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How We Meet Our Customers' Needs

United States Army

Redstone Technical Test Center (RTTC)





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How We Work

Three Primary Business Areas

Air & Missile Defense Focused Capabilities



PAC-3 icing test



Avenger road test



NMD booster
vehicle modal
survey test

The Redstone Technical Test Center (RTTC) provides services for the test and evaluation of Air & Missile Defense elements, subsystems, and components. Test capabilities include safety, performance, and reliability of these elements, subsystems, and components. The specific focus of our capabilities to support Air & Missile Defense includes the following:

Three Primary Business Areas

Organization Chart

Work Values

How We Work for Our Customers

- Safety, performance, and reliability of Air & Missile Defense elements, subsystems, and components
- Climatic tests to include low/high temperature, temperature shock, humidity, salt fog, rain, Ice, dust, sand, and solar radiation
- Dynamic tests to include vibration, shock, acceleration, rail/pendulum impact, road/mobility testing, motion replication, modal analysis, finite element analysis, and instrumentation of equipment for development of vibration/shock specification
- Electromagnetic Environmental Effects (E3) to include Electromagnetic Interference (EMI), Electromagnetic Compatibility (EMC),

Electromagnetic Vulnerability (EMV), Hazards of Electromagnetic Radiation to Ordnance (HERO), Electrostatic Discharge (ESD), and Lightning Effects (LE)

- Propulsion system static testing to include solid or liquid rocket motors up to 10 million pounds horizontal thrust and up to 500,000 pounds vertical thrust, Six DOF testing, liquid fueled Thruster/DACS Testing at temperature and altitude extremes, and plume attenuation and signature testing
- Instrumented Air Defense System/Subsystem Testing to include detection/recognition tests, threat simulators, etc. Helicopter masking areas and aircraft support are also provided. An airborne systems laboratory/hangar is located adjacent to 7,300-foot runway.
- Component testing to include functional performance and reliability, mechanical integrity, electrical performance, warhead/S&A/Fuze testing, disassembly of missile systems, nondestructive testing and physical measurement, and sensor/seeker testing (IR, RF, and MMW)
- Applications of Modeling & Simulation tools integrated with testing Air & Missile Defense elements, subsystems, and components
- Test design, management, and engineering expertise



Avenger EMI test



NMD GBI 6 DOF
static firing test



Avenger tracker
test at Air
Defense Test Site

To contact the RTTC "Air & Missile Defense" Test Management Division Team Leader, [please click here](#). An e-mail form will appear that will permit you to view and select the Air & Missile Defense service or services that you would like to discuss and/or receive additional information about. On this same screen you will also be able to list questions, provide comments, request technical materials, ask for a telephone contact from a specific

[functional manager, etc.](#)

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