



**Your
Product
Reliability
Partner**

ARL Austin
Reliability
Labs

A TyRex Technology Family Company



ABOUT US

Recognized as one of the top product reliability labs in the country with a unique balance of testing and consulting services, **Austin Reliability Labs (ARL)** is a place where we recognize the hard work and passion that goes into the design and development of your product. We have that same passion for excellence, and want to find any problems your product may have in an effort to perfect it. We also understand a reputation is something that builds over time, so we focus on establishing long-term partnerships with each of our clients. With that in mind, we not only specialize in writing and developing all of the tests we perform, but, unlike other labs, we provide pass / fail reports on all of our tests and decipher the results for you in order to maximize your product's success. We believe quality is infused by finding every flaw in a product and methodically removing each one until the product shines. As a result, only a thorough, comprehensive reliability test program, as provided by ARL, will allow a product to emerge that will earn or maintain an unsullied and clean brand reputation.

WHY CHOOSE ARL?

Backed by an expert staff and test methods accredited to the ISO/IEC 17025 standards, ARL provides the reliability tests your product needs and develops test strategies at the right price. Additionally, our lab is home to a wide array of equipment to accommodate a multitude of testing requirements for your product, including 22 test chambers (covering HALT / HASS, thermal, humidity, altitude, dust, salt spray, and solar testing), two electrodynamic shakers, a hydraulic shaker, two shock towers, a drop tester, battery life cycle testers and a tensile tower system. Our team can also help evaluate your qualification and reliability test plan to make sure the tests you're running are the best for your unique product and its uses. **From HALT and HASS to Battery Life, Qualification, Environmental, Mechanical, Additive Manufacturing and Custom testing, ARL can deliver whatever reliability test services you require.** Our goal, whether your test standards are global, client-required or self-defined, is to be your trusted partner in ensuring that your product will perform reliably throughout its targeted life.



ACCREDITATIONS

Our lab has over two decades of experience in all aspects of product reliability, including development, testing and analysis. Our recognized expertise includes **A2LA**, **Qualmark** and **ASQ CRE** certifications as well as credentials from **IEEE** and **military standards committees**. We also provide an accredited third-party verification of test results and can perform supplier qualification audits. Our clients include a wide range of businesses from startups creating their first product to Fortune 500 companies seeking to save on staffing budgets and warranty costs. We have performed tests on down-hole oil tools, medical equipment, batteries, computers and every imaginable product in between.





HALT / HASS

TESTING SERVICES

ARL's **Testing Services** are performed by knowledgeable technical staff who will provide you with quick, reliable and cost-effective consultation, execution and reporting. Our facilities allow us to perform a wide range of standard testing that meets established benchmarks in a variety of industries. We also recognize that the test doesn't end when the data is gathered. A thorough and professional test report will quickly follow the test activity in order to document the work performed. This report will chart the data collected, include full test details, provide an in-depth analysis to simplify data interpretation, and list any defects that were found.



Mechanical Tests

We listen to the needs of our clients and draw upon our test experience to design solutions addressing client concerns within budget constraints. We not only devise test solutions that do everything from simulating the lifetime of a product to targeting specific problem areas, but we will work with your unique product to adopt standard tests to the needs and concerns you bring us. Additionally, if you are experiencing a field failure, but aren't sure how to address it in a controlled environment, we can advise you on the proper methods to expose the problem. After the problem is fixed, we will perform another test to verify it is corrected. And when there isn't an industry standard, we will apply accepted reliability principles to properly exercise a product and alleviate management concerns about warranty costs. High product reliability will bring down initial field incident returns (IFIR) and reduce the time your engineers spend fixing product flaws. The following are the tests that we perform in our accredited lab:

HALT / HASS

BATTERY LIFE TESTS

QUALIFICATION TESTS

ENVIRONMENTAL TESTS

MECHANICAL TESTS

ADDITIVE MFG. TESTS

CUSTOM TESTS

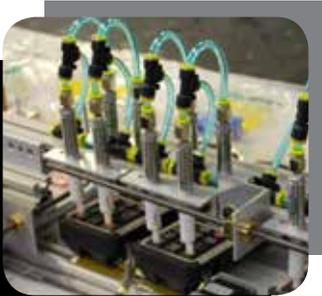


Additive Mfg. Tests

CONSULTING SERVICES

There is more to a lab than just hardware. A lab is governed by human expertise and experience. Through our **Consulting Services**, we are committed to working with you to create solid test strategies for your product while freeing up your valuable engineering staff to focus on their core competencies and new product development rather than bogging them down with reliability planning. Reliability is our business - we not only understand test planning and procedure development, but we know what data needs to be gathered and how to document it. We also have the tools and expertise to transform the data into relevant and accurate reliability predictions and analyses. When you partner with us you can take advantage of the following consultancy services:

- **Life Predictions & Design Analysis**
- **Test Planning**
- **Test Procedure & Development**
- **Life & Test Data Analysis**
- **Failure Analysis**
- **Reliability Training**



Custom Tests

ON-SITE STAFFING

Today's tough economy makes it hard to keep experts on hand for every service that may conceivably be needed. ARL's **On-Site Staffing Services** are here to get you through those periods where you need help, but don't want the expense of a full-time employee. Our technical staff is knowledgeable in a wide variety of test methodologies performed with equipment from various vendors. Our professional team can gather, sort, analyze and obtain meaningful results from any sort of data you can provide. We can also work at our site or at your facility - whatever your workflow requires. Additionally, if all you require is training on your newly-purchased test equipment, we are happy to present customized training programs to help your personnel become familiar with their new duties. Consider ARL for your year-round, seasonal or occasional staffing needs.





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OUR TYREX FAMILY



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TyRex Family
Associated Entities

