Job Description: Quantum Cybersecurity Engineer

Position: Quantum Cybersecurity Engineer
Location: Esch-sur-Alzette, Luxembourg
Start Date: Immediate
Type: Full-time
Salary: Competitive, commensurate with experience

Company Overview
We're **LuxQuantum**, a dynamic startup tackling the exciting and complex challenges in quantum cybersecurity. Our goal is to build innovative solutions that address interoperability bottlenecks in quantum communications by seamlessly integrating quantum key distribution (QKD**)** and post-quantum cryptography (PQC). We're looking for someone to join our small team—not just as a colleague but as a friend—to help lead this mission.
We're more than a company; we're a team of innovators, learners, and dreamers. If you want to explore cutting-edge technology with people who genuinely enjoy working together, we'd love to meet you!

Role Overview
As a Quantum Cybersecurity Engineer, you'll play a key role in developing solutions to tackle interoperability issues in quantum cybersecurity. Think of yourself as both a problem-solver and a collaborator, directly contributing to the creation of leading-edge quantum cybersecurity solutions in an environment where every voice matters.

What You'll Do
- Build and implement software solutions for quantum technologies
- Dive deep into the interoperability challenges between QKD and PQC, and help solve them
- Collaborate with our team to design and test quantum cryptography innovations
- Explore and experiment with quantum technologies, bridging hardware and software
- Create clear technical documentation and contribute to project deliverables
- Help shape an open, supportive, and innovative workplace
- Stay up to date with advancements in quantum technologies and bring fresh ideas to the table

What We're Looking For
- A degree in Physics, Photonics, Computer Science, IT Engineering, Electrical Engineering, Telecoms Engineering, or Software Engineering
- Fresh PhD graduates and postdoctoral researchers are highly encouraged to apply
- Curiosity and a passion for quantum communications, networks, and technologies
- Hands-on experience with quantum systems or protocols
- Sharp analytical and problem-solving skills
- A team player who can also work independently
- A complementary team member who strengthens our group
- Willingness to spend significant time collaborating closely with the team
- Understanding of the startup environment and its challenges
- Fluent written and verbal communication in English (Luxembourgish is a bonus!)

Who You Are
- A self-starter with an entrepreneurial mindset, excited to shape a growing company
- Exceptionally organized, able to juggle multiple priorities
- Passionate about exploring and pushing the boundaries of quantum security
- Someone who values and contributes to a positive, open, and enjoyable team environment

Why You'll Love Working With Us
- Shape the future: Be part of a team addressing one of the most exciting challenges in quantum security
- Collaborate and grow: Work in a supportive environment where innovation and open-mindedness are core values
- Make an impact: Your work will directly influence the development of groundbreaking quantum solutions
- Work with friends: We're not just building a company—we're building a team that works hard, laughs often, and genuinely enjoys the journey together

How to Apply
If this sounds like you, we'd love to hear from you! Send your resume and a short cover letter telling us why you're excited about quantum cybersecurity and how you see yourself as part of our team. Reach us at **contact@luxquantum.lu**.
Come join us to pioneer quantum communications and build a secure, interoperable quantum future—together.