

Application Development Engineer

Join the pioneers of PhotonFirst

Since 2006 PhotonFirst (formerly Technobis) is pioneering in the research, development, engineering and production of Integrated Photonics Sensing modules and systems for a broad range of critical applications in aerospace, medical equipment, mobility, energy, and high-tech systems. Since January 1st, 2021, the photonics activities have been carved out to prepare for a fast growth to a leading worldwide position in its field. PhotonFirst is an innovative, pioneering company in integrated photonic sensing, with a technology that is unlocking the power of the photon in a wide range of applications. In order to find the solutions needed in different markets, the Application Development Engineer will translate the innovative technology into real-life solutions.

You provide the solution to the customers sensing need

At PhotonFirst, the Application Development Engineers bridge the gap between the available technology and the customers need for a solution. You are a key player in the entire application development trajectory: from understanding the requirements of the customer, to translating these into the technical requirements of the system, designing & testing the system, and making sure that the customer is satisfied with the delivered solution.

Your tasks & responsibilities are broad

- Communication with the customer; to ask the right questions to define the proper user requirements
- Providing technical output by translating user application needs to comprehensive system requirements, using your strong analytical skills.
- During the detailed design phase, you work closely together with the (software) development team to come to a complete solution for our customer.
- You continue building the process of standard validated components to be used for application solutions, and you are eager to contribute to the innovation of new components.
- In line with our DNA, you like a challenge and use your creativity to come up with an innovative design, from an early concept to detailed descriptions.
- Setting up technical specifications with well-defined tolerances and clear views for the needed components.
- Setup and execute the test plan to validate the designed system configuration
- Translate theoretical knowledge into practical solutions and clearly report the results/conclusion.

Direct reporting line

The Application Development Engineer reports to the Team Lead Application Development, Projects & Support.

Relevant requirements regarding knowledge and experience

Education

- University (WO) or University of Applied Science (HBO) degree in Applied Physics, Biomedical- or precision engineering with an affinity for photonics.

Experience/skills

- You are an assertive team player, and take ownership of the assigned projects
- 3 or more years of experience as an engineer or system architect
- Knowledge of the application of photonics or able to learn quickly
- Analytical skills; you have the ability to translate complex requirements into a system design
- Experience with a professional quality management system: structured system development according to a process, document revision control, reviews and release control
- Knowledge of documentation: requirements, system design descriptions, risk analysis, validation test plans
- Able to work in a structured manner in lab, handle components carefully and have an eagerness for quality
- Excellent verbal and written skills in English; ability to write reports and documents such as user requirements, system design descriptions, risk analysis, validation test plans and clearly present them to the team/customer.
- Proficiency in Microsoft Office (PowerPoint, Word, Excel)
- Programming skills: MATLAB and/or Python

Availability

This is a job in a fast-growing company. We prefer a fulltime commitment but we are open to 32-36hrs as well. You work from our Alkmaar headquarters.

Personality characteristics

PhotonFirst is a young and maturing professional organization. We have developed a strong pragmatic team mentality in which we work and experiment together to achieve common goals. We are looking for a wide diversity of people coming from different backgrounds to join our organization. We have formulated the following personal traits contributing to our professional mentality:

- Passionate team player taking ownership
- Open, straight, result driven and can-do mentality
- Pioneering, creative, flexible, and entrepreneurial
- Perseverant, professional, and well structured
- Friendly & 'fun to work with'

Contact us to learn more

Should you have any questions about the role, the team or PhotonFirst, please don't hesitate to contact Michael Haverdings (Team Lead Application Development, Projects & Support) or our HR&O Manager, Sjoukje Blom (recruitment@photonfirst.com) via +31 85 0076700.