We are hiring

Vacancy Photonics Engineer- Ultrafast Pulse Shaping

Location & start date

This role will be on-site, in our office and lab in Enschede, The Netherlands.
The anticipated start date is March 2026.

About us

SuperLight Photonics is a fast-growing deep-tech company that develops breakthrough broadband light sources on a chip (PIC). Our technology brings the performance of bulky laboratory lasers into a compact, efficient, and scalable form, enabling new applications in OCT imaging and spectroscopy.

As a small but rapidly growing organization, we value creativity, initiative, and collaboration. Our team of seasoned professionals is dedicated to pushing the boundaries of technology, and we are seeking a like-minded individual to join us.

About the Photonics Engineer role

To strengthen our engineering team, we are looking for a Photonics Engineer with deep expertise in ultrafast seed lasers, amplifiers and pulse shaping and compression to create optimal pulses for our PIC-based spectral broadening.

As a Pulse Shaping Engineer at SuperLight Photonics, you will be responsible for designing, implementing, and validating techniques to control the intensity, temporal and spectral characteristics of optical pulses, with a clear path toward integration and productization.

Your responsibilities include:

- Designing and optimizing optical pulses as input to create non-linear effects in our chips, using components such as ultrafast seed lasers, amplifiers and dispersive elements
- Conceptualize different architectures and evaluate on performance, cost, timeline, risk towards series products, and a roadmap towards higher on-chip integration levels
- Work in close collaboration with our product development team and suppliers, translating system-level specifications into component-level specifications.
- Characterizing ultrafast optical pulses, analyzing and mitigating dispersion, chirp, phase noise
- Simulation of dispersive elements, translating into manufacturable designs intended for series production
- Supporting customer projects and providing technical input during evaluations and pilots

What we are looking for

You are an experienced photonics engineer who enjoys combining deep photonics knowledge with application-driven engineering and has a focus on productization. Additional experience in adjacent fields such as electronics or software is useful.

Your profile

- MSc or PhD in Photonics, Applied Physics, or similar
- Strong background in ultrafast lasers, amplification pulse shaping and compression
- Minimum 3 years of relevant experience, preferably in a commercial environment working in product development
- Hands-on experience with optical lab setups, pulse characterization, and software as Matlab, Phyton, Lumerical
- A structured, analytical, and application-driven mindset
- Strong verbal and written communication skills in English
- Positive, can-do attitude
- Comfortable to work in a fast-paced environment
- The job requires that the candidate is eligible to work in the Netherlands and lives in or close to Enschede

What we offer

- Competitive salary: reflecting your experience and qualifications
- Innovation culture: the opportunity to work with cutting-edge technology
- Impact: dynamic, hands-on environment where your work has visible impact
- Professional growth: continuous learning and development within a supportive team
- Flexible work environment: we value balance and offer flexibility to meet individual needs
- Opportunity to grow your career alongside us in a rapidly growing company

Join us in shaping the future of photonics and contributing to our continued success in the global market. If you possess the expertise, passion, and determination that we are looking for, please send your CV and cover letter to elly.schietse@superlightphotonics.com.

SuperLight Photonics is committed to diversity and encourages applications from all qualified candidates, regardless of age, gender, ethnicity, or disability.

SuperLight Photonics only works with pre-qualified recruitment agencies.