

What Does NASA Do?

Aeronautics Research



Transform Aviation through R&D

Space Operations



Launch and Space Operations

Deep Space Exploration Sys.



Moon to Mars Exploration

Science





Understand the Sun, Earth, and Universe

Space Technology





Develop and transfer revolutionary technologies



Ames Aeronautical Laboratory

NASA

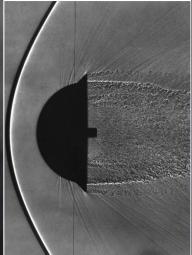
NACA's Second Laboratory

























"Langley Memorial
Aeronautical Laboratory"
Langley Research Center (LaRC)

1915 1917

"Ames Aeronautical Laboratory"
Ames Research Center (ARC)

1939

"Aircraft Engine Research Laboratory"
Glenn Research Center (GRC)

"Muroc Flight Test Unit"
Armstrong Flight Research Center (AFRC)

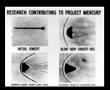






















1940 2020

83 Years of Innovation







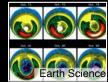




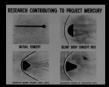
































1940 2020



83 Years of Innovation













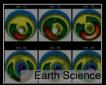










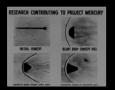












































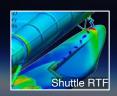














1940 2020



Ames Today



Occupants

~1,300 civil servants

~1,900 on-site contractors

~2,400 NRP workforce

~700 summer students in 2019

FY21 Budget

~\$1B (includes reimbursable/EUL)

Real Property

~1,100 acres

400 acres security perimeter

5M building ft²

Airfield with ~9,000 and 8,000 ft. runways



Ames Today (NASA Research Park)



Occupants

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FY21 Budget

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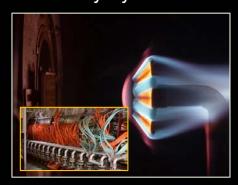
Airfield with ~9,000 and 8,000 ft. runways

Core Competencies

Air Traffic Management



Entry Systems



Advanced Computing & IT



Intelligent /
Adaptive Systems



Cost-Effective Space Missions



Aerosciences



Astrobiology & Life Science



Space & Earth Sciences





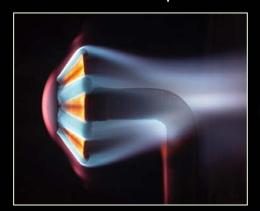
Major Research Facilities

Wind Tunnels

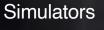




Arc Jet Complex













Supercomputing











Aeronautics Research

Transform aviation through revolutionary technology research, development, and transfer



















Convergent

Aeronautics Solutions

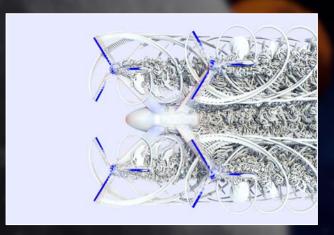




Aeronautics Research Advanced Air Mobility













Exploration Systems Development

Define and manage systems development for programs critical to Artemis and plan the Moon to Mars exploration approach in an integrated manner



