

## JOB DESCRIPTION – PRODUCT DESIGN ENGINEER

### Company Overview:

Amphenol Active Optics Products (AOP), a leader in fiber optics transceivers, has been pioneering advancements since 2003. Based in Berlin, Germany, we cater to diversified sectors like Datacom, Super Computing, Military, and Aerospace with cutting-edge Optical Engines, On-board Transceivers, and Active Optical Cables. Part of the globally renowned Amphenol Corporation, our dynamic environment is driven by innovation and supported by a workforce of over 100,000 employees worldwide.

### Company Address:

FCI Deutschland GmbH / Amphenol Active Optics Products  
Holzhauser Strasse 175  
13509 Berlin  
Germany

### Position: Product Design Engineer

### Role Overview:

We are seeking a **Product Design Engineer (Transceivers)** to develop state-of-the-art high-speed electronic transceivers for demanding **data communications** and **military/aerospace applications**. This role involves the design, simulation, testing, and optimization of **high-speed optical and electrical interconnect solutions**, ensuring exceptional performance in challenging operational environments. In this role, you will support all project phases, **from product specifications to production release**. You will work closely with a skilled team of mechanical, software and process engineers.

### Key Responsibilities:

- Design high-speed transceiver circuits including **RF, analog, and mixed-signal** blocks for **fiber optic and copper-based interconnect** solutions.
- Develop **electrical schematics and PCB layouts**, ensuring compliance with electrical, mechanical, and thermal constraints.
- Select and test components
- Perform **signal integrity (SI), power integrity (PI), and electromagnetic interference (EMI/EMC) simulations** to optimize design performance.
- Work with **high-speed interfaces** (10G, 25G, 100G, 400G+ Ethernet, PCIe, Infiniband, etc.).
- Work closely with **mechanical, process and software engineers** for holistic transceiver integration.
- Support manufacturing teams during **NPI (New Product Introduction)** and resolve production issues.

#### Desired Skills and Qualifications:

- Master's, or Ph.D. in Electrical Engineering, Electronics, RF/Microwave Engineering, or a related field.
- Minimum 3+ years of experience in high-speed electronic design for data communications.
- Strong experience in circuit design, PCB design and layout.
- Strong knowledge of optoelectronic devices.
- Knowledge of fiber optics communication systems
- Good knowledge of digital technology and embedded design
- Relevant knowledge of high-speed analog circuitry (laser driver, TIA)
- Relevant knowledge in the area of signal integrity
- Strong understanding of passive optical components
- Team player attitude
- Strong organizational skills
- Strong English language skills (oral and written)
- Proficient use of Cadence® Allegro® PCB development system

#### Benefits:

- **Competitive Salary:** We offer an attractive salary package that matches the experience level and skills of our employees.
- **Innovative Environment:** Work at the forefront of technology with state-of-the-art opto-electronic solutions.
- **Local Position:** This role is based in Berlin, with the opportunity to collaborate directly with our engineering teams.
- **Career Growth:** Access continued learning and development opportunities within a leading international company.
- **Vacation:** Enjoy 30 vacation days per year.
- **Flexible Working Hours:** Benefit from flexible working arrangements to balance professional and personal commitments.

Join us for a thrilling opportunity to innovate with a passionate team on the next generation of technologies. Amphenol AOP invites motivated individuals ready to drive technological advancement in a global context.

#### Contact Information:

For more information or to apply, please contact:

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