



Life Sciences

Optikos makes amazing things possible in the life sciences.

Design Experience

- Fluorescence-based diagnostic and cell imaging systems
- Gene sequencing instruments
- qPCR systems
- Endoscopes of all types, including a disposable colonoscope
- Optical coherence tomography (OCT) imaging systems
- Radiation dose measurement using optical molecular sensing
- Contact and intraocular lens measurement
- Minimally invasive surgery (MIS)
- Spectrometers Visible through Infrared

We partner with clients in life sciences hubs around the world who are developing medical devices and diagnostic tools enabled by optics.

When you need a flexible and scalable resource to help move your product from concept through manufacturing, our engineering expertise in design, assembly, and optical testing makes us an ideal partner.

Our teams have worked at the forefront of life sciences technologies, developing complicated designs that incorporate optics and photonics, optomechanics, software, electronics, and automation; and meet rigorous regulatory requirements.

You receive full transparency of the development process along the way, and at the end of your journey, no matter how intensively we collaborate or how deeply we innovate, you own the design.

And when you transition to manufacturing, Optikos® is well-positioned to help. We'll develop assembly instructions, test procedures, PFMEA files and a verification and validation (V&V) plan to take your design through pilot builds and into volume production.

Case Study

Carterra® LSA Platform Accelerates Lifesaving Antibody Drug Development



Carterra's founder and leaders of engineering and research contacted Optikos with a revolutionary idea that would dramatically improve the efficiency of antibody screening for pharmaceutical companies. Their vision was a fully integrated screening and characterization platform that would combine their patented flow printing microfluidics with real-time high-throughput surface plasmon resonance (HT-SPR) optical detection. This system, coupled with one-of-a-kind software capabilities, if successful, would deliver many times the data in a fraction of the time, with minuscule sample requirements and lower consumable costs than existing systems.

[Access Full Case Study](#)



Life Sciences Products and Services

Engineering Services

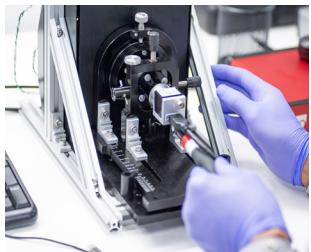


Where other optical consulting firms might offer only lens design services, Optikos has built its reputation on providing our clients with access to broadly skilled optical problem solvers who provide solutions and continuity of support throughout the product development cycle.

Your design can range from a single a la carte technical solution to complete product development through manufacturing.

And at project completion, you own the design.

Manufacturing Services



At Optikos, manufacturing of custom lens cells, optomechanical systems, and turn key metrology equipment is a core competency. Our experienced team of mechanical, optical, and electrical assemblers and technicians are here to ramp your design from paper or prototype into production volumes. All of our production lines are located in our ISO 9001 and ISO 13485 certified facility where we integrate our metrology expertise into our production lines. By leveraging both our robust quality system and internal metrology expertise, our customers can be confident they are receiving units made to industry standards and customer requirements.

The Optikos Experience™

Optikos engineers and technical staff team up according to the demands of the job—bringing together 40+ years of expertise not only in optics, but also in physics, mechanics, optomechanics, electronics, software, manufacturing, and automation.

What sets us apart is not just our bench strength. It's how we solve.

We call it Optical Ingenuity™. The thread. The ability to apply our insight and experience across all areas of optics to all that we do.

And we do it all.

Learn More



at optikos.com

v1.0



The Optical Engineering Experts®

Anywhere Light Goes®

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