National Aeronautics and Space Administration

Marshall Space Flight Center

Launching the Future of Science and Exploration







Marshall Space Flight Center supports NASA's mission in three key areas:

Lifting from Earth

Marshall is NASA's designated developer and integrator of launch systems. The Center has the engineering capabilities to take space vehicles from the drawing board to operation. This expertise encompasses systems engineering, testing, manufacturing, and operations.

As the future of space travel evolves, Marshall will play a major role in delivering the systems and technology needed for the next generation of space launch vehicles.

Living and Working in Space

Marshall supports work on the International Space Station through the Payload Operations Center (POC). Personnel in the POC manage experiments on the station around the clock. They integrate the various components and manage the logistics involved in getting these payloads to the station.

Marshall also develops the systems used for experiments and for life support. The oxygen and water recycling unit is just one example of ingenuity from the people at Marshall.

Understanding Our World and Beyond

Marshall is involved in some of the most exciting and innovative scientific discoveries of our time. The deep space images from the Hubble Space Telescope and the Chandra X-ray Observatory are made possible in part by the people and facilities at Marshall. Not only does the Center help design and build the telescopes, but it is home to the world's only facility for testing large telescope mirrors in a space-simulated environment.

Teams at Marshall manage NASA's programs for exploring the sun, the moon, the planets, and other bodies throughout our solar system. Marshall also develops systems for monitoring the Earth's climate and weather patterns. Data from Earth systems is combined with satellite data to provide information that improves agriculture, urban planning, and water resource management.

Launching the Future

Future scientific and human exploration missions will require the bright minds of today's young people. Marshall's education and outreach teams engage the young and old who participate in:

- The Great Moonbuggy Race
- Student Launch Initiatives
- Speakers Bureau
- Traveling exhibits

Spinoffs

In the last decade alone, Marshall generated more than 60 technologies featured as NASA spinoffs.

Marshall research has benefited firefighters, farmers, plumbers, healthcare providers, soldiers, teachers, pilots, divers, welders, architects, photographers, city planners, disaster relief workers, criminal investigators, and even video-gamers, and golfers.

Visit *www.sti.nasa.gov/tto/.*

Marshall's Visitor Center

Marshall Space Flight Center is located in the restricted access area of the U.S. Army's Redstone Arsenal. The official Visitor Information Center for Marshall is located at the U.S. Space & Rocket Center. This museum includes interactive exhibits and unique historic artifacts that demonstrate Marshall's critical role in supporting NASA's missions.

Learn More

www.nasa.gov/marshall

For more details, download the Marshall Pocket Guide here.

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