

LIGENTEC is a young and dynamic company located in Lausanne, Switzerland, near EPFL, close to the shore of Lake Geneva. We are design and manufacture **Photonic Integrated Circuits (PICs)** for customers in high-tech areas such as Quantum Technologies, LiDAR, Space Technologies and Biosensors. LIGENTEC All-Nitride technology enables our customers to develop their products in the industrial revolution 4.0

To support our continued growth, we are looking for an:

Intern - Photonic Design

Integrated Photonics, Nanoengineering

Your responsibilities:

- Perform numerical simulations of optical waveguides and passive SiN components
- Develop customized building blocks based on Ligentec PDK
- Work closely with layout engineers to implement designs
- Interact with process engineers to simulate the impact of process on device performance
- Focus on Photonic Inverse Design, doing simulations and the corresponding layout

Your profile:

For this position, we are looking for a person with an interest in gaining experience in the area of data science to join our design team:

- Currently enrolled in a Master or PhD program in a relevant discipline such as Photonics, Electronics or Physics.
- Good understanding of the fundamentals of optics.
- Familiar with programming languages is a plus
- Familiar with commercial software for photonic component design such as Lumerical is a plus
- Open minded, communicative, critical, and innovative.
- Flexible in working on different tasks and with different teams.
- Ability to work independently and with remote teams.
- Working proficiency in English.
- Work/residence permit for Switzerland or EU citizenship.

Benefits:

- A young, dynamic and fast paced start-up
- Financial support
- Excellent work environment
- Activity rate:** 100%
- Place of work:** Ecublens (VD), Switzerland
- Start date:** Fall 2023
- Period of internship:** minimum 6 months

Sending of applications:

We look forward to receiving your applications, including your CV and a statement of interest to hr@ligentec.com with 2310-ID in the topic.

