



PhD Position / Perovskite Photonics / Integrated lasers

AMO GmbH is an innovative research service provider for industry, SMEs and universities. In the AMICA division, we operate a silicon pilot line and conduct application-oriented research focusing on new materials integration like graphene, 2D materials, and perovskites.

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 develop a fundamentally new concept of integrated lasers based on our silicon nitride waveguide platform. Quantum photonics and nonlinear optics are included in our research portfolio.

We are expanding our team and intend to hire

A PhD Student on Perovskite Photonics / Integrated lasers

Your profile:

- Master in electrical engineering or physics or similar
- Strong interest in nanotechnology fabrication in our clean room and experimental work
- High motivation to creatively and independently solve experimental and technology challenges
- Background in opto-electronics or/and laser physics
- Ideally first experience in design and characterization of photonic devices
- Ideally first experience in perovskite LEDs or solar cells

Your tasks:

- Conducting research on integrated perovskite lasers and LEDs
- Design of perovskite optoelectronic devices
- Development of fabrication processes for optoelectronic perovskite devices: lithography, etching and thin film deposition in clean room environment
- Structural, optical and electrical characterization of micro structures and devices

The PhD student will be co-supervised by Prof. Max C. Lemme at the RWTH Aachen University. Join us today! Please send your CV and cover letter to jobs@amo.de; Dr. Piotr Cegielski



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

AMO - Partner of Innovators