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## 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.

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## Job Description

Our client is seeking a Photonics Design Expert to lead innovative R&D projects and develop cutting-edge silicon photonics products. Design, model, and validate advanced photonic components for next-gen technologies like 6G 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 concept studies as well as product development 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.
- Guide the definition of PIC-based system architectures for novel applications (e.g., new materials for high-baud-rate transceivers, optical DSP, 6G photonics, RF/mmWave photonics, photonics for AI, 3D/4D image sensing, photonic neural network).
- Work closely with local processing and test teams, as well as with global based component/module teams.
- Interact with stakeholders to secure funding and resources for new R&D project execution.
- Perform literature reviews and participate to conferences to continuously support our R&D activities with new ideas and solutions.

Location: Ghent (Belgium)

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## Candidate Description

- Sufficient knowledge of integrated optics and optoelectronics components and systems.
  - Design and test of silicon photonics and III-V components.
  - Working knowledge of how to integrate PICs with EICs, RF ICs, and driving circuitry in transceiver modules or equivalent sub-system applications.
  - Proven track record of project/product management skills, bringing new components or systems to market in volume production.
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- Experience in product development (spec. definition, yield improvement strategies, customer-oriented attitude, business acumen for new business opportunities) would be an asset.
  - Experience in effective communication with stakeholders to secure internal funding for new R&D projects as well as market/business landscape analysis.
  - 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 advantage.
  - Experience with VPI software would be an advantage.
  - Education requirements: Ph.D. in Photonics, Electrical Engineering, Physics, or related field, and 5+ years of work experience in the photonics industry.
  - Strong communication skills, including intercultural communication.
  - Fluent in English, both spoken and written.
  - Desirable skills: adaptability, time management, strong team player, customer centric, creativity in problem solving.

## We offer

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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.

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## Contact

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Send your CV and application letter to [jobs@qplox.com](mailto:jobs@qplox.com) with the subject "**Photonics Design Expert**".

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