



Group Leader (m/f/d) Photonics for Quantum Computing

AMO GmbH is a research institute located on the campus of RWTH Aachen University.

Our mission: we carry out scientific research in the fields of microelectronics, photonics, sensor technology, energy and environmental nanotechnology to provide technological impulses for economic development. We are partners for regional and global innovators and seek sustainable solutions for current global challenges.

We are pathfinders for the technology of tomorrow. Join us in bridging the gap between scientific discoveries and technological solutions!

YOUR TASKS :

- Establish and further develop the research group
- Lead a team of PhD candidates and Master students
- Independently conduct research on Integrated Photonics for Quantum Computing (process development, device design, characterization, high-level publications)
- Coordinate and report work within different projects, towards funding agencies, project partners, the scientific community and the general public
- Foster collaborations with RWTH Aachen University

YOUR PROFILE :

- PhD in physics, electrical engineering or materials science or comparable
- Practical experience in fabricating photonic devices and circuits in a clean room
- Experience in simulating optical / optoelectronic devices is a plus
- Strategic and conceptual thinking. First leadership skills are appreciated
- Strong project management and communication skills
- Experience in grant proposal writing
- Fluent in English, German is a plus but not essential

OUR OFFER :

- Purpose: be part of our international, passionate, enthusiastic team of physicists and engineers combining ideas from various disciplines to research the key technology for scaling the number of Qbits in ion trap-based quantum computers
- We will support an application to the NRW Rückkehrprogramm, a generous funding option to set up a Research Group (<https://www.mkw.nrw/hochschule-und-forschung/foerderungen/rueckkehrprogramm> or similar: ERC Starting Grant, Emmy Noether)
- Environment: excellent infrastructure (400 m² clean room equipped with state-of-the-art fabrication and characterization technologies) and modern workplaces
- More: family friendly flexible working hours, including mobile working opportunity plus multiple benefits
- Dual appointment with RWTH Aachen University possible

Interested? Then we should get to know each other! Please send your application including a letter of motivation, a resume and the current relevant references to jobs@amo.de



Contact:

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