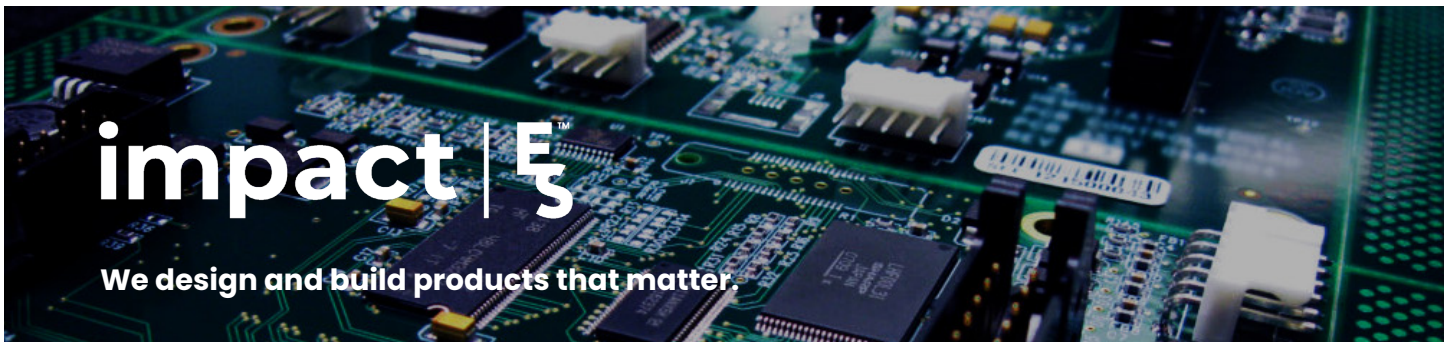


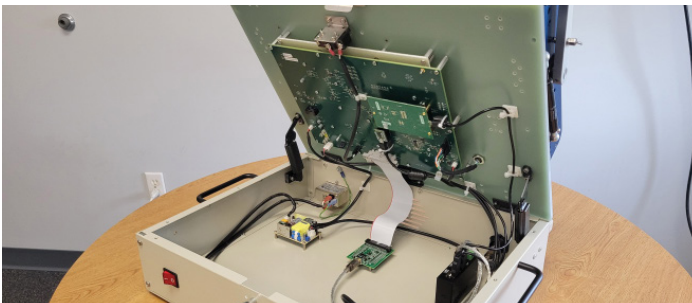


Test System Development

At Impact ES, testing isn't just a checkpoint—it's a cornerstone of quality. We help customers validate performance, identify issues earlier in the build cycle, and ship products with confidence—especially when reliability, traceability, and real-world operation matter.

End-to-End Testing, Built for Confidence

Backed by experienced engineering teams and in-house manufacturing, we build test strategies that scale from prototype validation to production support. Customers in aerospace, medical, defense, and industrial markets count on Impact ES to safeguard product integrity and confirm systems meet performance expectations in real operating conditions.



Testing Capabilities That Reduce Risk

Reliability & Environmental Stress Validation

- Verifies workmanship and durability before (and alongside) powered testing.
- May include X-ray, AOI, solder paste inspection, vibration, thermal testing, and ESS (as applicable).
- Helps uncover process-related defects and reduces downstream rework.

Flying Probe ICT—Fast, Fixtureless Coverage

- Performs non-powered structural checks (opens/shorts, component values, polarity, and unsoldered pins).

- Ideal for prototypes, new revisions, and low-to-medium volumes where fixtureless testing is preferred.
- Provides flexible validation without a dedicated bed-of-nails fixture.

Programming Support & Simple Programmers

- A cost-effective option for low-complexity PCBA's and development builds.
- Supports firmware loading, debug access, and basic verification steps.
- Commonly used for development, bring-up, and end-of-line programming needs.

Custom Bed-of-Nails Fixtures & Production Test Stations

- Uses spring-probe interfaces for repeatable electrical contact and faster operator workflows.
- Enables measurement, programming, basic communications, and results logging based on product requirements.
- Supports software-driven automation for traceability and consistent execution in ongoing manufacturing.

System-Level Functional & Integration Testing

- Validates multiple boards working together as a complete system.
- Supports powered-on functional checks, calibration (when required), and integration-level verification.
- Complements ICT-style testing by confirming real behavior under operating conditions.



About Us

We are a multi-site contract manufacturer and engineering partner. We combine design engineering expertise with full manufacturing capabilities, enabling customers to streamline development and production under one roof.

Industries



Aerospace



Medical & Life Science



Autonomous & Robotics



Space



Military & Defense



Commercial & Industrial

Why Choose Impact for Testing

Integrated Teams

Design and test engineers work seamlessly across sites to ensure efficiency and accuracy.

Proven Cost Savings

Smarter testing strategies reduce scrap, rework, and delays.

Scalable Solutions

From early prototype validation through high-volume production.

Multi-Site Strength

Testing integrated with engineering, PCBA assembly, cable/fiber optics, and box-build capabilities.

Certifications



Contact Us

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541-441-1419

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Locations

- Clearwater, Florida
- Cranston, Rhode Island
- Grants Pass, Oregon
- Vancouver, Washington
- Ventura, California

