



OPTOMECHANICAL
TECHNOLOGIES

Ph.D. position in Optomechanical Technologies at EPFL

Project description

Within the framework of the EU H2020 Marie Curie European Training Network “Optomechanical Technologies OMT” (www.omt-etn.net), a PhD position is **immediately available** in the Laboratory of Photonics and Quantum Measurements at EPFL.

The specific research project will be focused on developing novel superconducting microwave optomechanical devices. The goal is to explore novel functionality offered by quantum optomechanics for quantum-limited microwave photon manipulation. The project will be carried out in the research group of Prof. Tobias J. Kippenberg (<http://k-lab.epfl.ch>), who will serve as Ph.D. advisor. The experiments are at the interface of condensed matter physics and quantum optics, closely linking experiment and theory. The Ph.D. student will thus acquire a broad knowledge in several fields of research and in a range of experimental techniques.

We offer a unique PhD experience

- world-class research facilities
- hands-on workshops in technical and transferable skills
- Industry exposure
- International conferences and outreach activities

Requirements

- A master’s degree in engineering or physics
- An outstanding academic record
- Good communication and English language skills

As per the **Marie Curie eligibility rules**, the candidate must not have resided or carried out his/her main activity (work, studies, etc.) in Switzerland for more than 12 months during the last three years.

Previous research experience in optics, numerical simulation or nanoscale fabrication would be beneficial.

Diversity

EPFL is committed to diversity in the workplace. We offer an open, multicultural environment. Excellent, flexible working arrangements enable both women and men to strike the desired balance between their professional development and their personal lives.

How to apply

Please send a **single PDF file** including a motivation letter, curriculum vitae, transcripts of undergraduate and graduate grades, and contact information from at least two references to Tobias J. Kippenberg (tobias.kippenberg@epfl.ch).