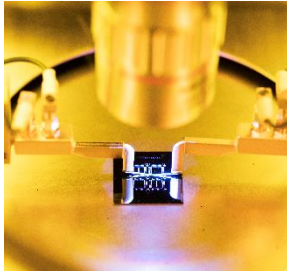


Master Thesis (f/m/d) Optical Links for Quantum Computers

Broaden your integrated optics horizon at Polariton Technologies



Polariton Technologies is a young start-up coming out of ETH Zurich developing cutting-edge devices for optical communications. Together with ETH Zurich we develop optical links for quantum computing in cryogenic environments. Join our multidisciplinary team and contribute to the development of future quantum computers.

Your job includes

- Hands-on optical and electrical characterization of plasmonic modulators in room-temperature and cryogenic environments.
- Understand the physics of materials, plasmonics, and electro-optic devices at cryogenic temperatures and confirm the theory experimentally.
- Bring the theory to an application by demonstrating high-speed information transport out of the cryogenic environment.

As an ideal candidate, you have

- A bachelor degree in an engineering science, physics, or similar.
- Good understanding of optics and physics.
- A hands-on mentality, you enjoy working in the lab and in a team.
- Highly motivated contributing to the development of a high-tech products.

Your learnings

- Grow with a dedicated and dynamic team in a start-up work environment
- Contribute to innovative technology development and to new products
- Work on cutting-edge integrated optics, strengthen your experimental skills

Your application

If you are interested in working with us, please send your application (motivation letter, CV) to Patrick Habegger: join@polariton.ch

Supervisors: Patrick Habegger (Polariton), Stefan Köpfli, Dominik Bisang (ETHZ)
Supervising Professor: Prof. Jürg Leuthold

Starting time: after negotiation

Location: ETH Zürich, ETZ, Gloriastrasse 35, 8092 Zürich