Orion Space Craft



Space Launch System



Exploration Ground Systems



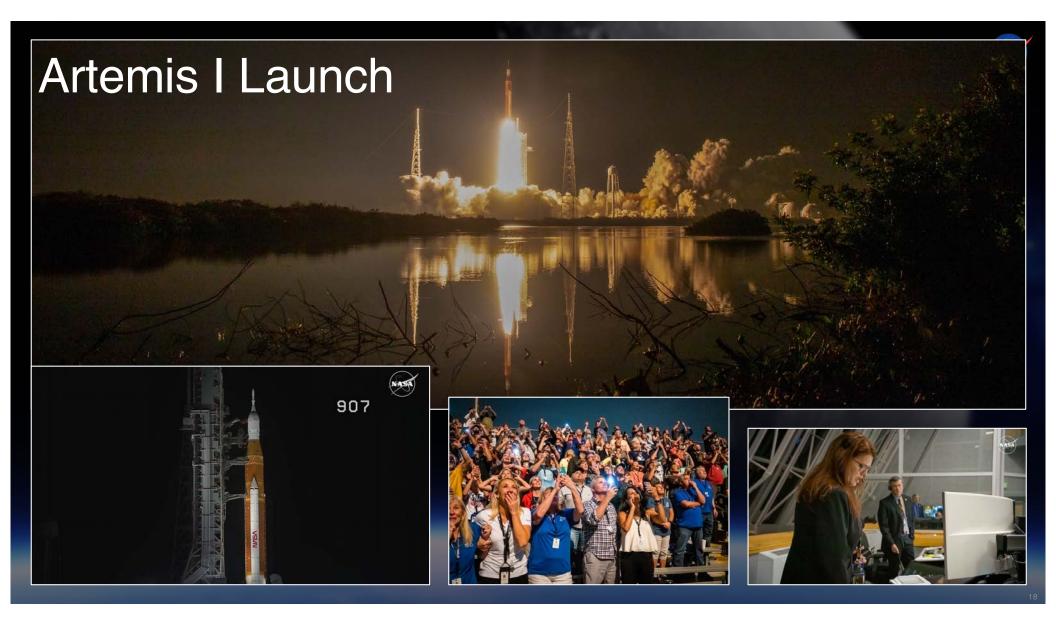
Gateway



Human Landing System

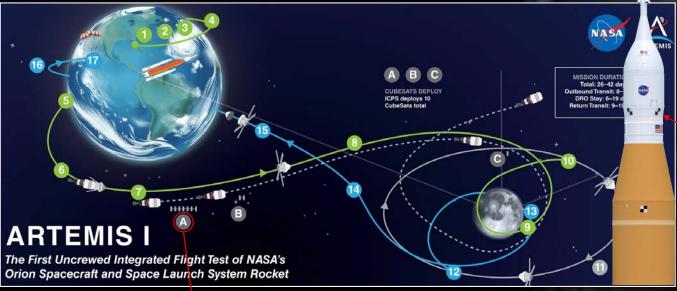


Artemis Base Camp



Artemis I Mission

