

Application Engineer (CAD, Hardware)

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 Engineer needs to translate the innovative technology into real-life solutions.

You provide the solution to the customers sensing need

At PhotonFirst, the Application 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, the technical design of the system, testing the system, making sure that the customer is satisfied with the delivered solution, and to follow-up in support. You build and deliver customer specific applications based on our pre-designed modules of hardware and electronics.

Your tasks & responsibilities are broad

- You are responsible for the hands-on mechanical integration of the solution. You are able to train the customer to do the same. You provide pragmatic solutions for complex problems.
- You bring the idea into realization. You translate the user application needs to comprehensive system requirements, and provide the solution from design to realization.
- During the application development phase, you work closely together with the development team to come to a complete solution for our customer.
- You are responsible for setting up technical specifications, creating CAD models and drawings with well-defined tolerances and clear views for the needed components.
- You setup and execute the test plan to validate the designed system configuration
- You translate theoretical knowledge into a practical solution and clearly report both internally and externally the results/conclusion.
- You provide timely support to the customer when needed, including on-site assembly support.

Direct reporting line

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

Relevant requirements regarding knowledge and experience**Education**

- University of Applied Science (HBO) or University (WO) degree in Mechanical engineering or similar.

Experience/skills

- You are an assertive team player, and take ownership of the assigned projects.
- You have 3 or more years of experience as a mechanical or development engineer.
- You have experience in modelling using SolidWorks. You have experience in creating technical drawings for manufacturing purposes.
- You have affinity with handling miniature assemblies and have an eye for perfection on sub-millimeter level; you have experience with manual precision assembly.
- You have knowledge of the application of fiber-optics or able to learn quickly.
- You have a realization mind-set: you are analytically skilled and have the ability to translate complex requirements into a system design, with a sharp focus on realistic feasibility.
- 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).

Pré

- Affinity with photonics, physics and measurement systems in general.
- Affinity with rapid prototyping and the versatility of assembly methods.
- Affinity with electronics and working in an EPA

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 preferably work from our Alkmaar headquarters, but we also have a hybrid working policy allowing you to work up to two days from home when the work permits.

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.