
Company

Menhir Photonics is a dynamic Swiss laser manufacturer offering laser solutions of unprecedented robustness and reliability to customers around the globe. Based in Zurich, Switzerland, our team has strong expertise in the development and production of ultrafast lasers for the markets of aerospace, telecom, and metrology. For our ambitious business scale-up we are looking for a **Mechanical Engineer**.

Job Description

Your primary duties and responsibilities:

- Leading technical projects
- Design CAD sub-assemblies and interfaces to larger CAD assemblies for optomechanical components and optoelectronic subsystems
- Perform rigorous tolerance analyses to ensure mechanical feasibility of the designs
- Create detailed, tolerance 2D drawings with FAI (First Article Inspection) for optical & mechanical components based on design for manufacturing considering supplier's fabrication methods and metrology capabilities
- Evaluate and select materials capable of achieving high-quality module performance while suitable for mass production
- Travel to and work with overseas suppliers to manufacture components and assist with failure analysis
- Understand the health, safety, and environmental requirements and regulations
- Support high quality standards and practices according to ISO9001



Experience and Education

Your background:

- **Bachelor's or Master's Degree in Mechanical or Optomechanical Engineering**
- Knowledge of mechanical and thermal properties of glass, plastic, metal, and electrical component materials commonly used in optical modules
- Familiarity with CAD (SolidWorks) and PDM (3DEXperience) software
- Knowledge of epoxies and their material properties
- Strong understanding of GD&T (Geometrical Dimensioning and Tolerancing) and mechanical metrology
- Understanding the basic principles of optics, opto-mechanics and opto-electronics assembly in cleanroom conditions
- Understand structural and thermal FEA (Finite Element Analysis) simulations to evaluate performance and reliability over a variety of conditions

Conditions

- The position is 80% to 100% (34-42 hours/week)
- Onsite
- The workplace is located at our headquarters near Zurich, Switzerland in Dübendorf
- The preferred starting date is as soon as possible (March/April 2025)

Contact

If you are interested in learning more about this opportunity and getting to know us, **please email your CV and cover letter in English and tell us more about why you're a good fit for this position at talents@menhir-photonics.com**. Please reference "MPZH040" in the subject line. We look forward to hearing from you!

Applications will be accepted until March 14, 2025.

Applications from headhunters or third parties will not be considered.