

# INTERNSHIP: Software Engineer (m/w/x)

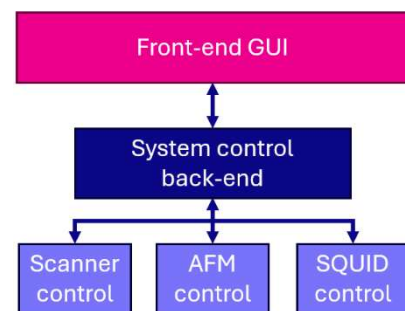
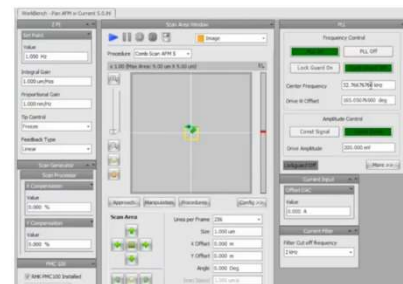
Minimum duration is 5 months

## Develop a system control software for a new diagnostic tools that will enable the quantum revolution at a fast-growing startup

Quantum computing will allow the world to tackle problems that are currently impossible to solve. Manufacturing quantum chips is extremely complex and they often don't fully work as intended. When this happens, there is no way to find out why, which component failed, and how to improve the production processes. This is one of the major road-blocks towards scaling quantum chip production. Our novel microscope, based on SQUID-on-tip sensing, will provide a solution to this problem and therefore will help unlock the quantum revolution.

As a Software Engineering intern you will contribute to the development of the system control architecture of the microscope. In particular, a clear separation of user-facing front-end and back-end that is communicating with all system components is critical.

You will develop part of the architecture as well as concrete implementations of back-end and front-end functions together with the rest of the team. We believe in fast iterations and you will test the code regularly on the actual tool during your internship.



### Impact of the 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 as a whole. You will become a key part of our small, but fast-growing team, and you will join us during a very exciting time: We are currently assembling our commercial prototype (target operation is Q1 2025) and are talking to first customers.

### Ideal Candidate

We will support you to during your internship at QuantaMap, and ideally you start with:

- appetite to take responsibility and make an impact in a small, growing team,
- demonstrated dedication and perseverance, consistently striving for excellence and motivating others to achieve shared goals,
- MSc in software engineering, computer science, or similar,
- hands-on experience in designing system control software, ideally in the high-tech domain.

Please do highlight other experience such as:

- knowledge of signal processing,
- team-based design or coding challenges.

This role requires you to be an independent problem solver, to make things work, to have grit and a passion for building things. You'll be working closely with a small and very supportive team, so close communication and shared team goals will be part of daily life.

In a dynamic start-up, the environment and goals can change fast and you'll be someone who enjoys this. In parallel though, your work will be of high integrity and completed with scientific rigour.

Please do not hesitate to apply if you think this could be the right opportunity for you, even if you do not tick all of the boxes.

## **What we have to offer**

We offer you a challenging internship (minimum internship duration is 5 months) with ample opportunity to learn and grow. You will join a young and diverse team extremely motivated to solve hard problems that do not have solutions yet.

At Quantamap, we are committed to diversity and to creating an open and inclusive environment where everyone can speak up, learn and thrive. We explicitly welcome applicants from all backgrounds and identities to further our inclusive workplace. We value mentorship, trust, kindness, and ambition as key to achieving our ambitious goals together.

## **How to apply**

Please send us your CV and a short message why you want to intern at QuantaMap to [join-us@quantamap.nl](mailto:join-us@quantamap.nl) and we will suggest an interview date.