

## 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 needs to 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 teaming up with sales, to understanding the requirements of the customer, to translating these into the technical requirements of the system, designing & testing the system, making sure that the customer is satisfied with the delivered solution and to follow-up in support.

### Your tasks & responsibilities are broad

- Clear and effective communication with the sales team and the customer; to ask the right questions and 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 solution and clearly report the results/conclusion.
- Provide timely support to the customer when needed.

### 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 and/or 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](mailto:recruitment@photonfirst.com)) via +31 85 0076700.