

February, 2026

## Job Position: Opto- Mechanical Engineer

**Job ID:**

**Location:** Madrid-Spain

**Experience Level:** >5 years

**Education Level:** Bachelor's or master's degree

**Type of Contract:** Full-Time Regular

**Travel Percentage:** Not Applicable

### About the job

Semiconductor supplier KD provides innovative high-speed optical networking for harsh environments. Making gigabit communications over fiber optics a reality, KD technology supplies multi Gb/s optical links for automotive industrial, and home networks.

Founded in 2010 in Madrid, Spain, KD offer its cost-effective technology as either ASSP or IP (Intellectual Property) to be integrated in SoCs (System-on-Chips).

KD has about 75 employees, we are in full expansion due to the development of innovative products in the sector and the creation of a unique factory in Spain.

As a result, we are looking for an Opto- Mechanical Engineer.

Please find below the responsibilities, profile, conditions and other details of the position:

### These are your tasks:

- Design and implementation of optical measurement test benches, mechanical interfaces, compact beam-delivery setups.
- Design and validation of optical connectors and collaboration with other companies to develop the fiber optic connector eco-system.
- Perform optical and mechanical simulations (VCSEL/PD to fiber coupling, beam propagation, thermal and vibration sensitivity, mechanical stiffness, etc.).
- Component reliability and qualification testing.
- Develop mechanical/optomechanical test procedures.
- Geometrical measurements and inspection of Fiber Optic Transceivers (FOTs), connectors, boards, etc., by using digital microscope and CMM equipment.
- Assembly, alignment, and characterization of optical modules.

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- Develop stable free-space optical layouts (beam shaping, splitting, polarization management, mode-matching, fiber coupling).
- Development of assembly process, fixtures and tooling, including tolerance analysis and edition of detailed mechanical drawings and assembly documentation.
- Support transition from R&D prototypes to manufacturable, production-ready sub-systems.

#### **What you bring with you:**

- Education: BSc/MSc in Optics, Physics, Mechanical Engineering, Electrical Engineering, or related field.
- Experience: A minimum of 5 years' experience in Opto-Mechanical field.
- Hands-on experience in building, aligning and testing optical and opto-mechanical setups and assemblies is required.
- Experience with optical simulation tools (Zemax/OpticStudio, CodeV, or Python/MATLAB beam-propagation tools) is required.
- Ability to generate clear documentation: assembly drawings, alignment procedures, test reports.

#### **Desirable competences:**

##### **Knowledge & Skills:**

- Programming skillsets using Python or Matlab for numerical models and data analysis using libraries such as numpy, scipy and pandas is required.
- Experience in mechanical design and simulation using modern 3D design software like Ansys Mechanical, Solidworks, Autocad, Catia, Inventor or similar.
- Familiarity with Geometric Design & Tolerancing (GD&T).
- Analytical skills, including data analysis.
- Knowledge of version control software is welcome.
- Fluent written and verbal English communication skill is a must: all internal documentation is written in English.

##### **Personal Profile:**

- Continuous search for technical excellence.
- Passion for learning from experience.
- Critical and constructive attitude.

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- Capability to accept system design responsibilities.
- Proactive (problem solving) attitude.
- Team membership attitude.

**With us you can expect:**

- Development and growth: we offer development and training opportunities in a fast-growing start-up company.
- Financial stability: With us you receive performance-related pay, health insurance as well as other company benefits.
- Work-life balance: A concern that is part of the company's culture. We offer the possibility of hybrid work and flexible working hours and the opportunity to work in a modern workplace in an excellent location in Madrid (Tres Cantos).
- Working together: we are a friendly team with a shared passion for technology. We focus on building personal connections through team events and networking activities between teams.

**Employment benefits:**

- Flexible working hours, intensive working hours on Fridays and the three summer months.
- 10 hours of telework per week.
- Free Medical insurance for the employee and discounts for family members
- English/Spanish classes free.
- Ticket Restaurant option
- Company social events.
- Training plan and development opportunities

**Employment conditions:**

- Indefinite full-time contract.
- 24 working days holiday.
- Dynamic and collaborative work environment, with ambitious and innovative projects.
- Flat hierarchies and open communication.
- A very good working atmosphere with competent, motivated and friendly colleagues, open to the international level.
- Location: Madrid (Tres Cantos).
- Salary: To be negotiated based on candidate's experience.

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