



Photonics IC Team Lead

Sicoya is a technology leader in silicon photonics-based interconnect solutions with headquarter in Berlin, Germany. We offer cointegrated semiconductor chips for next generation data centers using our in-house PIC and EIC design capabilities and large-volume CMOS foundries as manufacturing partners. The team consists of highly professional design engineers and managers with many years of experience in bringing state-of-the-art products to the market.

As a **Photonics IC Team Lead** at Sicoya, you will work in a highly international environment and dive into a unique challenge, as you are involved in the design and the development of the next generation of optical transceivers chips. The main task is to develop PIC specifications and architectures for target line rates of 200 Gb/s and 400 Gb/s and lead a team of designers to bring the chips from development into volume production.

Start: asap

Employment: Full time

Experience: 6+ years of industry experience

Your tasks:

- Lead a team of PIC designers to execute chip projects from requirements specifications to volume production
- Discuss application requirements with customers and breakdown into chip-level specs
- Definition and design of application-specific PIC architectures
- Progress tracking and verification of PIC designs and characterization results
- Perform system-level channel simulations in close collaboration with EIC and system engineering groups
- Define design methodologies and design environments

Required profile:

- PhD in electro-engineering, physics or equivalent
- Experience in PIC lead and design flow from specification to product
- Detailed knowledge of chip-level photonic design principles for DFM-maturity with a strong commitment to product quality and reliability
- In-depth understanding of FDTD methods, Eigenmode expansion, and TCAD simulations
- Experience in RF circuit design
- Extensive experience with a variety of PIC/EIC design tools like the Lumerical suite and HFSS
- Programming experience in an object-oriented language
- Proactive problem-solving skills
- Team player that thrives in a dynamic working environment
- Strong technical and verbal/written communication skills
- Professional working proficiency in English is mandatory and knowledge of German would be an asset

What we offer:

- High degree of personal responsibility within a flat company hierarchy
- Ambitious internationally expanding team
- Various future career opportunities for every career level
- An inspiring working environment with flexible working hours, lounge area, free drinks and fruits
- Fascinating opportunity in an international high-tech environment in Berlin



Are you interested in working with us? Then we may just be waiting to hear from you. Please send us your CV and a motivation letter by email to: jobs@sicoya.com

Sicoya is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to gender, race, color, ethnicity, national origin, religion or belief, sexual orientation, disability or age.