

LIGENTEC is a young and dynamic company headquartered in Switzerland, with an office in the Ile-de-France area. We are manufacturing **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 a:

## Design Engineer

### *Integrated Photonics*

#### Your responsibilities:

- Design, simulation and layout of integrated photonic components and circuits for Design Technologies internal projects.
- PDK building block development, incl. design, simulation, layout, test planning and data analysis.
- Interact with the 200mm characterization team, collect capabilities, design test structures, and support in test planning and data analysis (design for testability).
- Interact with the 200mm process team and yield engineering, collect capabilities and requirements, design test structures, support in test planning and data analysis (design for manufacturability, testability and packaging).
- Documentation and reporting.
- Contribute to patent applications and proposal writing.

#### Your profile:

- MSc or PhD in photonics or related fields.
- Minimum of 3 years hands-on experience in integrated optics design, simulation and layout in a top, preferably industrial environment.
- Solid understanding and practical experience with different photonic material platforms, heterogeneous integration, design and simulation
- Hands-on experience with photonics layout software (IPKISS, OptoDesigner).
- Experience with compact model creation is a plus.
- Excellent technical problem-solving skills
- Ability to work independently and with remote teams.
- Work/residence permit for France or EU citizenship.
- Working proficiency in English.

#### We offer:

- A flexible and dynamic start-up work environment.
- A highly international, diverse and highly motivated team.
- Personal responsibility in your job and the chance to grow with us.
- Our passion to bring PICs to every day's life.

**Activity rate:** 100%

**Place of work:** Corbeil Essonnes (FR)

**Start date:** July 2023

#### How to apply:

We look forward to receiving your full application using reference 2317-DE, including 1) your CV, 2) a statement of interest (relating the position to your skills) and 3) grade or work certificates to [hr@ligentec.com](mailto:hr@ligentec.com). Non complete applications may not be considered.

