing empathy for their problems and finding pragmatic solutions.

Besides the experience of the founders, you will be our first dedicated person working on FSO-QKD. Ideally, you enjoy having your own playground to work out the product and figure out ways on how to improve its impact. You are not afraid to present on conferences or get the input you need to further develop the ideas.

We will also send you to work directly with partners and customers, which can be all around Europe. This includes test campaigns of one or maybe a few weeks, where you install a system and make sure it works on site.

Start & Scope: Asap; Full time, on-premise; flexible work conditions

Location: GS28, 6. Stock, Gebhardtstraße 28, 90762 Fürth

Contact: quantum@keequant.com

