

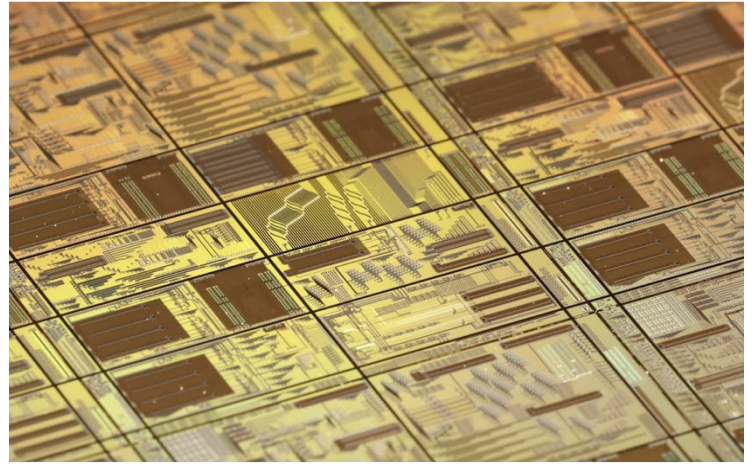
Senior PIC Design Engineer for Advanced Opto-Electronic modules

Country: Italy

City: Vimercate (Milan)

Job Field Area: R&D

Experience Required: 2-5 years



Nokia is committed to innovation and technology leadership across mobile, fixed and cloud networks. Your career here will have a positive impact on people's lives and will help us build the capabilities needed for a more productive, sustainable, and inclusive world. We challenge ourselves to create an inclusive way of working where we are open to new ideas, empowered to take risks and fearless to bring our authentic selves to work.

The pandemic has highlighted how important telecoms networks are to society. Nokia's Network Infrastructure group is at the heart of a revolution to bring more and faster network capacity to people worldwide through our ambition, innovation, and technical expertise. Nokia Advanced Optics team develops optical front ends for next generation optical coherent systems for metro as well as long-reach subsea communication links. Within our supportive and innovative work environment you will find space for individual thinking and creativity to ensure quality and reliability of our highly integrated products.

Position Description

Are you passionate about anticipating and solving problems? Are you a collaborative team player who can work independently? We are currently looking for Silicon Photonics Design Engineers to engage in the research and development of silicon photonics integrated circuit technology. As a Silicon Photonics Design Engineer you are responsible for the development process for complex photonic devices and systems-on-chip, from design through fabrication, testing and analysis. As a member of our silicon photonics design team, you'll be working alongside other experienced silicon photonics designers with strong records of delivering innovative photonic device designs and large-scale silicon photonics circuits.

Your main activities will be:

- Lead or support the design of active and passive photonic devices and/or complex photonic integrated circuits and systems
- Develop new design approaches and innovate on both device-level design and system-level optimization
- Interact with fab partners
- Contribute to test development and lead the test data analysis of your devices to correlate design with measurements
- Collaborate with all other functional teams in the organization to deliver co-designed and co-optimized photonics systems

Position Requirements

As applicant you should be in possession of M.S. or Ph.D. in electrical engineering / physics / applied physics / similar quantitative fields and bring as main skills:

- Solid understanding of general concepts in fiber optics and integrated optics
- Solid programming skills in Python or C/C++
- Good understanding of general concepts in physics, especially in optics or electromagnetics
- Experience with designing or characterizing silicon photonic or other integrated optical/optoelectronic devices or circuits
- Very good English skills fluent in spoken and written
- Good communication skills
- Ability to work effectively and respectfully with diverse teams across multiple locations worldwide internally and with external partners

It would be nice if you also had:

- Proficiency with optics design tools, such as Lumerical
- Solid numerical and physics-related programming skills
- Experience with high-frequency design and modeling
- Experience with epitaxial growth and design
- Experience with controls theory and implementation

Interested? Please apply at careers.nokia.com with job code 22000002BH. If you have any questions regarding this position, please contact Paola Galli (paola.galli@nokia.com).

