

# FLORIDA Space Day

# 2022

## United Launch Alliance



Vulcan Centaur

Leveraging a legacy of 100% mission success over 148 launches, ULA is the industry's most experienced launch team with world leading reliability, schedule confidence and mission optimization

Launching the Vulcan rocket from Florida in 2022, Vulcan's evolutionary design coupled with innovative technology provides one system for all missions

Honored to support human spaceflight as a partner to NASA's Artemis and Commercial Crew programs

Proud partner of NASA's science and exploration missions and reliable partner to the U.S. Space Force and the National Reconnaissance Office

## Lockheed Martin



Orion

Assembled in state-of-art facility and launched from NASA KSC

Only "exploration-class" spacecraft rated for human deep space exploration to Moon and Mars

Orion Artemis I spacecraft ready for launch aboard SLS rocket for historic mission around Moon

Orion Artemis II in assembly at KSC to support first crewed mission around Moon

Orion Artemis III in assembly to carry first woman and first person of color to lunar lander to transit to Moon

## Boeing



CST-100 Starliner



X-37B

Starliner is the first commercial spacecraft built in Florida, a reusable capsule for cost-effective rides to the ISS

Space Launch System is the largest rocket built, launching crew and massive cargo to the Moon for NASA's Artemis program

X-37B is the USAF's uncrewed, reusable vehicle with technologies that support long-term space objectives

International Space Station is the on-orbit laboratory enabling scientific research supporting innovation on Earth and future space exploration, with Boeing providing support and processing capabilities



Space Launch Systems



International Space Station

## HIGHLIGHTS OF SPACE PROGRAMS IN FLORIDA

## SpaceX



Falcon 9



Dragon

More than 100 successful Falcon 9 and Falcon Heavy launches for NASA, DOD and commercial customers since 2010

The world's only operator of reusable orbital-class launch vehicles, with over 70 successful first stage rocket landings since 2015

Conducting routine crew and cargo missions for NASA to the ISS

Restored America's human spaceflight access with the successful Demo-2 mission in May 2020

## Blue Origin



New Glenn

Single configuration commercial orbital launch vehicle with a 7-meter fairing

Fully reusable first stage that lands on a moving ship

Manufactured on the Space Coast in over 1 million square feet of 21st century factory space

Launched from Cape Canaveral at historic LC-36 which Blue Origin rebuilt from the ground up

## Northrop Grumman



Solid Rocket Boosters & Launch Abort System

Northrop Grumman supports NASA's Artemis program by providing the solid rocket boosters for the NASA Space Launch System and the abort motor and attitude control motor for the Orion spacecraft's Launch Abort System

Each five-segment booster contributes 22-million-hp and 3.6 million pounds of thrust — the largest human-rated solid rocket boosters ever built for flight

The LAS for the Orion spacecraft is fixed atop SLS and designed to protect astronauts if a problem arises during launch or initial ascent. The LAS motors lift and carry the crew capsule away from SLS and to safety

## Aerojet Rocketdyne



RL10 Engine

The RL10 engine, manufactured in Florida since 1962 is the highest performing production liquid rocket engine in the world. Powering spacecrafts to explore every planet in our solar system as well as, ULA's Atlas V, Delta IV, Vulcan and NASA's SLS upper stages

AL RL10 engines and major components for the RS-25 are built at Aerojet Rocketdyne in Florida by a team of 500+ employees

Aerojet Rocketdyne builds propulsion systems for the SLS and the Orion spacecraft that will return humans to the Moon under NASA's Artemis program

INNOVATION. IMPACT. INSPIRATION. MOMENTUM.



Capturing the collective economic and inspirational value of the space industry in the State of Florida.

**31** SUCCESSFUL LAUNCHES IN 2021

Source: Space Florida Annual Report 2021

**FLORIDA**  
IS THE NATIONAL LEADER  
IN ANNUAL AVIATION & AEROSPACE BUSINESS EXPORTS  
**\$7.6+ billion**

Source: AIAA Aerospace Key Facts and Figures



**FLORIDA**  
AEROSPACE  
EMPLOYMENT  
**130,000+**

Source: AIAA Aerospace Key Facts and Figures

2022

**FLORIDA**  
*Space Day*  
PARTNERS



[FloridaSpaceDay.com](http://FloridaSpaceDay.com)

#FLSpaceDay

The Florida Space Day is an organized and united effort to express to policymakers an appreciation of their support for the space industry, educate them on the statewide economic impact of space and to develop and advocate for key initiatives that will enhance the competitiveness and viability of the State of Florida in the aerospace sector.