



National Aeronautics and  
Space Administration



# COMMERCIAL CREW





## Boeing Crew Flight Test



**Nicole Aunapu Mann**  
NASA Astronaut  
Marine Corps  
Lieutenant Colonel

Selected as an Astronaut in 2013, this is Nicole's first spaceflight.



**Chris Ferguson**  
Boeing Astronaut  
Navy Captain (retired)

Piloted space shuttle Atlantis for STS-115, and commanded shuttle Endeavour on STS-126 and Atlantis on STS-135, the final flight of the Space Shuttle Program.



**Mike Fincke**  
NASA Astronaut  
Air Force Colonel (retired)

Aboard shuttle Endeavour on STS-134, Fincke served as Mission Specialist 1 on the flight deck and as a spacewalker and robotic arm operator.

## Boeing's First Operational Mission



**Suni Williams**  
NASA Astronaut  
Navy Captain (retired)

Spent 322 days in space on two space station missions, Expeditions 14/15 and Expeditions 32/33. Commander of the International Space Station on Expedition 33.



**Josh Cassada**  
NASA Astronaut  
Navy Commander

Selected as an Astronaut in 2013, this is Josh's first spaceflight.

# A NEW SPACE AGE

NASA's Commercial Crew Program spacecraft and rockets will carry up to four astronauts and about 220 pounds of cargo to and from the International Space Station. Commercial crew will resume human spaceflight launches from the United States and provide the nation with two unique spacecraft, two human-rated rockets and the necessary ground support systems. NASA and our commercial partners, Boeing and SpaceX, are working together to open access to low-Earth orbit.

## BUILDING A NEW AMERICAN CAPABILITY

NASA's Commercial Crew Program has been redefining space system development for low-Earth orbit by forming strong public-private partnerships with the aerospace industry to encourage innovation while maintaining NASA's high safety standards and leveraging NASA's 50 plus years of spaceflight experience. Commercial crew partners with industry to advance a diverse economic market in space including Blue Origin with spacecraft, engines and systems, and Sierra Nevada Corporation with the Dream Chaser spacecraft. NASA selected the Dream Chaser's cargo version to ferry supplies, equipment and experiments to and from the orbiting laboratory under the Commercial Resupply Services-2 contract. Both Sierra Nevada Corporation and Blue Origin are also working toward the goal of flying people to and from low-Earth orbit.

## PARALLEL PATH FOR EXPLORATION

NASA's work to turn over low-Earth orbit astronaut transportation to commercial companies, like Boeing and SpaceX, allows the agency to use other resources to develop the Orion spacecraft and Space Launch System rocket for missions into deep space. Both destinations—the International Space Station and deep space—are vital in the nation's space exploration efforts, and one cannot be successful without the other.

## FLIGHT TEST AND FIRST MISSION CREWS

NASA selected eight of its astronauts in August 2018 to crew the first flights of Boeing's Starliner and SpaceX's Crew Dragon. In addition, Boeing introduced its astronaut for the company's Crew Flight Test, for a total of nine crew members. These brave men and women will be the first to fly to space on American-made systems since the space shuttle's retirement.

Stay connected with **NASA's Commercial Crew Program:**



[www.twitter.com/commercial\\_crew](https://www.twitter.com/commercial_crew)



[www.facebook.com/NASACommercialCrew](https://www.facebook.com/NASACommercialCrew)

[www.nasa.gov/commercialcrew](https://www.nasa.gov/commercialcrew)

[blogs.nasa.gov/commercialcrew](https://blogs.nasa.gov/commercialcrew)

## SpaceX Demo 2



**Bob Behnken**  
NASA Astronaut  
Air Force Colonel

Flew aboard space shuttle Endeavour twice as a Mission Specialist, first on STS-123 and then on STS-130.



**Doug Hurley**  
NASA Astronaut  
Marine Corps Colonel (retired)

Piloted space shuttle Endeavor for STS-127 and Atlantis for STS-135, the final space shuttle mission.

## SpaceX's First Operational Mission



**Mike Hopkins**  
NASA Astronaut  
Air Force Colonel

Spent 166 days on the International Space Station for Expeditions 37/38.



**Victor Glover**  
NASA Astronaut  
Navy Commander

Selected as an Astronaut in 2013, this is Victor's first spaceflight.

COMMERCIAL  
**CREW**