

## CHALLENGER LEARNING CENTER OF MAINE JOB DESCRIPTIONS

### COMMUNICATION SPECIALIST

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team is responsible for all verbal communication between Mission Control and the spacecraft.

**JOB REQUIREMENTS:** Applicants must be good readers, good oral communicators, be able to handle stressful situations and multiple tasks.



NASA Jessica Meir,  
Maine Astronaut



NASA Lori Meggs,  
ISS Commentator



Communication Specialist, Challenger  
Learning Center of Maine

### SPACE WEATHER FORECASTER

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team is responsible for monitoring satellites that track solar flares and conducting an experiment about the Earth's magnetic field.

**JOB REQUIREMENTS:** Applicants must be good at entering data into tables and charts, and have an interest in researching solar storms.



NASA Shane Kimbrough,  
Astronaut



NASA Yihua Zheng,  
Antti Pulkkinen, Forecasters



Space Meteorologist, Challenger  
Learning Center of Maine

### ROBOTIC SPECIALIST

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team will check for chemical leaks on board the spacecraft.

**JOB REQUIREMENTS:** Applicants must have good hand/eye coordination and high frustration tolerance. Will use a robotic arm.



NASA Chris Cassidy,  
Maine Astronaut



NASA Annie Caraccio,  
Chemical Engineer



Robotic Specialist, Challenger  
Learning Center of Maine

### MEDICAL

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team is responsible for performing medical tests to check the health of the spacecraft crew. Tests include: breathing rate, skin temperature, blood pressure and heart rate.

**JOB REQUIREMENTS:** Applicants must be accurate at entering data into tables and charts, and have a strong interest in biology.

REV. 10/17



ESA Alexander Gerst,  
Space Ocular Researcher



NASA Dr. Sarah Wallace,  
Biomolecule Sequencer



Medical Specialist, Challenger  
Learning Center of Maine

## BIOLOGIST

(RENDEZVOUS / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team is responsible for researching and monitoring types of fish, plants, and insects that have been to space.

**JOB REQUIREMENTS:** Applicants must have good observational skills. Position involves glove box use.



RSA Sergei Volkov,  
Cosmonaut



NASA Howard Levine,  
Chief Scientist



Biologist, Challenger  
Learning Center of Maine

## NAVIGATOR

(RENDEZVOUS / MOON)

**JOB DESCRIPTION:** This team is responsible for figuring out the exact location of the comet (RENDEZVOUS) or how to orbit the moon to deploy equipment (MOON).

**JOB REQUIREMENTS:** Applicants must work quickly and carefully and have excellent communication skills, including the ability to read aloud and follow verbal procedures. Map skills are preferred.



NASA Suni Williams,  
Astronaut, SpaceX Crew



NASA Eric Gilligan,  
Launch Test Engineer



Navigator, Challenger  
Learning Center of Maine

## AERONAUTICAL ENGINEER

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team is responsible for building the probe/equipment motherboard that will be deployed to collect and send data to Mission Control (RENDEZVOUS / BECOMING A SCIENTIST) or deliver materials to the Moon for a future base (MOON).

**JOB REQUIREMENTS:** Applicants must be good at assembling parts, have good communication skills, be able to work independently.



NASA Karen Nyberg,  
Astronaut, Mechanical Engineer



NASA Chris Randall,  
Aeronautical Engineer



Aero Engineer, Challenger  
Learning Center of Maine

## LIFE SUPPORT SPECIALIST

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** This team is responsible for checking the systems that keep astronauts alive. They will monitor the humidity, oxygen, air pressure, and water supply.

**JOB REQUIREMENTS:** Applicants must be good problem solvers, be able to read gauges, and work well in stressful situations.



ESA Thomas Pesquet,  
Astronaut, France



NASA Laura Beachy,  
Environmental/Thermal Control



Life Support Specialist, Challenger  
Learning Center of Maine

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## SAM

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** The SOLAR ARRAY MONITORING team is responsible for monitoring micrometeoroid damage to the solar arrays on board the spacecraft.

**JOB REQUIREMENTS:** Applicants must be good at basic math. Might be instructed to use a robotic arm to protect the power supply in an emergency.



NASA Emily Nelson, Flight Dir.  
Micrometeoroid Shield Repair



NASA Brian Trease,  
Solar Array Researcher



SAM Specialist, Challenger  
Learning Center of Maine

## HAZMAT

(RENDEZVOUS / MOON / BECOMING A SCIENTIST)

**JOB DESCRIPTION:** The HAZARDOUS MATERIALS team is responsible for checking radiation levels on board the spacecraft and researching safe levels of radiation.

**JOB REQUIREMENTS:** Applicants must be good at basic math, have good hand/eye coordination and a patient demeanor. Will use a robotic arm.



JAXA Naoko Yamazaki,  
Astronaut, Japan



NASA Adam Rusek,  
Space Radiation Laboratory



HAZMAT Specialist, Challenger  
Learning Center of Maine

## GEOLOGIST

(MOON)

**JOB DESCRIPTION:** This team is responsible for observing and analyzing regolith and rock samples, and helping to determine a future lunar landing site.

**JOB REQUIREMENTS:** Applicants must have good math skills, and have good hand/eye coordination for glove box use.



NASA Kjell Lindgren,  
Astronaut



NASA Ryan Anderson,  
Astrogeology Research Geologist



Geologist, Challenger  
Learning Center of Maine

## REPORTER

(for missions with 32+ participants)

**JOB DESCRIPTION:** This team is responsible for interviewing and photographing team members and recording important events that occur during the mission.

**JOB REQUIREMENTS:** Applicants must be good writers, and have photography skills.



ESA Samantha Cristoforetti,  
Astronaut, Italy



NASA Rob Navias,  
Public Affairs



Reporter, Challenger  
Learning Center of Maine