Senior Photonics Design Engineer

About the company

Qplox is a fast-growing company offering test and automation engineering. Headquartered in Leuven, with offices in Barcelona and Eindhoven.

Our clients are major multinational enterprises and local companies from automotive, semiconductors, RF, consumer electronics…. Our Test automation group offers a one stop shop for design of automated test benches, system integration production, lab automation and data acquisition systems, with a growing focus in IoT sensor networks.

Our consultancy department offers services in RF, semiconductors and electronics design and test, as well as on the crossing roads of Nanotechnology, Bio-Science Engineering and Biotechnology.

Job Description

Join our client´s team to design, model, and validate advanced silicon photonic components. Lead innovative R&D projects and contribute to groundbreaking applications like 6G, RF/mmWave photonics, and photonic neural networks.

Responsibilities

- Work as part of a team of photonic engineers and product designers dedicated to developing silicon photonics device and product portfolio.
- Lead new projects from R&D stage toward new products introduction (NPI).
- Design and model photonic components and circuits.
- Contribute to chip design reviews to assure that designs meet defined specifications.
- Validate designs by defining test plans and performing statistical analysis of measurement data in the R&D phase.
- Contribute to the definition of new concepts and PIC-based system architectures for novel applications (e.g., ultra-high-speed transceivers, 6G photonics, RF/mmWave photonics, 3D/4D image sensing, photonic neural network, IMU sensors etc.)
- Work closely with local processing and test teams, as well as with global based component/module teams.
- Perform literature reviews and participate to conferences to continuously support our R&D activities with new ideas and solutions.

Location: Ghent (Belgium)

Candidate Description

- Comprehensive knowledge of integrated optics and optoelectronics.
- Design and test of silicon photonics and III-V components.
- Working knowledge how to model PIC-based architectures and systems for optical data processing and sensing applications, including but not limited to RFICs, CMOS driving circuitry, as well as active components such as laser sources and photodetectors.
- Proven track record of project management skills.
- Experience in technical feasibility studies of exploratory R&D projects as well as market/business landscape analysis would be an asset.

- Hands on experience with photonics modelling tools (e.g. Photon design, Lumerical, COMSOL, CST).
- Hands on experience with layout tools (e.g. Tanner L-Edit, Luceda Ipkiss).
- Experience with Luceda Ipkiss would be an advantage.
- Experience with Python would be an asset.
- Experience with VPI software would be an advantage.
- Education requirements: Ph.D. in Photonics, Electrical Engineering, Physics, or related field, and 2+ years of work experience in the R&D industry.
- Strong communication skills, including intercultural communication.
- Fluent in English, both spoken and written.
- Desirable skills: Exploratory mindset, time management, strong team player, proactive, creativity in problem solving.

We offer

An attractive salary package with extra benefits. A high tech, multicultural and young ambient. A fast track in a growing company. Formation in multidisciplinary environment plenty of learning opportunities.

Contact

Send your CV and application letter to jobs@qplox.com with the subject ¨**Senior Photonics Design Engineer**¨.