Not So Hidden Figures: Extraordinary Individuals Ensuring an Inclusive and Diverse Future in Space

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Native of South Carolina

Bachelor of Science in Engineering, Clemson University
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NASA’s Johnson Space Center (JSC) is home to
America’s Astronaut Corps
Mission Control Center
International Space Station and Artemis programs
More than 11,000 civil service and contractor employees

JSC is recognized by Forbes and Statista
As #1 Best Employer among Texas’ major employers
CHAPEA
Crew Health and Performance Exploration Analog

Mars Sample Return - SRP
Sample Receiving Project
CHAPEA Mission 1 Crew

Kelly Haston  
Commander

Ross Brockwell  
Flight Engineer

Nathan Jones  
Medical Officer

Alyssa Shannon  
Science Officer
Curation of all NASA-held Extraterrestrial Materials

Apollo program lunar rocks and soils; Luna samples 1969

Antarctic Search for Meteorites (ANSMET) program 1977

Cosmic dust from Earth’s stratosphere from high altitude aircraft 1981

Space exposed hardware from orbiting spacecraft 1985

Solar wind samples at Earth-Sun L1 point 2004

Cometary and interstellar samples from Comet Wild 2 2006

 Subset of samples collected from JAXA asteroid mission to Itokawa 2012

 Subset of samples collected from JAXA asteroid mission to Ryugu 2020

OSIRIS-REx 2023
Asteroid sample return from Bennu

Moon 2020s
Various sample types, Non-volatile farside, polar samples

Phobos 2029
JAXA MMX mission to bring back Phobos material

Mars 2033
NASA-ESA Joint Mars Sample Return Campaign

Comet Nucleus, Icy Bodies 2030s+
Enabling new types of samples

Future only limited by our imagination and ability to handle

Coming Soon . . .

Our Future . . .
Mars Sample Return Campaign
Following the Samples

Mars Sample Return Program

1. Mars 2020 Sample Caching
   Collect rock, regolith & atmosphere samples
   Cache samples on the surface

2. Sample Retrieval Lander (SRL)
   Retrieve samples cached by Mars 2020 rover
   Launch samples into orbit around Mars

3. Earth Return Orbiter (ERO)
   Capture & contain samples in Mars orbit
   Safely return samples to Earth for recovery at landing site

4. Sample Receiving Project
   Recover & transport contained samples to receiving facility
   Safety assessment & sample containment
   Initial sample science and curation

JSC-led

Long-term Curation and Science
Study, storage and processing
Primary Goal
Enable safe and rapid release of returned samples to world-wide labs for scientific investigations.