

INTERNSHIP: ICT Specialist

Preferred duration 5 months

Development and Implementation of Scalable IT Infrastructure for a Quantum Technology Startup

As an ICT Specialist, you will play a pivotal role in designing and implementing the IT infrastructure for a fast-growing startup at the forefront of quantum diagnostics. You will architect and deploy scalable solutions for backup, device deployment, and integrated policy management, while also contributing to the configuration and maintainability of collaboration platforms. In addition, you will help guide the transition of company infrastructure toward solutions that align with European data residency and compliance standards, and contribute to the management of local data storage systems to ensure secure and efficient handling of sensitive information.

Candidate profile

We will support you throughout your internship at QuantaMap. To hit the ground running, you ideally bring:

- appetite to take responsibility and make an impact in a small, growing team;
- demonstrated dedication and perseverance, with a drive to motivate others toward shared goals;
- Currently pursuing a degree in Business IT, Information Technology, Computer Science, or a related field;
- Hands-on experience with IT Suites, deployment tools, and a strong affinity for hardware and IT systems.

Bonus points for experience with:

- Project-based or self-taught IT work, team-based design or coding challenges, experience with data storage solutions, or exposure to data residency and compliance considerations.

Beyond the technical skills, you're an independent problem solver with grit and a genuine passion for building things. You thrive in close-knit teams, communicate openly, and hold your work to a high standard — even when the goalposts move.

Impact of your role

Our company is developing one-of-its-kind technology that can solve one of the most important problems in the quantum industry. You will be a key member of the team developing this technology, and your talent and hard work will have an impact on the quantum industry. Your work will directly influence the reliability, security, and scalability of the company's IT infrastructure, supporting both current operations and future growth, while ensuring compliance with evolving data management standards.

What we have to offer

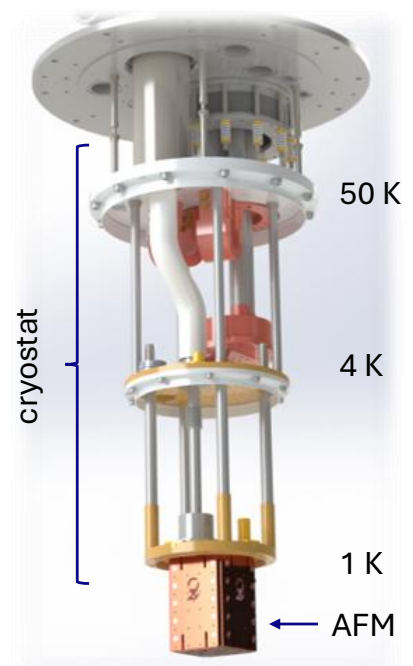
You'll join a young, diverse, and highly motivated team working on technology that doesn't exist anywhere else. This is a hands-on internship — you'll own real work, iterate quickly, and see the results of your contributions on an actual tool.

- **Mentorship:** you'll work closely with experienced engineers and researchers who are invested in your growth
- **Impact:** your work directly shapes a product that is already in the hands of our first customers
- **Environment:** open, inclusive, and built on trust — we explicitly welcome applicants from all backgrounds and identities

About QuantaMap

We are a Leiden-based deep-tech startup developing cutting-edge metrology and diagnostic tools for the quantum industry. Quantum computing has the potential to tackle problems that are currently impossible to solve, with impact across fields such as material research, drug discovery, and logistics. But quantum chips are extraordinarily complex and difficult to produce. When they do not perform as intended — and they often don't — there is currently no way to identify which component failed or how to improve the production process. This is one of the major roadblocks to scaling quantum chip production.

We have developed a novel microscope based on IP-protected SQUID-on-tip sensing technology. By integrating a quantum sensor into the probe of an atomic force microscope, the system can image temperature, electric currents, magnetic fields, and surface structure simultaneously — all at nanoscale resolution and under cryogenic conditions matching the actual operating environment of the chip.



How to apply

Please send your CV and a short message explaining why you want to join QuantaMap to join-us@quantamap.nl. We will get back to you with a suggested interview date. Don't hesitate to apply even if you don't tick every box — we value potential and passion as much as experience.

