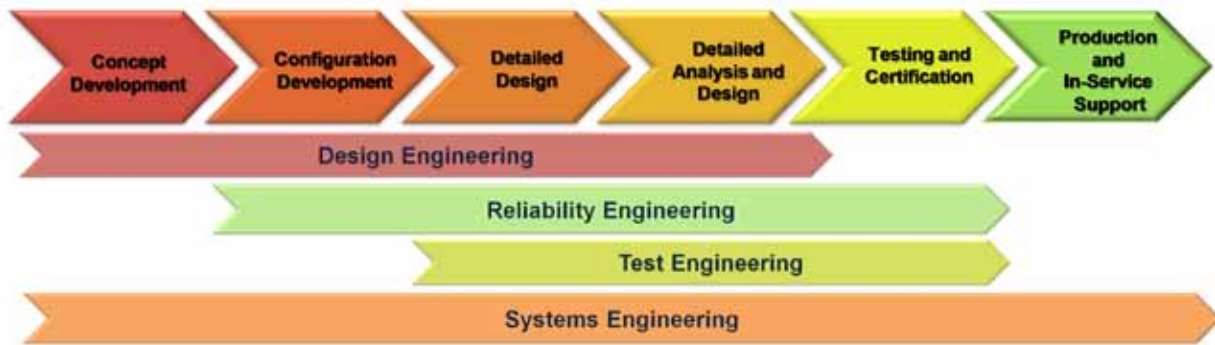


# NTS Facility Spotlight: Albuquerque, New Mexico

## Specialists in Engineering Services and Life Cycle Solutions



### About NTS Engineering Services

NTS Engineering Services (NTS-ES) offers a broad range of engineering services to assist customers in product development and testing. NTS-ES provides access to hundreds of knowledgeable engineering resources with expertise in Design, Reliability, Test and Systems Engineering solutions.

### Design Engineering

NTS-ES assists customers with development of product and system designs, requirements definition, optimization strategies, and analysis. Our expert engineers design and develop complex electro-mechanical systems which operate in a wide variety of environments. Mechanical, electrical, software, and system integration engineers provide high-value solutions to a broad array of engineering challenges. Optimized fit, form and function; NTS-ES delivers durability and reliability in every system.

### Test Engineering

NTS-ES provides a comprehensive multidisciplinary and systems based approach to Test Engineering. Our engineers and technicians are recognized experts in the performance of a wide array of environmental testing simulations. Regardless of the environment you need to simulate, NTS has the solution.

In addition, NTS-ES designs, fabricates, and integrates custom turnkey automated test systems to empower customers in their own test programs. We design with the end-user in mind, and our significant experience in Test Engineering over many years, provides a valuable experiential knowledge base to improve upon your test product design and your test approach and methodology.

### Reliability Engineering

NTS-ES designs, develops and integrates products and systems to meet the specified reliability requirements of the customer. NTS also offers design for reliability with “One Life” accelerated testing, HALT testing, fault analysis, fault identification and corrective action of customer parts. NTS has capabilities to determine the Mean Time Between Failure (MTBF) or Mean Time To Failure (MTTF). NTS-ES also offers accelerated aging or HALT testing.

NTS-ES offers fault analysis and identification using Fault Tree methodology and root cause analysis through testing and proof of concept. Corrective action recommendations can be made for reliability improvement and additional testing can be completed to ensure reliability issues have been mitigated. Placing reliability first, NTS-ES works to deliver the best product and success for our customer.

### Systems Engineering

NTS’ Systems Engineering Group accurately identifies, traces, and verifies project requirements across all NTS programs. These requirements are used to drive execution excellence and to provide the framework for successful technical system integration activities.

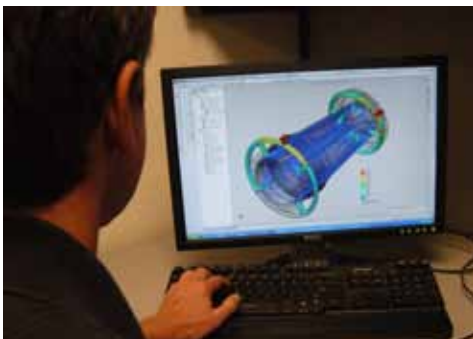
Program success in meeting these requirements is ultimately validated through development and execution of an appropriate project test plan. The Systems Engineering Group provides technical oversight for all NTS-ES programs, identifies and drives the necessary program design reviews, assesses component- and system-level reliability, and develops and implements a program risk-management plan.



**Welding an industrial processing machine**



**Flight testing of particulate sampling pod**



**Fluid Flow Analysis**

## Highlights and Capabilities

### Services

- ▶ Requirements Analysis and Definition
- ▶ Program Management
- ▶ Design
- ▶ Structural, Fluid, Thermal, and Dynamic Analysis
- ▶ Reliability Analysis
- ▶ Electrical and Mechanical Detailed Drafting
- ▶ Hydraulic System Design
- ▶ Prototyping and Development
- ▶ Fabrication and Manufacturing
- ▶ Integration
- ▶ Test Methodology Design
- ▶ Testing, Validation and Verification
- ▶ Installation
- ▶ Maintenance, Support and Training

### Expertise

- ▶ Remote Sensor Systems
- ▶ Radiation Detection Equipment
- ▶ Sampling and Analysis Systems
- ▶ Automated Test Equipment
- ▶ Heavy Industrial Equipment
- ▶ Precision Machining
- ▶ Motion Control and Robotics
- ▶ Vision Inspection Systems
- ▶ Industrial Controls
- ▶ Data Acquisition, Analysis, and Reporting
- ▶ Data Logging, Monitoring, Recording and Playback Systems

### About NTS

NTS is a world leader in assisting organizations to access domestic and international markets. We are a single source for a full range of integrated engineering solutions, product testing, standards compliance, project management staffing solutions, engineering and managed services. Globally accredited by leading regulatory agencies, NTS can provide cost-effective programs to meet your requirements at one of our many U.S. or international facilities, or we can provide on-site solutions. NTS is the nation's largest independent standards compliance and product testing company serving companies within the aerospace, defense, automotive, telecommunications, electronics, power, medical device, computer, software and financial markets.



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