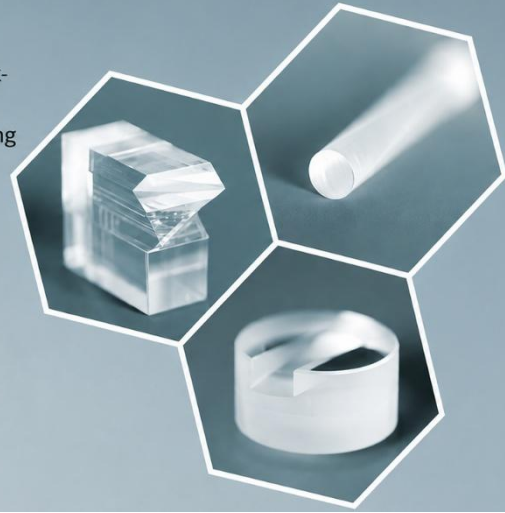




feinwerkoptik **zünd**

Die Feinwerkoptik Zünd AG entwickelt und produziert Photonik-Systeme für die Medizin, Technik, Luft- und Raumfahrt. Ihre Kernkompetenzen liegen im Optik-Design und in der Herstellung miniaturisierter optischer Komponenten und Systeme.



We are seeking a highly motivated Optical and Optomechanical Engineer with a strong system engineering mindset to join our multidisciplinary team. This role combines optical design, mechanical integration, and system-level thinking, with a strong emphasis on collaboration, innovation, and practical implementation.

Optic-Optomechanics Engineer / Optical Systems Engineer (m/w/d)

Your Responsibilities:

1. System Design & Modeling:
 - Develop and design photonic systems (optics and optomechanics) based on customer requirements and application needs.
 - Optimize designs with respect to performance, manufacturability, and cost.
 - Design optical components such as lenses, mirrors, and filters for integration into complex systems.
 - Continuously improve and refine optical design methods and algorithms.
 - Collaborate closely with project leader, production team and customers to ensure seamless optical and optomechanical integration.
 - Contribute to system-level integration, including electronics, firmware, and software interfaces.
2. Manufacturing & Production:
 - Develop and define manufacturing processes for optical and photonic systems.
 - Support production activities including inspections to ensure compliance with quality standards.
 - Identify and implement process improvements to increase efficiency and reduce cost.
 - Researching and procuring optical and optomechanical components.
3. Project Support:
 - Contribute to project planning, scheduling, and cost estimation.
 - Support customer projects from concept through to production readiness.

Your Profile:

1. Technical Skills:
 - Degree in Optical Engineering, Photonics, Physics, or a related field.
 - Strong experience in optical system design and optomechanical integration.
 - Strong problem-solving skills with the ability to analyze complex technical challenges and develop practical, efficient, and innovative solutions.
 - Proficiency in optical design tools (e.g., Zemax, Code V) including CAD modelling softwares (e.g. Fusion360, SolidWorks) and understanding of tolerancing and performance analysis.
 - Intermediate to advance programming knowledge (e.g. in Python, C#).
 - Knowledge of manufacturing processes for optical components and assemblies, including design for manufacturability (DfM).
 - Familiarity with quality and optical component standards (e.g. ISO10110) and validation methods for optical systems.
 - System engineering mindset with the ability to understand cross-domain interactions.
 - Experience working in interdisciplinary teams (mechanics, electronics, software).
 - Fluency in German and English.
2. Personal & Team Fit:
 - Strong team player with a collaborative mindset; supports colleagues beyond defined responsibilities.
 - Open, approachable, and contributes to a positive, formal and informal working atmosphere.
 - Clear and effective communication skills in German and English, both internally and with customers.
 - High level of curiosity and willingness to learn; actively follows developments in photonics and optical technologies.
 - Maintains a calm, solution-oriented attitude in day-to-day work; handles challenges constructively.
 - Takes ownership of tasks while remaining flexible and supportive within the team.
 - Engaged personality which contributes to a well-balanced and motivated team culture.

What We Offer:

- A company with over 30 years of expertise in the development and manufacturing of miniaturized optical components and photonic systems.
- Involvement across the full product lifecycle, from concept development to production.
- A dynamic and collaborative working environment with a strong team spirit and cultural values.
- Opportunity to work on innovative and challenging projects in photonics, optics, and system engineering.
- Flexible working conditions, including the possibility to work from home office.
- Support in personal development and further education.