



# ORION

The Orion spacecraft enables NASA to make the next giant leap in deep space exploration. It is built upon 50 years of human spaceflight mission experience and will enable astronauts to travel farther into space than ever before to explore destinations beyond low Earth orbit such as asteroids and even Mars. The spacecraft has been designed, assembled and tested with advanced technologies and equipment from all over the country making it the safest and most capable human space exploration vehicle ever built.

Orion consists of three modules: a launch abort system, a crew module and a service module.

#### Launch Abort System

The launch abort system, positioned on a tower atop the crew module, can activate within milliseconds to propel the vehicle to safety and position the crew module for a safe landing.

#### Crew Module

The crew module is capable of transporting four crew members beyond the moon, providing a safe habitat from launch through landing and recovery. Inside the familiar deep-space capsule shape are advances in life support, avionics, power systems, and advanced manufacturing techniques.

#### Service Module

Created in collaboration with ESA (European Space Agency), the service module provides support to the crew module from launch through separation prior to entry. It provides in-space propulsion for orbital transfer, power and thermal control, attitude control and high altitude ascent aborts. While mated with the crew module, it also provides water and air to support the crew.



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# NEW YORK

NASA's Journey to Mars travels through Orion's award-winning business partners in 48 states and Puerto Rico. Our suppliers have supported NASA and Lockheed Martin and were key to our success on NASA's Exploration Flight Test-1 in 2014. A series of increasingly challenging missions awaits, and America's new Orion spacecraft and Space Launch System will take us farther than we've gone before, including to Mars. We are proud to have the business community with us as we travel to destinations across our solar system. Below is a list of some of our New York companies that have contributed to the Orion Program since its inception.



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