



Come Create and Build with Us!

OptoSigma Corporation
1540 Scenic Avenue, Suite 150
Costa Mesa, CA 92626 USA
+1 949-851-5881
www.optosigma.com
sales@optosigma.com

Mechanical Engineer

Entry Level to 5 Years Experience

Location: On-site

Employment Type: Full-Time

Reports To: Engineering Manager

About OptoSigma

OptoSigma is a leading provider of optical components, opto-mechanics, systems, and solutions for research, development, and manufacturing applications. We specialize in providing high-quality products to various industries, including semiconductors, aerospace, defense, and more. We are committed to excellence, innovation, and customer satisfaction.

Our teams design and build everything from single optical elements to complex multi-element assemblies and systems, working alongside in-house optical, mechanical, systems, electrical, and software engineers. Precision, quality, and hands-on craftsmanship are central to how we work.

About the Role

We're looking for a Mechanical Engineer to support the design and development of precision mechanical and opto-mechanical assemblies, mounts, and positioning systems. This role spans the full product lifecycle — from concept and design through prototyping, testing, and production support — working closely with optical, systems, and manufacturing engineers. We're looking for someone energetic and eager to jump into a wide variety of projects, bringing enthusiasm to solving new problems as they come up.

What You'll Do

- Create and maintain detailed drawings, tolerances, and BOMs for manufacturing.
- Provide customer support for mechanical components and assemblies.
- Design mechanical components and assemblies (housings, mounts, positioning stages, mechanisms) using 3D CAD.
- Build and test prototypes; support design verification and validation activities.
- Work with manufacturing and quality teams to resolve design and build issues.
- Support new product introduction from concept through production release.
- Maintain engineering documentation and support engineering change processes.
- Own and process ECOs (Engineering Change Orders), and support quotation activities for custom products.
- Support the Quality Assurance department regarding inspection and final test requirements as needed.

What We're Looking For

- Bachelor's degree in mechanical engineering or related field.
- 0-5 years of relevant design experience — new graduates with strong fundamentals are encouraged to apply.
- Proficiency with 3D CAD software (SolidWorks or similar).
- Solid understanding of Geometric Dimensioning & Tolerancing, tolerance stack-up, and mechanical design principles.





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- Familiarity with common machining, fabrication, and assembly processes (experience utilizing CNC equipment is a plus)
- Strong problem-solving skills and attention to detail.
- Ability to work cross-functionally with optical, electrical, and manufacturing teams.

Nice to Have (Not Required)

- Experience designing and/or aligning precision or opto-mechanical assemblies.
- Exposure to Finite Element Analysis, ZeMax/Code V, or other simulation tools.
- Experience with prototyping and hands-on build/test.

Benefits

We offer a competitive, comprehensive benefits package built to support your health, financial security, and long-term growth.

- Health, dental, and vision coverage
- Retirement savings plan
- Paid time off and holidays
- Life and disability insurance
- Opportunities for professional growth and development

How to Apply

Please submit your resume and cover letter to dan.denison@optosigma.com & HR@optosigma.com.

