

Senior Photonics Engineer

Are you eager to make an impact on the future of sensing and communications and be part of a dynamic start-up at the forefront of technology? For expanding our team in Karlsruhe, Germany, we are looking for talented photonics engineers with strong analytical skills and a solid background in the design and characterization of photonic ICs (PICs).

The company

We are a privately held Swiss/German high-tech start-up with a highly distinguished technology portfolio in innovative laser and frequency-comb technologies and associated solutions for industrial, automotive and scientific applications. Our products range from silicon nitride-based ultra-narrow-linewidth lasers to lithium niobate-based frequency-modulated lasers, to Kerr comb generators, enabling hyperscale optical communications, fiber sensing, light detection and ranging (LiDAR), high-resolution spectroscopy, and ultra-broadband signal processing. Our ambition is to push the boundaries of photonics by focussing on precision and reliability and by improving efficiency and performance, serving a highly distinguished international customer base. |

Job description

- Design, simulations, and layout of integrated photonic devices for lasers and Kerr comb solutions.
- Develop characterization setup and contribute to characterization and test effort of ultra-low noise lasers and Kerr comb PICs.
- Participation in the mechanical design of the prototypes.
- Reporting and documentation of system development progress.

Your Profile

You enjoy an autonomous work environment where you can take ownership and make a difference, and are eager to continue independent learning. Beyond a curious and open mind and a sense of accountability for your work, candidates should possess the following qualities:

- MSc + 4 or PhD in physics, photonics or adjacent fields.
- Experience in one or more of the following areas : III-V semiconductor lasers and optoelectronics, silicon photonics design, nonlinear photonics/Kerr frequency combs, RF engineering, optical/electrical packaging, photonics system design, photonics devices testing, electronics.
- Experience with FDTD simulators, GDS design tools, Python/MATLAB.
- Knowledge in development of electronic and photonic subsystems, and system control software would be a plus.
- Industrial experience preferred.
- Excellent proficiency of English, fluency in German highly desirable.

We offer

- The opportunity to define and shape from ground a high-tech company in integrated photonics technology for LiDAR, sensing, industrial metrology, and space communication.
- A place where you can develop your skills in a growing team committed to Agile methodologies with the room to take ownership and to bring in your ideas.
- Continued learning, both through on-the-job training and formal training.
- Competitive compensation and a flexible and inspiring work culture, in the beautiful location of Karlsruhe, Germany.
- Activity rate: 80-100%.
- Start date: As soon as possible.

Application

Please submit your application by filling out the form at the following link: [application form](#)
Only candidates with right to work in the EU will be considered.

- We are a small team fully committed to addressing our current business requirements. Consequently, the review and interview process may take some time. Thank you in advance for your patience and understanding.
- Rest assured that if your background and experience meet the requirements of the position, we will reach out to you. If not, please accept our apologies for not being able to respond to all candidates. We greatly appreciate your interest in our company.
- Once the position has been filled, we will delete all applicants' data within the next six months, unless you request an earlier deletion.