

Speed matters in MedTech development. The Resonetics[®] Lightspeed Lab[®] helps accelerate product innovation through quick-turn prototyping, collaborative engineering, and advanced manufacturing expertise designed specifically for medical devices.

Lightspeed Lab[®] is a network of specialized teams and advanced technologies integrated into our production facilities, dedicated to supporting MedTech customers with rapid prototyping of components and complex sub-assemblies from concept to commercialization. Our experts develop scalable manufacturing processes that help bring our customers products to market faster with shortened development cycles and better long-term outcomes.

The Lightspeed Lab[®] difference

Purpose-Built for MedTech Innovation

- 150+ engineers and technicians focused on medical device prototyping and process development
- State-of-the-art advanced manufacturing and inspection equipment exclusively reserved for quick turn prototyping
- Our material department stocks over 1,500 SKUs and has access to more than 4,500 SKUs of quick-turn materials ensuring materials are readily available
- Internal network of experts who will collaborate to determine the best manufacturing processes for your device
- Direct engineer-to-engineer communication for deep collaboration and problem-solving
- Disciplined phase gate process for transferring projects to production
- Lightspeed Lab Day offering



RESONETICS[®]

LIGHTSPEED
LAB[®]

Industry-leading solutions for rapid prototyping and process development

Lightspeed Lab® day

Rapid iteration. Real-time collaboration.

Accelerate your development timeline with a Lightspeed Lab® Day - an immersive, on-site experience built around collaboration, rapid prototyping, and immediate results.

During a Lightspeed Lab® Day, customers work directly with Resonetics engineers and technicians using specialized prototyping and testing equipment to evaluate designs, solve challenges, and iterate in real time.

Benefits of a Lightspeed Lab® day

- Collaborate in person with dedicated Lightspeed engineers and technicians who will be responsible for making your parts
- Leverage our on-site prototyping and testing capabilities, or bring your own equipment, to assess component performance and manufacturability
- Eliminate weeks or months of the design cycle
- Complete 5-15 iteration in a single day

By compressing development cycles into a hands-on collaborative experience, Lightspeed Lab® Days help customers move from concept refinement to actionable results faster than traditional development approaches.

Accelerate your path to market

Whether developing minimally invasive devices, advanced implants, sensors, or complex assemblies, Lightspeed Lab® provides the expertise, technology, and rapid execution needed to support every stage of product development.

From early-stage concepts to scalable manufacturing processes, Resonetics helps MedTech innovators move faster with confidence.

Rapid prototyping capabilities

Lightspeed Lab® offers a broad range of advanced manufacturing capabilities to support complex MedTech applications and accelerate product development.

Core Capabilities:

- Nitinol processing
- Laser processing
- Centerless grinding
- Photochemical machining
- CNC machining
- Micro waterjet cutting
- Sensor development

Our teams collaborate across technologies to rapidly prototype components and assemblies while identifying scalable manufacturing solutions for future production needs.



Learn More
Resonetics.com

