



We are looking forward to welcome to our team a passionate, hands-on

(Senior) Quantum Cryptography Specialist

Qubo Technology GmbH, www.qubo.technology

Location: Vienna, Austria

Date: January 2025, starting date: as soon as possible

Employment Type: Full-time

About us

QUBO stands for “Quantum for everybody” – and this is what we do every day: bringing the benefits of quantum technology to practical applications that make all our lives better. Qubo Technology is a spin-off that was founded in 2023 and is based on a world-leading photonics platform developed with the University of Vienna and published in Nature. Our focus lies on making digital payments, the backbone of the economy and all our lives, quantum secure. We are a passionate, interdisciplinary team and are already working with internationally leading financial institutions. We are located in beautiful Vienna, Austria, embedded into a quantum tech community of >50 people, working on scalable quantum security and communication solutions, pushing the boundaries of cryptography and quantum technology.

Geht to know more about us in this short video which we did when we won a start-up prize last year: https://youtu.be/rZukogN8qXk?list=PLdhQ-Vnm_oUSyK4v6Yqqi7G1a36d9krw9

Who we are looking for

We are looking for a hands-on **(Senior) Quantum Cryptography Specialist** that is well versed in quantum physics, passionate about making the science work in practice, and who brings in experience in R&D work and technology development. The ideal candidate is a strong team player who enjoys working closely with our multidisciplinary team of scientists, engineers and business builders to develop, test, and deploy cutting-edge cryptographic protocols, software and hardware solutions grounded in quantum technologies.

Note that the role can be adapted to suit the level of experience of the successful applicant. We encourage applications from senior, mid and early career candidates.

Responsibilities:

- Drive the design, testing, optimization, and implementation of quantum cryptographic soft- and hardware solutions, such as innovative protocols and the respective equipment.
- Conduct R&D, from experiments to simulation and real-world demonstration in quantum cryptography, including the setup, calibration, and optimization of quantum solutions.
- Advance our cryptographic solutions towards products that our customers will love

Qualifications:

- Advanced Degree (Master, PhD) in Quantum Physics, ideally with exposure to experimental physics and quantum photonics .
- Previous experience in experimental R&D and/or technology development
- Experience in cryptography, quantum optical systems, quantum information processing, QKD, or related fields is a plus.
- Programming skills in Python, MATLAB, or similar languages, optimally already applied in relation to quantum algorithms, data analysis, or cryptography.
- Passion for bridging cutting edge science with making it real in practical applications. Ideal candidates have had first exposure both to a scientific research environment and to working in a startup or industrial environment.

Why join Qubo now?

- **Make a real difference:** Yes, we build on great science, but we are already working on making the science real in practical applications. Not in 5 years, but now.
- **Innovative Environment:** Work at the cutting edge of technology in a field that is transforming data security and cryptography.
- **Personal growth Opportunities:** Be part of a growing company that encourages continuous learning and professional development, and interaction with leaders in science and business.
- **Team spirit:** Join a team of leading experts passionate about what we do, humble and caring for each other, and appreciating a strong sense of humor along the way.
- **Competitive Compensation:** We offer a competitive salary and benefits based on experience and performance.

We are looking forward to getting to know you!

If you are excited to shape the future of secure payments, we want to hear from you! Please send your CV, a short cover letter, and any other relevant materials to office@qubo.technology

Note that Qubo Technology GmbH is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.