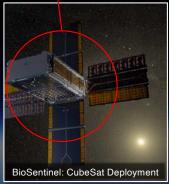








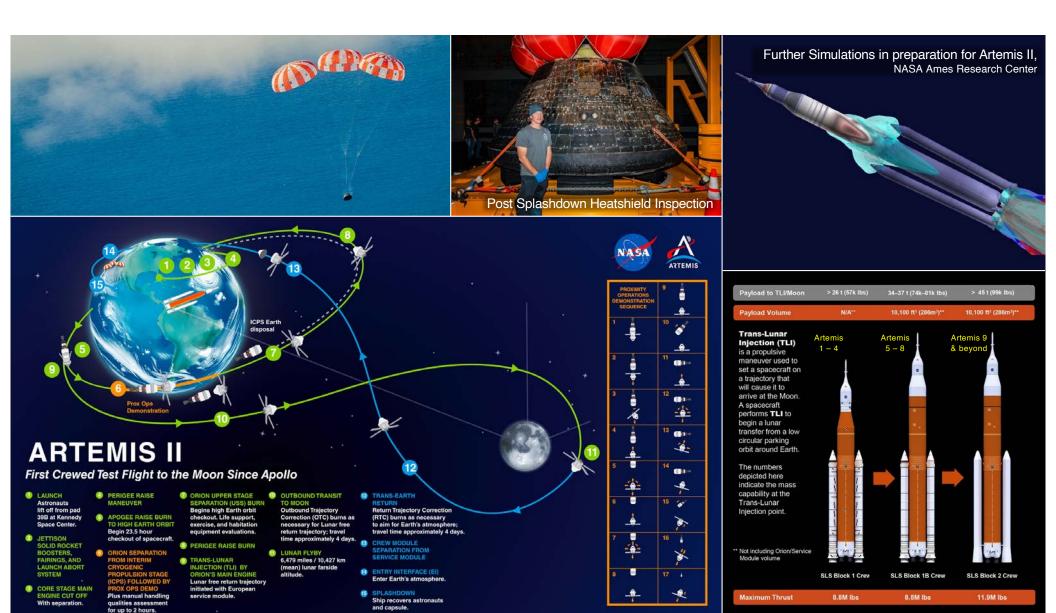






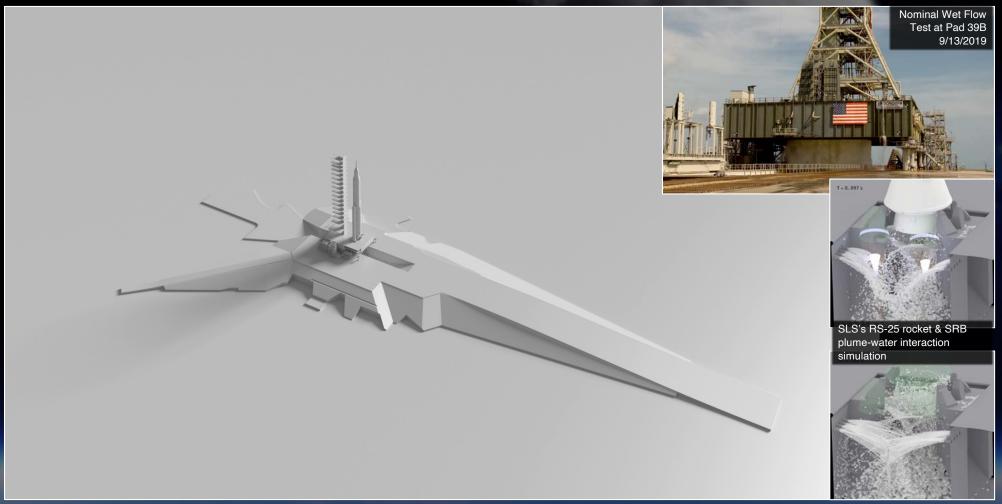








Launch Environment Simulation



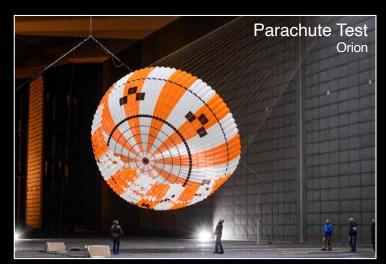
Artemis I Launch: Stage Separation Simulation

