



# Biotechnology Product Commercialization, Micro- and Milli-fluidics Oriented Development, Medical Consumable, and Instrument Production

Re:Build Fikst’s team of mechanical, software, and electrical engineers has vast experience in biomedical and biotech instrument and consumable design and specializes in quick, practical product development that accelerates product commercialization. Our expertise in system development, mechanical engineering, embedded systems, and design for manufacturing enables us to provide full-scale engineering development, rapid ideation and prototyping, and problem-solving to address your technical challenges. We also support your company’s short-term needs, an especially valuable service when you are facing particularly complicated problems. We are also experts in industrial automation and can help you establish efficient, cost-effective, productive warehouse management 2.0 operations.

INDUSTRIES SERVED:

- Cleantech
- Health
- Mobility

LOCATIONS:

187 Ballardvale Street  
Suite B210  
Wilmington, MA 01887

CONTACT:

info@rebuildmanufacturing.com  
781.491.0845

Core Competencies:

- Researching and Understanding Complex Technical Challenges
- Building SolidWorks CAD Models – Master Models, Complex Surfacing, Large Assemblies, PDM
- Performing Multiphysics Simulation – Fluidic, Structural, Thermal, Electrical
- Rapid On-Site Prototyping for Technology Development
- Sophisticated Prototype Testing to De-risk the Design
- Design for Manufacturing – Injection Molding, Sheet Metal, Extrusion, Casting, and More
- Design for Assembly and Serviceability
- Transitioning to Manufacturing – Drawings, BOMs, Work Instructions
- Assembling Pilot Builds of Consumables and Instruments
- Seamless handoff to internal contract manufacturing (low- to high-volume production)

Key Differentiators:

Re:Build Fikst combines engineering fundamentals, analysis, sophisticated instrumentation and rapid prototyping to solve complicated technical challenges. We have extensive in-house, rapid prototyping capabilities, including CNC machining, soldering, 3D printing, laser cutting, and silicone casting. We routinely prototype special production assembly methods, including ultrasonic welding, diffusion bonding, heat sealing, UV gluing, and laser welding, to derisk manufacturability early in the design process. We also offer analytical expertise in fluid dynamics, including particle tracing that employs COMSOL multiphysics simulation. We design for high-volume manufacturing utilizing prototyping and analysis, and then facilitate pilot runs of consumable and device prototypes in-house, easing the transition to full production.

Highlighted Customers:

- Aquyre Biosciences
- Evizia
- FlaskWorks
- Flexomics
- The Jackson Laboratory
- Lyndra Therapeutics
- Nanopath
- NextGen Jane
- Sage Science
- Sight Diagnostics
- Vapotherm

LEARN MORE:

