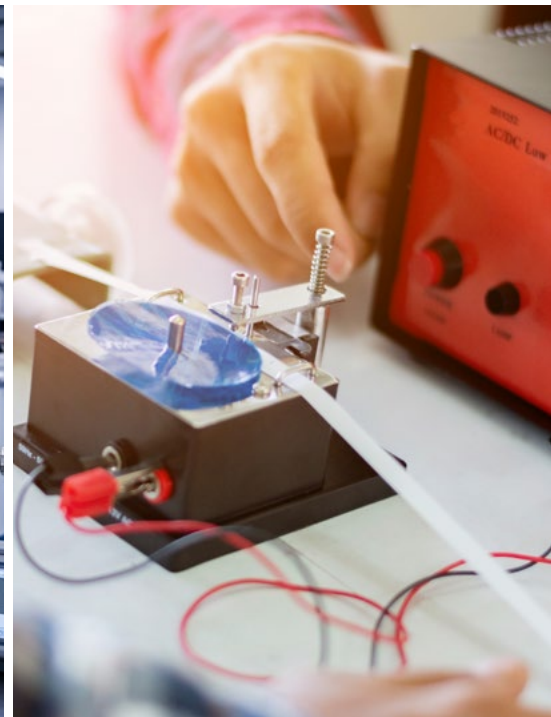




ACCELERATING PRODUCT QUALIFICATION FOR AEROSPACE, DEFENSE, SPACE, AND ADVANCED INDUSTRIAL SYSTEMS

Today's aerospace, defense, and advanced manufacturing programs face increasing pressure to move faster, validate performance earlier, and reduce risk across the product lifecycle. Emerging technologies, evolving MIL-STD requirements, accelerated development timelines, and growing reliability expectations are creating new demands for robust environmental and product qualification testing.

Element Bothell helps manufacturers meet these challenges with comprehensive product qualification testing services designed to validate performance in real-world operating conditions. From aerospace and defense platforms to space systems, medical devices, transportation technologies, and advanced industrial products, we help customers qualify products with confidence.

With access to Element's global network of laboratories and more than 180 years of collective materials and testing expertise, customers gain a trusted partner focused on reducing risk, supporting compliance, and accelerating time to market.

MARKET CHALLENGES WE HELP SOLVE

INCREASING RELIABILITY REQUIREMENTS

Mission-critical systems are expected to perform flawlessly in extreme environments including vibration, shock, altitude, temperature fluctuations, humidity, corrosive conditions, and explosive atmospheres.

Element Bothell delivers rigorous environmental simulation and qualification testing that helps identify vulnerabilities early, improve product durability, and reduce field failures.

FASTER DEVELOPMENT AND QUALIFICATION CYCLES

Manufacturers are under pressure to compress development schedules while maintaining quality, safety, and compliance.

Our experienced testing teams, advanced capabilities, and integrated approach help streamline qualification programs and support faster decision-making.

GROWTH IN AEROSPACE, DEFENSE, AND SPACE PROGRAMS

Modern aerospace and defense systems are becoming more complex, with increased demand for ruggedized electronics, lightweight structures, autonomous technologies, and high-performance components.

Element Bothell provides specialized testing services aligned with MIL-STD, RTCA DO-160, NASA GEVS, and other industry standards to support evolving program requirements.

INCREASED FOCUS ON PRODUCT DURABILITY AND LIFECYCLE PERFORMANCE

Customers need confidence that products will withstand harsh operating environments throughout their lifecycle.

Our testing capabilities help validate reliability, improve design confidence, and support long-term operational readiness.

WHY PARTNER WITH ELEMENT BOTHELL

TRUSTED PRODUCT QUALIFICATION EXPERTISE

Element Bothell specializes in environmental simulation, dynamics testing, and product qualification testing for highly regulated and performance-driven industries.

Our experts support customers through every stage of qualification, from early design validation through final compliance testing.

COMPREHENSIVE TESTING CAPABILITIES

Element Bothell offers a broad range of environmental and mechanical testing services, including:

- MIL-STD-810 testing
- RTCA DO-160 testing
- Dynamics testing
- HALT and HASS testing
- Vibration testing up to 20K force lbs.
- Mechanical shock and pyroshock testing
- Climatic and environmental simulation
- Altitude testing and simulation
- Humidity testing
- Thermal shock testing
- Corrosion and salt spray testing
- Sand and dust testing
- Ingress protection and waterproofness testing
- Acceleration testing
- Fatigue and structural testing
- Electrical and electronics testing
- Crash safety testing
- Fluid component testing
- Instrumentation and strain gauging

INDUSTRY-RECOGNIZED STANDARDS AND ACCREDITATIONS

Element Bothell supports testing to a wide range of globally recognized standards and specifications, including:

- MIL-STD-810
- RTCA DO-160
- NASA GEVS
- ASTM standards
- IEC standards
- MIL-STD-202
- MIL-STD-167
- MIL-S-901

Our laboratory operates with ISO 17025 accreditation and A2LA accreditation, helping customers meet demanding regulatory and customer requirements.

INDUSTRIES WE SUPPORT

Element Bothell supports manufacturers across a wide range of industries, including:

- Aerospace
- Defense and military
- Aviation
- Space
- Transportation
- Automotive and commercial vehicles
- Medical devices
- Durable goods manufacturing
- High-tech industrial products

CUSTOMER VALUE

REDUCE PROGRAM RISK

Identify performance issues before deployment and improve product reliability under real-world environmental conditions.

ACCELERATE TIME TO MARKET

Work with a single partner that provides integrated testing expertise and streamlined qualification support.

IMPROVE DESIGN CONFIDENCE

Gain actionable data that helps engineering teams optimize designs and validate product durability.

SIMPLIFY COMPLIANCE

Navigate complex qualification requirements with experienced testing professionals and globally recognized accreditations.

ACCESS GLOBAL EXPERTISE

Leverage the strength of Element's worldwide network of laboratories, technical specialists, and testing resources.



PARTNER WITH ELEMENT BOTHELL

Element Bothell delivers the environmental simulation, dynamics testing, and product qualification expertise manufacturers need to validate performance, reduce risk, and accelerate innovation.

Whether qualifying aerospace systems, defense technologies, space hardware, or advanced industrial products, our team helps customers move from development to deployment with confidence.

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Learn more at [Element.com](https://www.element.com)

