Quantum Quality Control & Automation Engineer (m/f/d)

DE I Ulm

Full-time, Permanent Employee

Your mission

We are looking for a Quantum Quality Control & Automation Engineer to build the next generation of automated quality control for diamond quantum devices. In this role, you will combine quantum measurements, software development, and laboratory automation to enable the scalable production of high-performance quantum chips for sensing, communication, and computing.

Key Responsibilities:

- Develop and continuously improve Diatope's quantum quality control workflows.
- Ensure reliable, reproducible, and high-throughput characterization of diamond quantum devices.
- Automate measurement routines and end-to-end QC processes.
- Integrate laboratory software, databases, and robotic systems into a seamless QC infrastructure.
- Transform advanced quantum characterization into efficient production workflows.
- Increase measurement throughput while maintaining the highest quality standards.
- Contribute to the commercialization of diamond as the leading material platform for quantum technologies.

Your profile

- M.Sc. or Ph.D. in Physics, Quantum Engineering, Electrical Engineering, or a related field.
- 3+ years of experience with quantum measurements, optics, or microwave experiments.
- Strong Python programming and automation skills.
- Hands-on laboratory experience with microwave technology and excellent problem-solving abilities.
- Fluent English

Why Diatope?

- Direct contribution to the commercialization of diamond for quantum technologies
- Positive work environment with open communication and a collaborative mindset
- Flat hierarchy
- Flexible working hours
- Indefinite employment contract
- Positive work environment with open communication and a collaborative mindset

Contact information

Submit your application to be considered for this exciting opportunity by mail to career@diatope.com

About us

Diatope is a quantum technology company and spin-off from the University of Ulm, pioneering engineered diamond for next-generation quantum technologies. We develop and manufacture quantum-grade diamonds with atomic precision, enabling applications in quantum sensing, imaging, communication, and computing.

By combining world-class expertise in CVD diamond growth, color center engineering, quantum characterization, and advanced automation, we have built the world's first integrated production line for quantum diamond. Our mission is to make high-performance quantum materials reliably available at scale and accelerate the transition of quantum technologies from research laboratories into real-world products.