PhD Student on Integrated Photonics for Quantum Computing

AMO GmbH is an innovative research service provider for industry, SMEs and universities.
We operate a silicon pilot line and conduct application-oriented research, focusing on new materials integration.

We invite you to join AMO as part of our Nanophotonics Group. We are an international team of passionate and enthusiastic physicists and engineers from various disciplines such as microelectronics, lasers and photonics, electrical engineering and nanotechnology. We are combining ideas from various disciplines to research key technology to scale the number of QBits in ion trap based quantum computers.

We are expanding our team and intend to hire a

PhD Student on Integrated Photonics for Quantum Computing

Your profile:

- Master in physics, electrical engineering or nanotechnology
- Strong interest in nanotechnology fabrication in our clean room and experimental work
- High motivation to creatively and independently solve experimental and technological challenges
- Background in opto-electronics or nanophotonics
- Ideally first-hand experience in fabricating photonic devices in a clean room
- Ideally some experience in simulating optical devices

Your tasks:

- Conducting research on Integrated Photonics for Quantum Computing
- Process development: thin film deposition, lithography and etching
- Device design: co-design of process and device parameters
- Structural and optical characterization of fabricated structures and devices
- Coordinating your work with our group and project partners

We offer:

- Excellent infrastructure (400 m² of clean room equipped with state-of-the-art fabrication and characterization technologies).
- Working in an international team.
- Family friendly work environment and full position with flexible working hours.

You will be co-supervised by Prof. Max C. Lemme and get the opportunity to pursue a PhD at the RWTH Aachen University. Join us today! Please send your CV and cover letter to jobs@amo.de; Dr. Stephan Suckow

AMO - Partner of Innovators

AMO
Otto-Blumenthal-Str. 25 ■ 52074 Aachen
Tel. +49 (0) 241 8867 200 ■ Fax +49(0)241 8867 560
E-Mail: jobs@amo.de