



**Optical Support Inc.**  
When Precision Matters

## Optical Engineering Design & Manufacturing Services

Optical Support, Inc. is an engineering services company specializing in design, manufacturing, and precision alignment of optical instruments and custom metrology tooling.

As a vertically integrated small business, OSI has the CNC machining, clean room assembly, and alignment and test capabilities to provide both rapid prototyping and volume manufacturing.

For customers who require expertise in optical and mechanical design, who need to efficiently validate their product designs, and who need to rapidly build their systems, OSI's experienced staff and manufacturing resources can help. Customers can leverage OSI engineering staff's collective experience, spanning decades across a range of industries, to solve complex design problems.

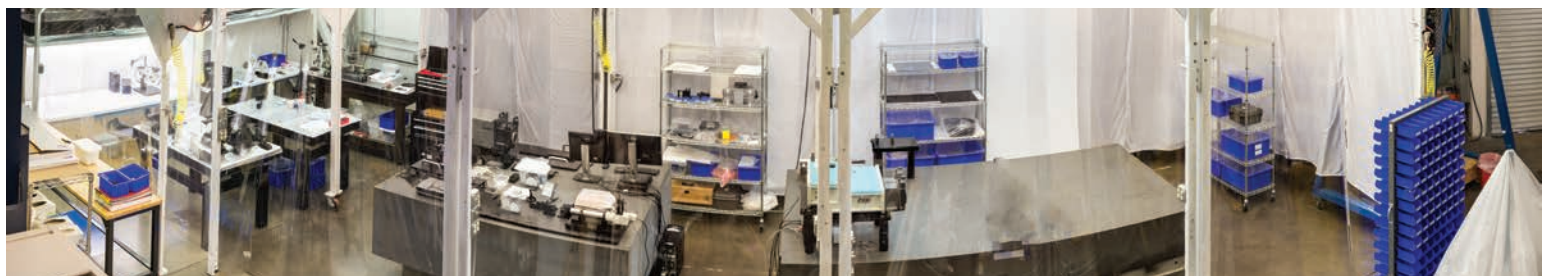
OSI works with your engineering team from preliminary through detailed design, producing first article prototypes and production systems that meet your specific needs.



## CNC Machining

OSI uses industry standard software tools such as Zemax, ASAP, FRED, SolidWorks and MasterCAM, to design and analyze your instrument. CAD models are translated directly to CNC machine code. This critical in-house capability allows for rapid prototyping and design validation of completed optomechanical systems.

OSI's highly skilled CNC machinists and programmers are the key to productivity in our CNC machining facility, which includes: HAAS UMC750, VF-9 and VF-2 vertical milling machines with up to 83 inches of travel, and a HAAS ST-30 Dual-Spindle, live tooling lathe for production of lens barrels and custom hardware.



## Challenging Schedules

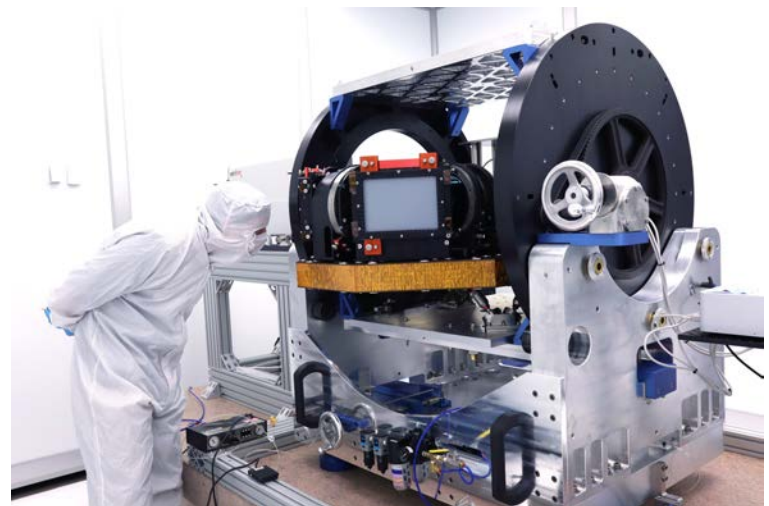
Our vertically integrated solution allows us to realize challenging customer schedules. With engineering and manufacturing under one roof, we rapidly design and build prototype hardware to your specifications while concurrently engineering fabrication and metrology tooling for production. Your next project can start in our facility now.



