



## Aerospace Services

Northrop Grumman Aerospace Services offers comprehensive engineering, testing and analysis services. With a broad array of facilities and an experienced technical staff, we solve challenging problems for our customers. We deliver credible test results that meet stringent U.S. military, NASA and commercial standards. We provide tailored solutions that meet customers' technical, cost and schedule requirements.

### Antenna Testing

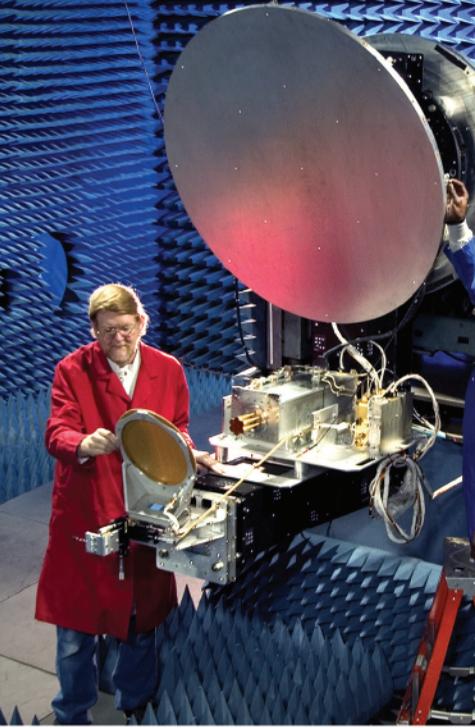
Securely measures performance of broadband, feed, multi-beam and phased array antennas from 100 MHz to 75 GHz. Test facilities can accommodate fully deployed antenna aperture of up to 30' x 30'. Facilities include Anechoic Chambers, a Compact Range and Planar and Spherical near-field ranges.

### Chemistry Services

Performs investigative testing and analytical services to support product development and failure analysis. Equipped with state-of-the-art laboratories, technical experts can perform a wide range of chemical and physical analyses, basic research and compatibility studies.

### Electromagnetic Environmental Effects Services

Offers engineering design and testing services for electromagnetic interference and compatibility, and TEMPEST capabilities certified under the National Security Agency (NSA) TEMPEST Endorsement Program. Unique capabilities include large welded tri-cell chambers, and shielding effectiveness testing (RF shielding and TEMPEST zoning) to military and commercial standards.



### Environmental & Specialty Test

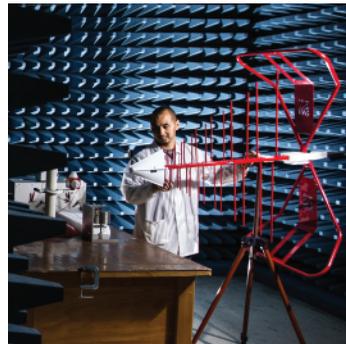
Services include dynamic, structural, and thermal and testing, simulating most space environments. Facilities include thermal vacuum and thermal cycle chambers, acoustic and dynamic vibration chambers, and instrumentation services including data acquisition and load control systems.

### Radiation Testing

Performs characterization, qualification, and radiation lot acceptance testing (RLAT) of electrical semiconductor piece-parts. We measure radiation-induced electrical Degredation in both natural space and nuclear Weapon environments. Capabilities include total ionizing dose, neutron displacement damage, prompt dose and single event effects testing.

### Metrology Services

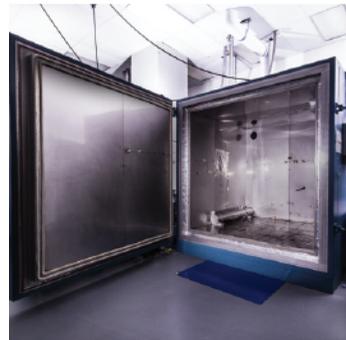
ISO 17025 accredited provider of extensive calibration and measurement services ranging from DC, light, phase noise, excess noise ratio, microwave, dimensional, physical and electro-optical properties. We also help customers develop calibration and measurement methods and systems. In addition to metrology services, we offer a comprehensive solution for test asset management known as TAOS™. Our solution optimizes test asset utilization rates, and includes turn-key implementation, software, business processes, and change management expertise.



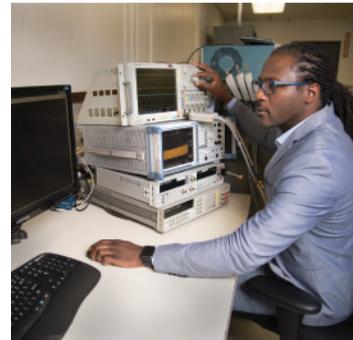
Antenna Testing



Radiation Testing



Environmental Testing



Metrology Services

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