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

PhD Student / 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 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 silicon photonics fabrication technology

Your tasks:

- Design and simulation of integrated lasers
- 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

PhD student will be 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. Anna Lena Giesecke

AMO - Partner of Innovators

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