

Job Description

Opto-Mechanical Engineer



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PLX is a company that is rapidly expanding with enhanced growth opportunity available.

As a state-of-the-art optical technology company based in New York, PLX provides vital solutions to fit the demands of a new generation of optical requirements by specializing in the development and manufacture of high accuracy complex optical structures that withstand non-optimal conditions. With a 65-year heritage at the forefront of innovation, PLX continues to transform optics by integrating innovative optical systems into the assemblies of critical defense, space and aerospace platforms. PLX is the leader in development and fabrication of monolithic and invariant optics, and the pioneers of hollow retroreflectors, such as the Lateral Transfer Hollow Retroreflectors and Periscopes (LTHR/LTHP). One of the core technologies is the patented system integration of optical structure technologies, the Monolithic Optical Structure Technology (M.O.S.T.™), which has thermally & environmentally stable sub-arcsecond performance in a compact form factor.

We are looking for a **Opto-Mechanical Engineer** who is highly motivated and responsible for the design of opto-mechanical assemblies. The individual will report to the Director of Engineering.

Responsibilities:

- Conduct cutting-edge product development leading to the generation of new IP
- Design and develop opto-mechanical assemblies and sub-systems.
- Design and build prototypes, create detailed drawings and instructions for production.
- Responsible for technical documentation (Models, CAD drawings, Simulations, BOMs, etc.) relevant to the optical design.
- Work closely with management on products and customer requirements.
- Prepare product technical requirements and specifications.
- Interact with other engineering groups, as well as cross-functional teams such as Manufacturing, Quality Control, and Supply Chain.
- Work on projects independently, and with a multi-disciplined team of scientists, engineers, and technicians.
- Provide technical support to manufacturing, sales, and marketing.

Required Experience:

- BS and/or MS in Opto-Mechanical Engineering or Mechanical Engineering with at least 2 years of related experience
- Hands-on experience and understanding of optics and opto-mechanical best practices.
- Experience with optical tests such as interferometers, beam profilers, and metrology.
- Understanding of optical concepts such as ray aberrations, waves, diffraction, interference, Gaussian propagation, lasers, imaging, etc.
- Willing to share expertise and train others to further the organization.
- Proficient at using Microsoft Word, Excel, Outlook, PowerPoint, and SolidWorks.
- Knowledge of Ansys and ray tracing a plus.
- Able to analyze and synthesize complex or diverse information. Collect and research data. Use mathematical and statistical analysis tools to formulate conclusions and data-driven decisions.

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