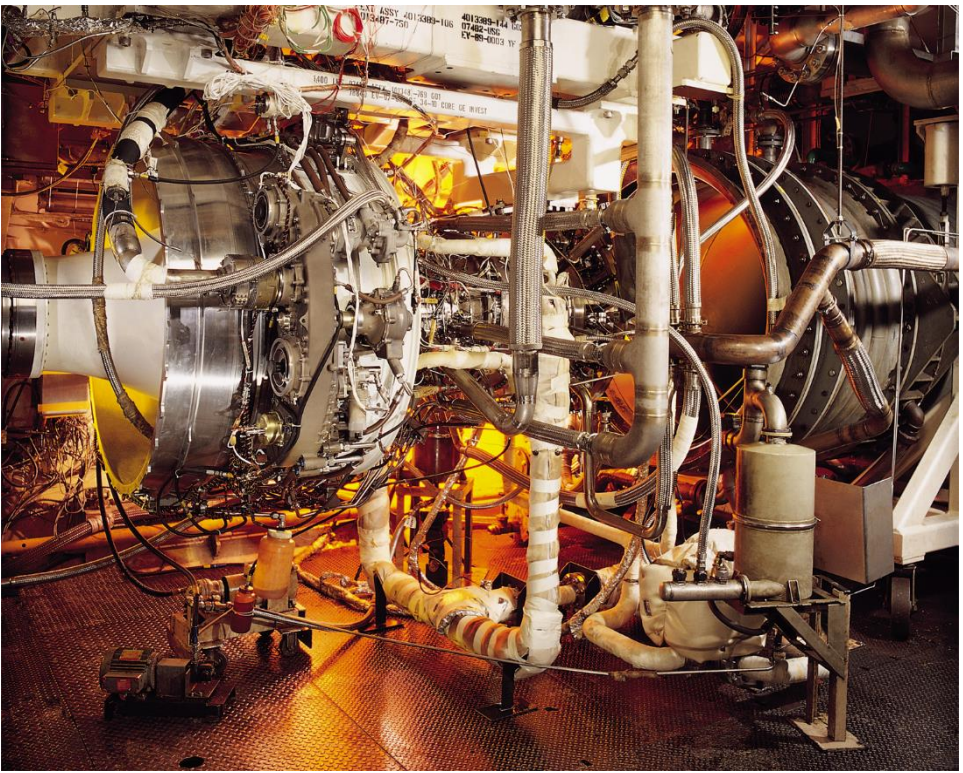
GE Aviation

GE Aviation Altitude Test Services: Flexibility across the Flight Map.

GE Aviation has extensive test cells capable of altitude testing, supported by unique facilities and a diverse and experienced staff. Our Altitude Test Facility (ATF) can simulate altitudes up to 30,000 ft, with inlet air flow up to 570 pps at up to 650 deg-F. Fuel heating and cooling is available, as well as cooled inlet air down to -40 deg-F. The two test cells that make up ATF can be operated independently. Since the 1960s, most every core engine built at GE Aviation has been tested in the ATF.

Cell A1 is a very flexible altitude test facility, capable of altitude simulation up to 70,000 ft, and able to test turbofan, turbojet, and turboshaft configurations. Two side-by-side test chambers are served by a dedicated control room. A central airflow facility provides vacuum exhaust capability, and moisture can be precisely controlled for low temperature applications to below -40 deg-F. The ADVENT and AETD core engines were tested here, setting aviation records for compressor and turbine inlet temperatures.



Test Capabilities

Altitude Engine Performance

High Mach Simulated Performance

Augmentor Performance

Altitude Relight with Cold Fuel/Inlet

Cold Soak/Cold Start

Facilities

- Core Engine
- Full Engine
- Augmentor
- Turbofan / Turbojet / Turboshaft

GE has commercially-available altitude test facilities that are unmatched. Our flexible capabilities and depth of experience can provide a wide range of testing for aviation and other industrial testing.

Facilities

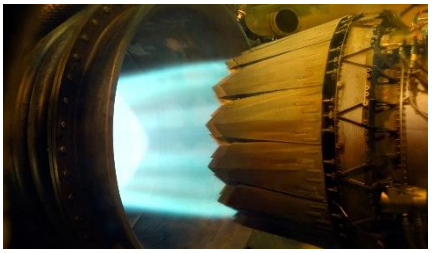
Cells C43/44: Altitude Test Facility	
Maximum Inlet Air Pressure	38 psia
Maximum/Minimum Inlet Air Temperature	650/-40 deg-F
Maximum Inlet Airflow	525 pps
Maximum Fuel Flow (liquid/gas)	250 gpm
Minimum Exhaust Pressure	5 psia

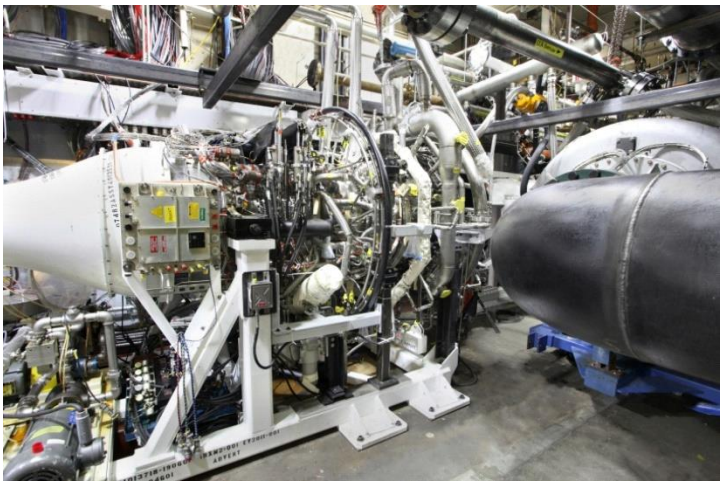
Cell A1: Altitude Test Cell	
Maximum Inlet Air Pressure	120 psia
Maximum/Minimum Inlet Air Temperature	450/-65 deg-F
Maximum Inlet Airflow (total)	>200 pps
Maximum Fuel flow (liquid)	75 gpm
Minimum Exhaust Pressure	.65 psia

Support Capabilities

GE has extensive capabilities for a turnkey test solution to meet your needs:

- Rig assembly & teardown in segregated facilities
- Instrumentation design, application, leadout, and checkout
- Design and build of test rigs & support hardware
- Remote near-real-time test monitoring
- Full customer data segregation





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