
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

Our client is seeking a highly skilled and experienced R&D Silicon Photonics (SiP) Process Architect to lead the integration of active components into our Silicon Photonics platform. The successful candidate will play a key role in defining new process architectures, developing fabrication processes, and ensuring seamless integration of new active photonic devices into our systems.

Responsibilities

- Set up new process module architectures for active devices of our latest Silicon Photonics platform.
- Develop integration schemes of new active components including modulators, photodetectors, semiconductor optical amplifier, and other optoelectronic devices.
- Collaborate with device design and fabrication teams to ensure compatibility of active components with the overall platform architecture, optimizing device performance and yield.
- Lead the design and optimization of process flows for active component integration, considering factors such as material compatibility, device performance requirements, and manufacturing scalability.
- Conduct feasibility studies and prototyping experiments to evaluate new process technologies and methodologies for improving the integration of active components into the Silicon Photonics platform.

Location: Ghent (Belgium)

Candidate Description

- PhD. or master's degree in Photonics, Physics, Materials Science, Electrical Engineering or a related field with a focus on Silicon Photonics.
 - Proven expertise in process architectures for active devices **is a must**, with a strong understanding of fabrication processes and device physics.
 - Demonstrated knowledge and experience in Silicon Photonics integration, including the ability to address challenges related to material compatibility, device co-integration, and platform scalability.
 - Experience in process development and optimization, particularly in the context of Silicon Photonics or semiconductor device manufacturing.
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- Proficiency in design and simulation tools for Silicon Photonics devices, such as Lumerical, COMSOL Multiphysics, or equivalents are considered advantageous.
 - Experience with Microelectromechanical Systems (MEMS) integration is considered advantageous.
 - Fluent in English, both spoken and written.
 - Desirable skills: Strong problem-solving skills, ability to innovate novel solutions, Strong communication skills, time management, proactive.

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 "**R&D Silicon Photonics (SiP) Process Architect**".
