

Just finished your PhD (or similar) and now you are looking for a first experience in industry?

IDQ is looking for a

## Collaborative Projects Intern for Quantum Sensing Projects

At IDQ, we change the world, one photon at a time. We harness light to develop and industrialize the most advanced quantum products and technologies and help to build long-term trust. We offer quantum key distribution systems and quantum random number generators, and with them we provide the highest level of future-proof security. We develop the most advanced single-photon detectors and timing instruments to exploit the power of light at the quantum level. We develop solutions that provide the highest levels of sensitivity and precision, and we enable novel and secure applications based on these. At IDQ, we have an unwavering commitment to quality and integrity with strong corporate governance based on the following values: transparency, respect, long-term trust, accountability and courage.

**IDQ** is looking for an **Intern** to join the Innovation team based in Geneva, Switzerland. IDQ continuously develops and brings to life the most advanced superconducting nanowire single-photon detectors (SNSPDs). We do this because we believe that the best single photon detectors will find more and more applications in various technology and research areas such as biology, life sciences, astronomy, physics, chemistry, and others. The successful candidate will support the Collaborative Projects Manager to define new projects and work on new proposals. The key is to strengthen existing partnerships and find new ones to jointly discover and develop these applications.

As an ideal candidate, you have a **scientific or technical background** where you have needed photon detectors for very low light intensities, for example, on the single photon level. You are **convinced** that single-photon detection will serve many applications in different domains you are **curious** to find out about the needs and requirements of those scientists and engineers. You have **strong communication skills**, both with your colleagues and with external members and you can take **initiative to drive projects**. You have an **open mind**, a **positive attitude** and you are an **avid learner** with the desire and ability to have a strong impact to **innovation in an industrial context**.

**Duration:** 3 to 6 months (to be discussed)

**Special mention:** Remote working (from Europe) is possible

### Key responsibilities:

- Assist in finding new opportunities for collaborative projects in various technical and scientific fields
- Understand the specifications of current and future SNSPDs
- Reach out to strengthen existing partnerships or for new potential partners
- Assist in working out project proposals for public funding calls
- Constantly and clearly communicate the status of your project to your peers, supervisors, and stakeholders at IDQ.

### Desired Profile and required expertise:

- PhD or equivalent experience in a technical or scientific domain where weak light or single-photon detection plays an important role
- Understanding of (or a strong desire to learn) the physics of single photon detectors, in particular SNSPDs
- First experience with collaborative projects and public funding
- Autonomous and capable of working in a dynamic environment, alone or within a team
- Fluency in English

### How can you benefit from the internship?

This internship is a chance to work in a highly innovative environment with a motivated and encouraging team. At the end of the internship, you will have deepened your understanding of single photon detection and its application in various fields. You will have learned about the technological and scientific landscape in this domain. You will have experience in raising collaborative projects and public funding. Finally, you will understand how innovation drives industrial evolution and roadmaps.

### The position is open immediately.

Should you be interested by this opportunity, please send a full application to [internship@idquantique.com](mailto:internship@idquantique.com) with **Collaborative Projects intern** mentioned in the subject.

*ID Quantique SA 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.*