Aviation Flight Test

Redstone Test Center provides an expert workforce and technologically advanced test equipment to conduct the rigorous testing necessary for U.S. Army acquisition and airworthiness decision makers to equip our soldiers with mission-effective and safe aviation equipment. Our Aviation testers are comprised of diverse and multi-disciplined pilots, engineers, and technical personnel who work with a fleet of aircraft to provide government and commercial customers complete developmental flight test and test support services.

To support the fleet of aircraft and more than 5,000 hours of flight testing performed each year, RTC maintains a maintenance and logistics capability, over 140 thousand square feet of hangar space, a flight operations center and a flight test control center.

While much of RTC aviation flight test operations are conducted at Redstone Arsenal, on many occasions test activities are executed at remote locations throughout the United States to include Yuma Proving Grounds, Ariz.; Eglin Air Force Base, Fla.; and Duluth, Minn. when specific capabilities or climatic conditions are required.
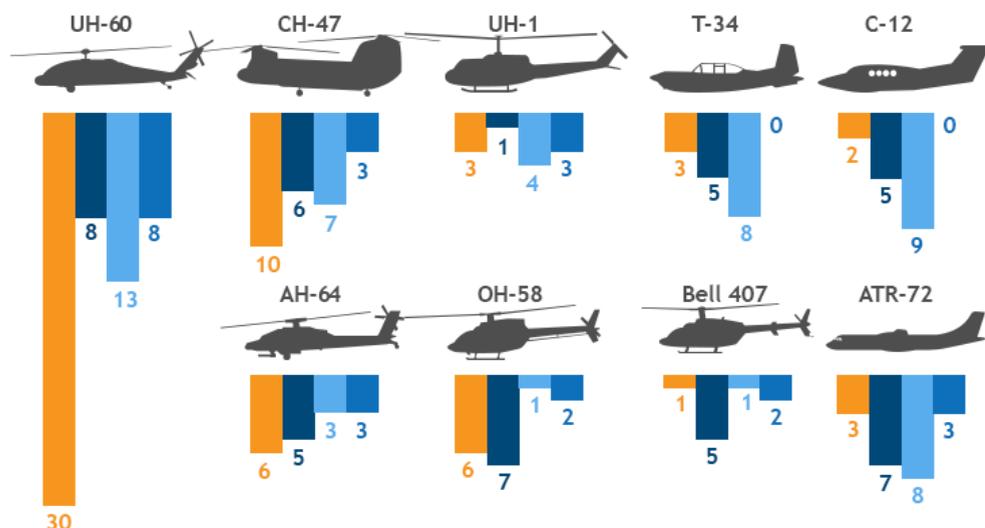
Core Competencies

- Aircraft Survivability Testing
- Unmanned Aircraft System & Manned-Unmanned Teaming
- Targeting/Pilotage Sensors
- Navigation/Communications/ Avionics
- Aircraft Platform Interoperability
- Software Regression
- Aircraft Performance
- Handling Qualities
- Aircraft Icing Testing – Natural & Artificial

Capability Highlight

The JCH-47D helicopter icing spray system aircraft is an airborne spray tanker that uses water from the 1,800-gal capacity tank to create an artificial icing cloud used in qualification testing.

Aircraft/Pilots

Aircraft	MIL	DAC	KTR
UH-60	30	8	13
		8	
CH-47	10	6	7
			3
UH-1	3	1	3
		4	
T-34	3	5	0
			8
C-12	2	5	0
			9
AH-64	6	5	3
			3
OH-58	6	7	1
			2
Bell 407	1	5	1
			2
ATR-72	7	8	3
			3

Total: **64 Aircraft**   **25 MIL Pilots**   **23 DAC Pilots**   **17 KTR Pilots**