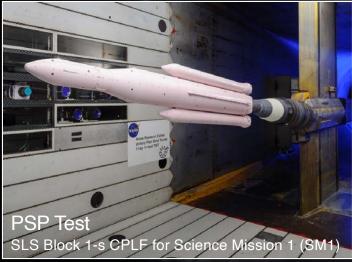


Exploration Systems Development

NASA

Wind Tunnel Testing









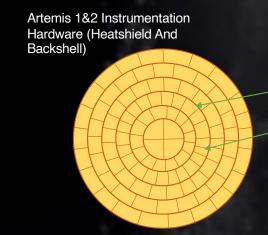


Exploration Systems Development



Heatshield and Backshell Development











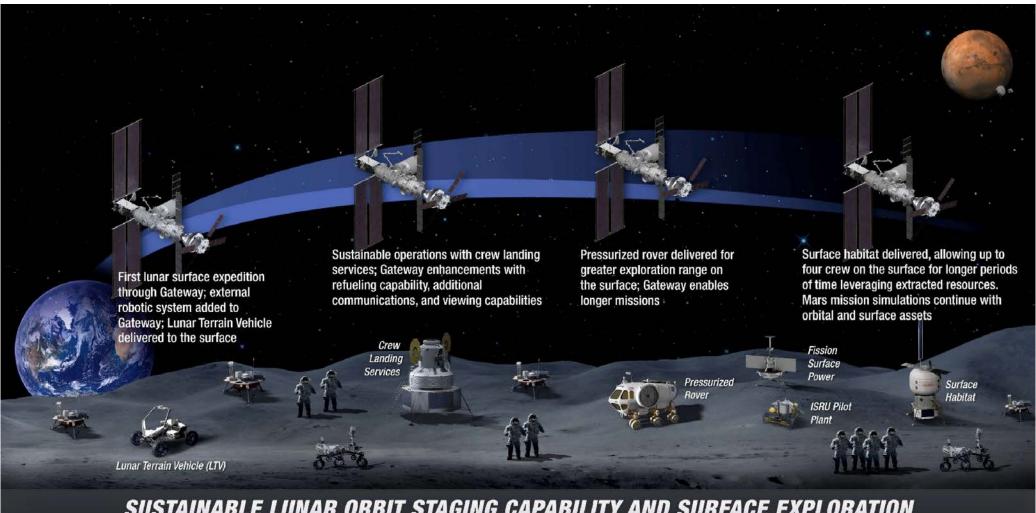
Thermocouple plug



Radiometer sub-assembly prior to installation into heat shield

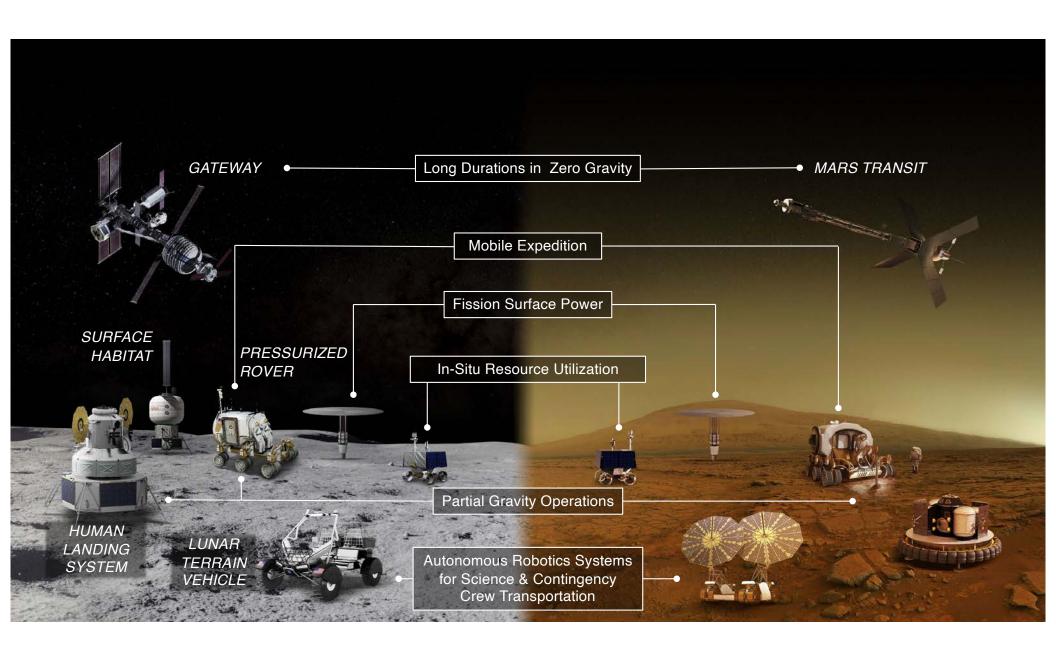


Engineers from Ames Research Center and Marshall Space Flight Center remove Avcoat segments from the surface of the Orion heat shield.



SUSTAINABLE LUNAR ORBIT STAGING CAPABILITY AND SURFACE EXPLORATION

MULTIPLE SCIENCE AND CARGO PAYLOADS I U.S. GOVERNMENT, INDUSTRY, AND INTERNATIONAL PARTNERSHIP OPPORTUNITIES I TECHNOLOGY AND OPERATIONS DEMONSTRATIONS FOR MARS





VIPER Surface Segment (Rover + Instruments)



Subsurface excavation TRIDENT Drill

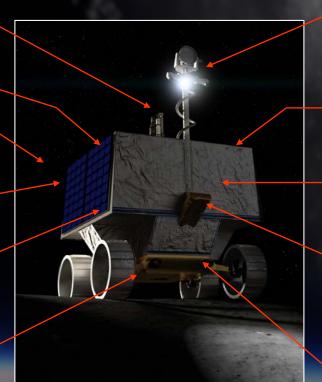
Localization Star tracker

Situational Awareness Aft Cams (1pr)

Situational Awareness Hazard Cams (2 cams x 2 sides)

Power Solar Array (3-sides)

Prospecting & Evaluation
Mass Spectrometer
Observing Lunar
Operations (MSolo)
Instrument



Situational Awareness
& Communication

Lights (1pr)
Antenna Mast

Heat Rejection Radiator (on top)

Rover Control Flight Avionics (internal)

Prospecting
Neutron Spectrometer
System (NSS) Instrument

Prospecting & Evaluation
Near Infrared Volatiles
Spectrometer System
(NIRVSS) Instrument



Science

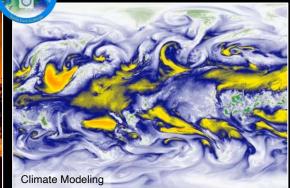
Understand the Sun, Earth, Solar System, and Universe













