LUNAR QUEST

MISSION JOB DESCRIPTIONS

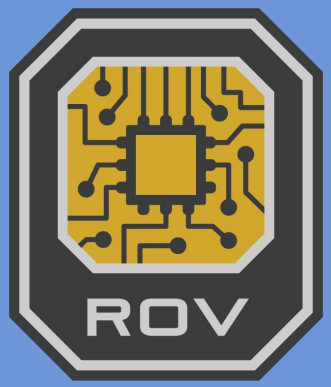


Team	Description	Job Title
	• Provide communication support between astronauts and mission control • Align satellites to ensure that communications are consistent • Encrypt and decrypt messages that contain sensitive information.	• Communications Engineer • Satellite Engineer • Computer Scientist

LUNAR QUEST™

Team	Description	Job Title
	• Pilot the spacecraft. • Calculating simple orbital mechanics for the translunar injection, the descent to the Lunar surface, and the return to Earth.	• Pilot • Aerospace Engineer • Physicist • Aerospace Operations Technician

LUNAR QUEST™

Team	Description	Job Title
	• Build a remotely operated vehicle that is launched to the surface of the Moon to search for lava tubes. • Decide which components are critical to collect and transmit data	• Computer Scientist • Mechanical Engineer • Electrical Engineer • Structural Engineer

LUNAR QUEST™

Team	Description	Job Title
	• These solar panels generate power to run various systems and need a minimum amount of generated power to properly maintain each system. • Determine the efficiency of the solar panels which indicates the type of solar cell that should be used to power the rover	• Electrical Engineer • Solar Astronomer • Physicist • Meteorologist

LUNAR QUEST™

Team	Description	Job Title
	• Run various medical diagnostics on different team members • Provide and determine if treatment plans are needed	• Medical Doctor • Nurse • Epidemiologist • Physician Assistant

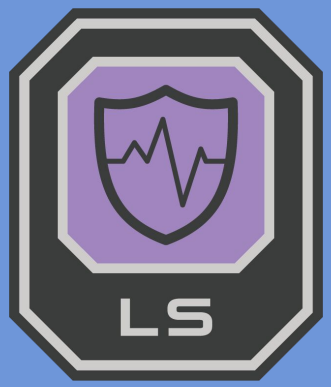
LUNAR QUEST™

Team	Description	Job Title
	• Investigate human lung function and learn about the health effects associated with space radiation exposure • Responsible for monitoring the crew's daily radiation exposure	• Biologist • Epidemiologist • Physiologist • Lab Technician

LUNAR QUEST™

Team	Description	Job Title
	• Programming the components that will be installed on the ROV. • Test the solar panels on the Spacecraft to determine if they are functional for the mission.	• Mechanical Engineer • Electrical Engineer • Systems Technician • Software Engineer

LUNAR QUEST™

Team	Description	Job Title
	• Taking and analyzing readings of various environmental factors, including temperature, humidity, air pressure, oxygen flow, and water potability. • Determining whether conditions are safe onboard the Spacecraft.	• Environmental Engineer • Chemist • Industrial Engineer • Systems Technician

LUNAR QUEST™

Team	Description	Job Title
	• Analyze the geologic properties of the landing sites. • Determine the best location for landing based on terrain and elevation profiles. • Study lunar rock samples to determine which type of lunar rock provides the greatest amount of natural shielding from radiation.	• Planetary Geologist • Chemical Engineer • Seismologist • Land Surveyor

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Team	Description	Job Titles
 	• Provide communication support between astronauts and mission control • Align satellites to ensure that communications are consistent • Encrypt and decrypt messages that contain sensitive information.	• Communications Engineer • Satellite Engineer • Computer Scientist
 	• Pilot the spacecraft. • Calculating simple orbital mechanics for the translunar injection, the descent to the Lunar surface, and the return to Earth.	• Pilot • Aerospace Engineer • Physicist • Aerospace Operations Technician
 	• Build a remotely operated vehicle that is launched to the surface of the Moon to search for lava tubes. • Decide which components are critical to collect and transmit data	• Computer Scientist • Mechanical Engineer • Electrical Engineer • Structural Engineer
	• These solar panels generate power to run various systems and need a minimum amount of generated power to properly maintain each system. • Determine the efficiency of the solar panels which indicates the type of solar cell that should be used to power the rover	• Electrical Engineer • Solar Astronomer • Physicist • Meteorologist
 	• Run various medical diagnostics on different team members • Provide and determine if treatment plans are needed	• Medical Doctor • Nurse • Epidemiologist • Physician Assistant
	• Investigate human lung function and learn about the health effects associated with space radiation exposure	• Biologist • Epidemiologist