

Research Scientist Electronic Development & Testing

Location: Weiterstadt / hybrid

Department: R&D

Employment: Full-time

Role / field: Engineering

Who we are

At neQxt, we build full-stack ion-trap quantum computers, striving for excellent performance and scalability. With decades of expertise in ion-trap technology, neQxt was spun out of Mainz University, and it is headquartered in Germany's Frankfurt Metropolitan area. Our team of leading talent from Europe and beyond covers the entire value chain, from the basic hardware to end-user software level. Join our passionate team of ambitious scientists, engineers, technicians and quantum enthusiasts, building top-tier fault-tolerant quantum computers together!

Job description

You will focus on hardware development, as well as validating and testing of such hardware from the trapped-ion and atomic-physics domain. The role sits at the interface between domain experts, who may have limited electronic-development knowledge. Development, testing, and continuous integration are core responsibilities. You will collaborate with product owners, setup owner, the engineering and experiment teams, and external partners.

Responsibilities

- Design, develop, test, and maintain electronic hardware for trapped-ion and atomic-physics applications using Altium Designer
- Develop schematics, PCB layouts, and reusable design libraries
- Perform prototype bring-up, hardware debugging, validation, and performance characterization
- Support prototype assembly and small-batch production, including manufacturing documentation and issue resolution
- Develop and maintain automated test infrastructure and continuous integration workflows for hardware and embedded software
- Create and maintain technical documentation, including design files, BOMs, test procedures, and release documentation

Requirements

- Bachelor's / master's degree in software engineering, computer science, physics, engineering, or a closely related field, or equivalent professional experience
- Solid software-development background
- Experience creating, structuring, and managing software packages using common tools
- Strong coordination skills at the interface between domain experts and software-development teams
- Experience with testing, code quality practices, and continuous integration
- Ability to translate domain requirements into maintainable software structures
- Proficiency in written and spoken English

Nice to have

- Experience in scientific software development, AMO physics, trapped-ion systems, or quantum technologies
- Experience with scientific Python or comparable scientific-software ecosystems
- AMO knowledge is desirable but optional

Who you are

- High motivation and agility, and a sense of responsibility
- Leadership skills: form, build, and grow the team
- Strong team player with a collaborative, ownership-oriented mindset
- Stakeholder management: find compromises in conflicts and persuade effectively
- Continuous willingness to learn and teach
- Ability to explain difficult concepts in a simple way to different stakeholders
- Solution-oriented approach and ability to converge on actionable decisions
- You can manage complex and demanding technical challenges independently

What we offer

We focus on true technological advancement rather than unrealistic roadmaps. With a pragmatic, no-nonsense approach, we move fast and avoid bureaucracy. We value your individuality and offer a flexible environment tailored to your lifestyle.

- Results-oriented environment with flat hierarchies and a passionate team
- Competitive salary with automatic inflation adjustment
- Flexible working hours, hybrid/remote work and full overtime compensation
- Career development in an emerging tech field
- German language courses, if needed
- Company pension scheme
- Choice of a flexible mobility budget or company car
- Default (mandatory) German employment benefits (e.g. health / pension / unemployment insurance, paid sick leave, maternity protection, parental leave, ...)

How to apply

To apply, please submit your CV, a cover letter including your preferred starting date, and any relevant publications, project details or other supporting documents via e-mail to: career@neqxt.org. Applications will be reviewed on a rolling basis until positions are filled.