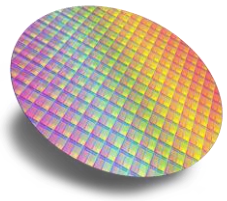
Working Student in Industry / Industrial Internship
Semiconductor characterization laboratory operations

We are a young and dynamic startup founded in 2020 by experts who have developed a game-changing photonic technology in the laboratories of IBM Research in Zurich.



We have developed a unique technology to bring a material with an extremely strong Pockels coefficient into a scalable silicon photonics platform. Having this physical effect available in integrated photonic circuits has been a scientific and technological breakthrough, which enables the realization of advanced photonic structures and completely new applications, e.g. for photonic AI networks and quantum computing.

At Lumiphase, we are bringing this new technology to market, while at the same time developing new scientific and technological concepts. This working student position is placed at the heart of our R&D activities and will ensure that our groundbreaking semiconductor chips can be tested to their full performance potential with appropriate electrical, optical and mechanical integration solutions.

Details about the role

This position is for a student seeking a 40-60% (2–3 days/week) role to gain hands-on lab experience in an exciting and fast-growing industrial startup. The purpose of this role is to support our R&D team with a range of hands-on tasks, including mechanical design, PCB design, electrical and optical asssembly of silicon chips, soldering, installation of hardware components and samples into test chambers, selection and ordering of hardware components, running calibration routines and performing measurements.

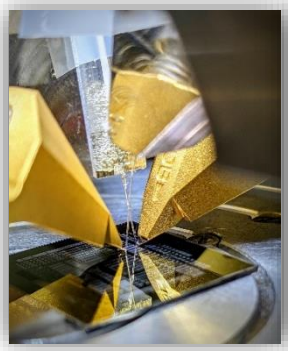
You will closely collaborate with R&D engineers, gaining insights into electrical and optical testing hardware, test methods, and practical lab skills related to semiconductor components. This hands-on experience will provide you with a strong foundation in industry-driven R&D activities.

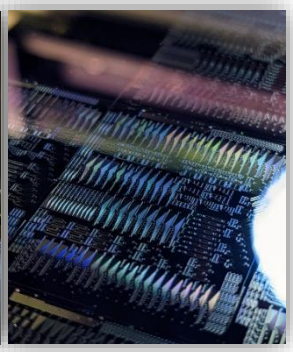
This position is well suited for students pursuing an engineering, natural science or computer science degree at a university or a university of applied sciences (*Fachhochschule*). It may also be fitted as an industrial internship for an engineering student of Bachelor/Master program. Start and duration of the position (internship) can be aligned with your availability and/or your university's regulations, with a preference for a minimum of 6 months.

What we are looking for

Seeking a motivated candidate with a strong interest in electrical engineering and micro-scale photonics. Desired qualifications:

- Strong interest in hands-on work with delicate semiconductor components/wafers and electrical and optical measurement equipment.
- Experience in using CAD and/or PCB design software. Basic mechanical and/or electrical engineering knowledge is an advantage.
- Python knowledge.
- Independent and exact working style.
- Desire to contribute within a dynamic deep-tech startup.





Job location

This job is onsite. We are located in Stäfa in the greater Zurich area, Switzerland.

How to apply

Please submit your application via JOIN:
join.com/companies/lumiphase/11074621.
For any questions, please write us at
talents@lumiphase.com.