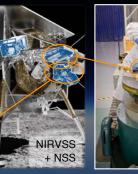






Wildfire Detection

& Tracking

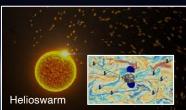








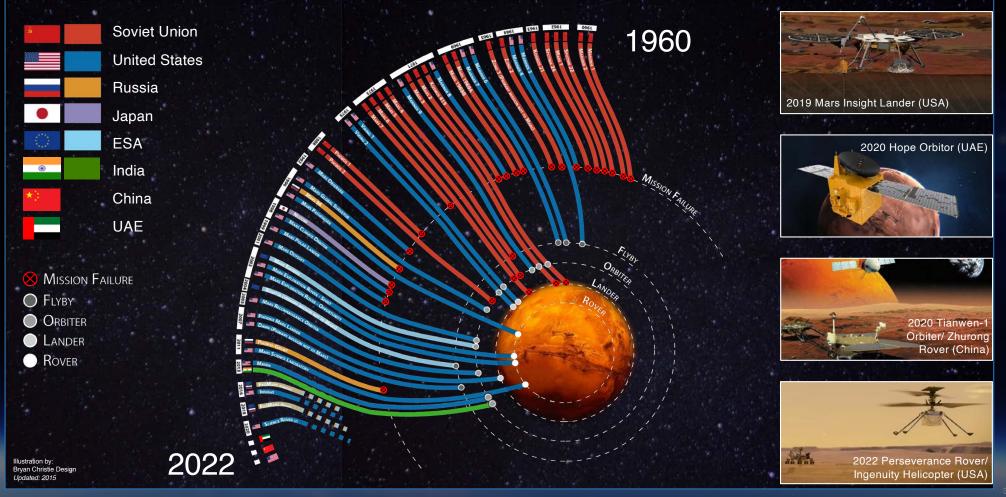








Sixty Years of Mars Missions





MARS Perseverance Rover and Ingenuity Helicopter



















Measuring the Extreme Environment During Landing





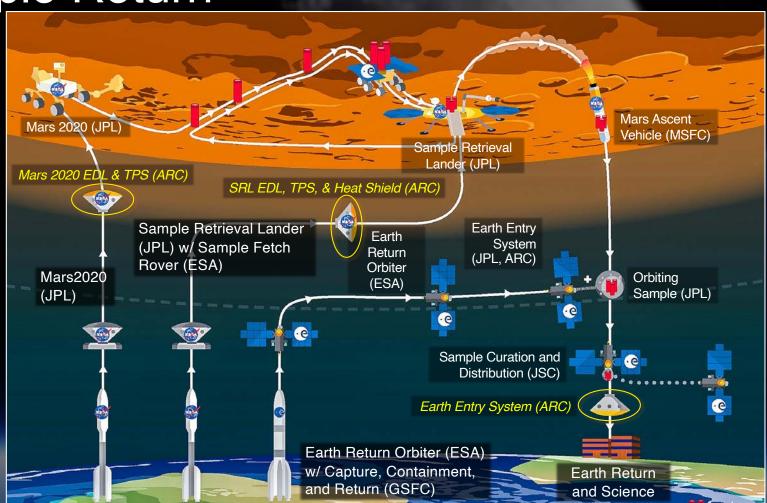




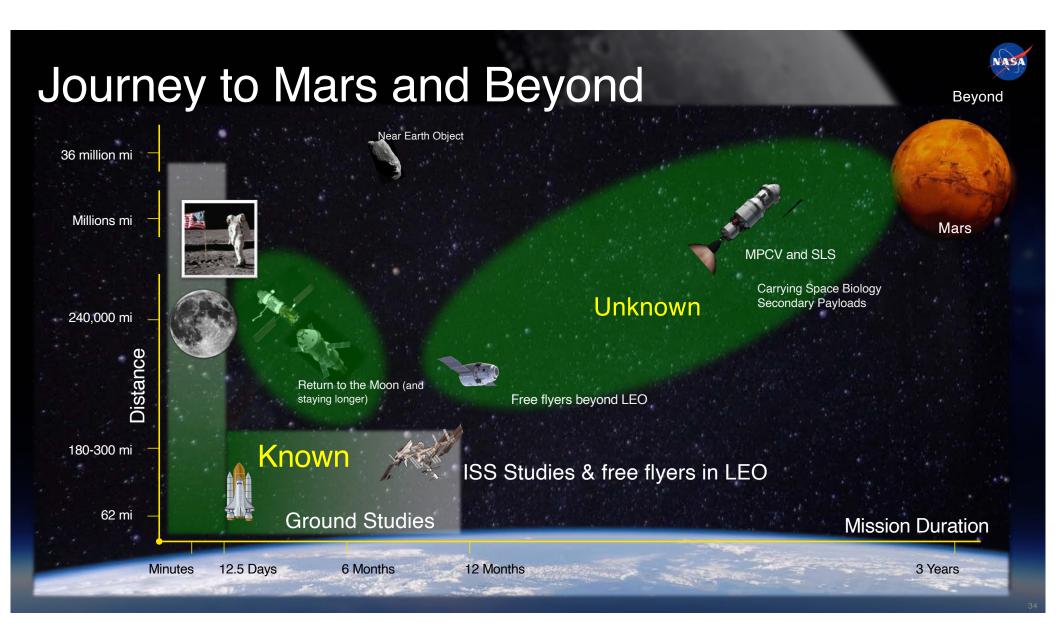










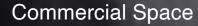




Space Operations

Launch and space operations, including the International Space Station, the commercialization of low-Earth orbit, and eventually, sustaining operations on and around the Moon

International Space Station: Automation& Flight Projects



















Space Biology

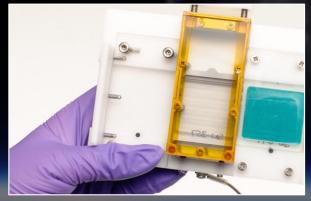
Rodent Research





Fruit Fly Labs





Bioculture System Validation

















