

IN-HOUSE CAPABILITIES:

- Instrumentation
- Wearables
- Smart devices, connectivity equipment, IoT
- 2nd generation products
- Point-of-care diagnostics
- Sample prep instruments
- Cell therapy manufacturing tools
- Liquid handling and pump systems
- Embedded device firmware
- Software development (Windows and Linux software)
- Sensor data processing and motion control
- Algorithm development, including custom sensor
- Fusion algorithms
- Prototyping and testing
- Mechanical design for mid- to high-volume products (plastic, sheet metal, castings, machined parts, mechanisms, exotic manufacturing processes)
- Servo and motion systems (control algorithms, firmware, electronics, motor and actuator selection, and all mechanical components)
- Thermal-control systems
- Low-power wireless communications
- Printed circuit assembly (PCA) and flex circuit design
- Custom characterization, testing, assembly tools



SIMPLIFYING THE COMPLEX®
Designing the Next Generation of Biotech



We believe that the best solution is the simplest one to accomplish the goal reliably.

Simplexity designs products from concept through manufacturing, including 2nd generation products. We are known as experts in the field of mechatronics, with an outstanding reputation in the biotech industry. Simplexity, founded in 2005 with predecessor companies since 1992, now has 4 U.S. locations.

We are not a manufacturer, and remain agnostic. We will design what is best for your device, not just to our in-house capabilities, and will partner with your manufacturer of choice. Our expertise is optimizing product reliability, performance, cost and reducing part count with speed to market. We have a long history of collaboration and outsourcing with many companies:



OUTSOURCE TO OUR PARTNERS:

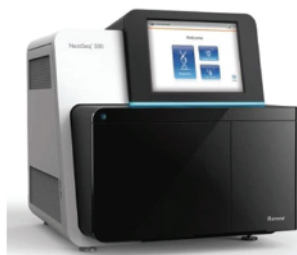
Industrial Design, Contract Manufacturing, Microfluidics, Cassette Design, Optical Design, Clinical Trials, Regulatory, Assay Development, Cloud Connectivity Software, Web Pages, Apps, Databases, Production Line Automation



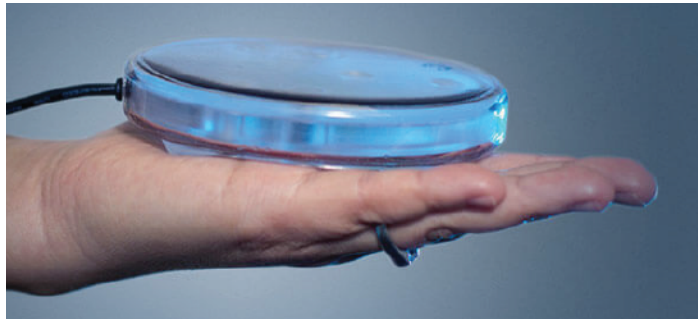
TRANSDERMAL DELIVERY DEVICE



CATHETER DESIGN



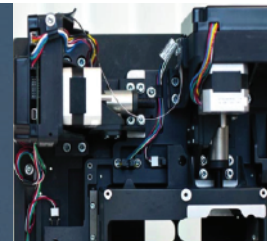
BIOTECH INSTRUMENT



CPR TRAINING



WEARABLES



2-AXIS MOTION SYSTEM



EMBEDDED MOTION PCA

OUR TEAM AT SIMPLEXITY INCLUDES:

- 75+ engineers and technicians
- Average of 20 years' experience
- 50% with master's degrees
- Inventors on over 150 patents
- Scientific consultant with over 20 years' experience, working with companies such as BD

We design for medical device standards, including:

**ISO 13485, 14971
IEC 62304, 60601, 61010**



TABLETOP 3D PRINTER



FLUIDIC DROP DETECTOR



**simplexitypd.com
info@simplexitypd.com**