National Aeronautics and Space Administration

NASA Glenn Research Center

Center Overview

NASA's Glenn Research Center in Cleveland, Ohio, researches, designs, develops and tests innovative technology for aeronautics and spaceflight. We design game-changing technology that enables further exploration of the universe and revolutionizes air travel.

One of 10 NASA centers, Glenn is an essential component of NASA and an integral contributor to the region.

Glenn
- Is a vital element of the region's economy
- Partners with local and national businesses
- Collaborates with colleges and universities
- Shares NASA's message at schools, fairs and events
- Promotes science, technology, engineering and mathematics

Innovative Expertise
Glenn supports all of the agency's missions and major programs. A multitude of NASA missions have included elements from Glenn, from the Mercury and Gemini projects to the Space Shuttle Program and the International Space Station.

Today, Glenn is working to advance the next generation of commercial passenger aircraft. Using hybrid-electric propulsion and advanced airframes, the aircraft of the 2030s and 2040s will carry travelers across great distances using only a fraction of the fuel consumed by the airliners of today.

Glenn's solar electric propulsion will help propel future exploration missions to the Moon and eventually Mars, where astronauts will conduct scientific research and establish a presence on the surface.

Our work has earned a multitude of awards, including an Emmy, three Collier Trophies, five NASA Software of the Year Awards and more than 120 R&D 100 Awards (also known as the Oscars of innovation).

We are experts in
- Air-Breathing Propulsion (Jet Engines)
- Communications Technology and Development
- In-Space Propulsion and Cryogenic Fluids Management
- Power, Energy Storage and Conversion
- Materials and Structures for Extreme Environments
- Physical Sciences and Biomedical Technologies in Space


Air-Breathing Propulsion

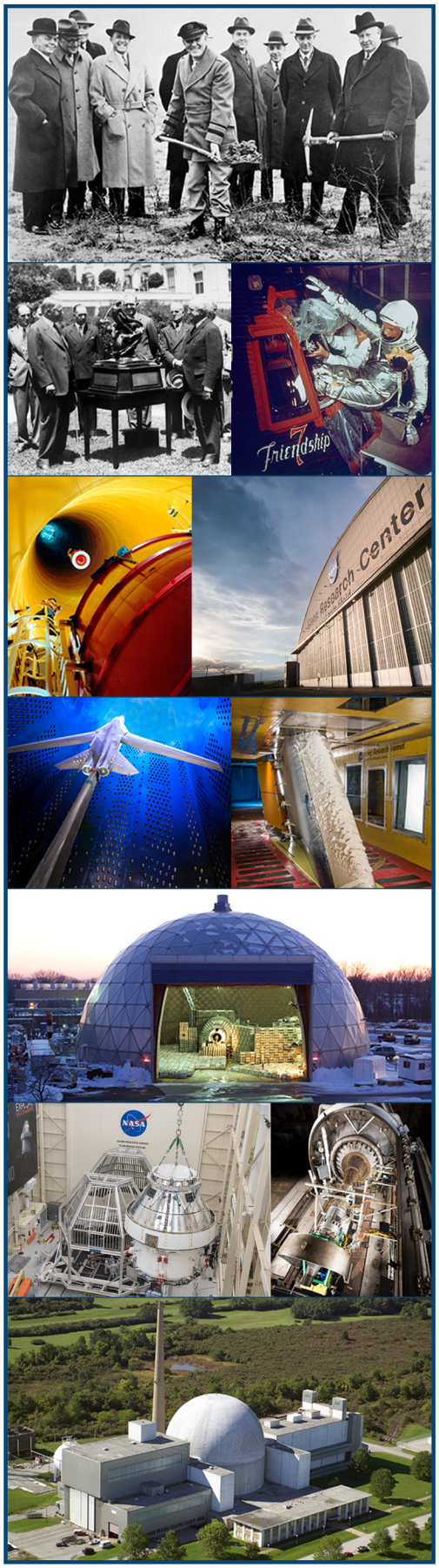

Communications Technology and Development


In-Space Propulsion and Cryogenic Fluids Management


Power, Energy Storage and Conversion


Materials and Structures for Extreme Environments


Physical Sciences and Biomedical Technologies in Space



Brief History

NASA's Glenn Research Center was founded in 1941 by the National Advisory Committee for Aeronautics (NACA), which was the precursor to NASA. Glenn was initially called the Aircraft Engine Research Laboratory. After several name changes, in 1999 it received its current name, the NASA John H. Glenn Research Center. The center was named in honor of former senator John H. Glenn, an Ohioan who was the first American to orbit Earth when he piloted "Friendship 7" around the globe three times in 1962.

Facilities

Located near Cleveland Hopkins International Airport and the Cleveland Metroparks' Rocky River Reservation, Glenn's main campus, Lewis Field, is situated on 350 acres of land and contains more than 150 buildings. The world-class facilities at Lewis Field include wind tunnels, drop towers, vacuum chambers and an aircraft hangar.

NASA's Neil A. Armstrong Test Facility, a subset of NASA Glenn, is located 50 miles west of Cleveland in Sandusky, Ohio, on 6,400 acres of land. The test facility has large, unique facilities that simulate the environment of space. Both locations enable NASA, other government agencies, and academic and industry partners from across the country to perform specialized research and testing.

Staff

More than 3,000 people work at Glenn, including civil servants and on-site contractors. A highly skilled workforce of scientists, engineers, technicians and administrative and support personnel comprise the robust and diverse Glenn team. Dr. Marla Pérez-Davis currently serves as Glenn's director.

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