## Metrology & Cleanroom Facilities

Key metrology tools and instruments include multiple Air-Bearing Alignment Stations, VIS and MWIR Phase Shifting Interferometers, Point Source Microscopes, 5-Axis Programmable and 3-Axis Manual Coordinate Measuring Machines (CMM), Digital Microscopes, Laser Alignment Scopes and an MTF Test Station.

OSI has an 800 sq.ft. Class 1,000 clean room and (2) 350 sq.ft. Class 100 clean rooms with a 6,000lb capacity gantry crane, 6'x8' and 6'x12' granite tables, multiple clean flow benches and optical assembly tables.





## Experience Spans Industries

OSI's core knowledge in optics and optomechanical systems spans a variety of industries from Lawrence Livermore's National Ignition Facility (NIF program) and NASA's James Webb Space Telescope (JWST), to more recent programs providing spaceflight telescopes, lenses and sensors to space & defense, complex wafer metrology products to the semiconductor industry, and state of the art cinematography lenses to the entertainment industry.

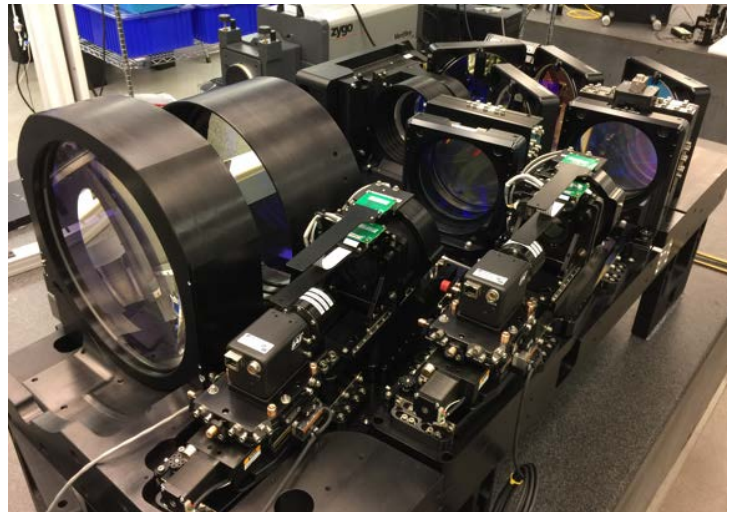
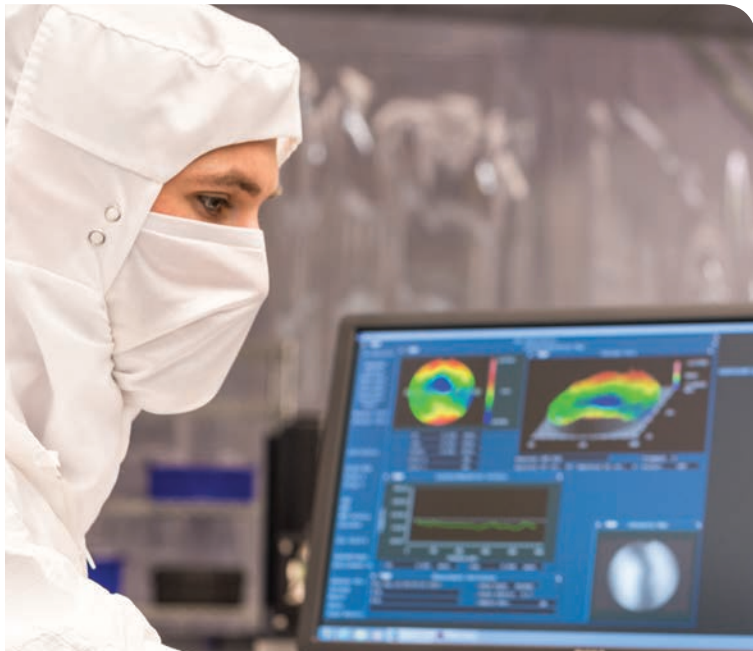


## When Precision Matters

OSI can meet the tightest optical tolerances specified by your engineering team. Using air-bearing alignment stations, point source microscopes, and precision tooling, our expert production staff routinely aligns optics in our customer's systems to a few microns or less. This ensures that even your most challenging performance requirements can be met in our as-built hardware.

## Investing for the Next Generation

The combination of these integrated resources allows OSI to engineer and efficiently produce high precision optical assemblies. OSI continues to invest in technologies to ensure that we meet our customer's next generation requirements.



## Contact Us

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