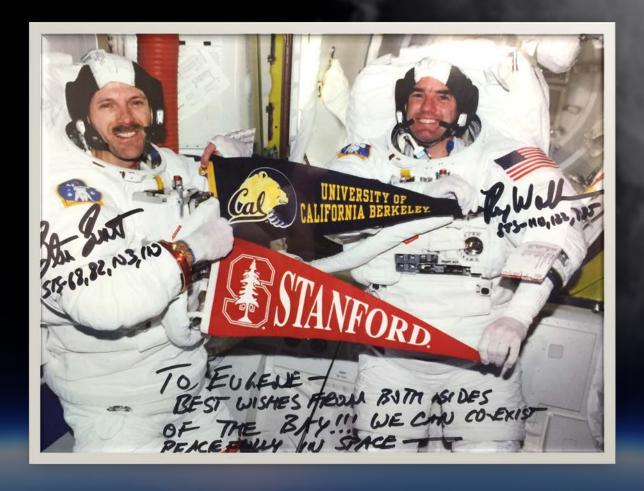


Co-op Student — Eugene L. Tu









Opportunities at Ames

Upcoming openings:

- Computer Scientists
- Engineers: Aerospace, Software, Electrical, Materials, Systems
- Physical Scientists: Astrobiology, Biosciences, Space, and Earth Sciences
- Business Operations (HR, Public Affairs, Procurement, IT)

Pathways and Education Programs:
Internships, Fellowships, Intern Employment
and Recent Graduate Program

- Engineering
- Physical Scientist
- Human Resources
- Finance
- Business Administration

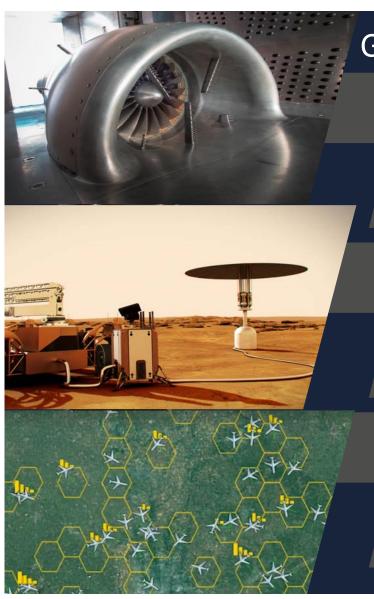


www.usajobs.gov









Glenn Core Competencies

Aircraft Propulsion

In-Space Propulsion & Cryogenics

Power, Energy Storage & Conversion

Materials & Structures for Extreme Environments

Communications Technology

Physical Sciences & Biomedical Tech



