



TEAM DESCRIPTIONS

MISSION: Expedition Mars

Review each of these job descriptions to familiarize yourself with the type of work being conducted during the mission.

| | TEAM | DESCRIPTION | JOB TITLES |
|---|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 1 | COM <i>Communications</i> | <ul style="list-style-type: none"> • Provide communications support between astronauts and Mission Control • Discover and reprogram missing communication satellites | Communications Engineer CAPCOM |
| 2 | NAV <i>Navigation</i> | <ul style="list-style-type: none"> • Calculate and plot the course for the Spacecraft to reach and navigate to Mars from Phobos • Perform critical pre-flight checks to ensure the MTV is ready to fly | Pilot Commander |
| 3 | ROV <i>Rover</i> | <ul style="list-style-type: none"> • Build and test a remotely operated vehicle (R.O.V.) to search Mars for signs of water, installing critical equipment and components and retrieving data | Mechanical Engineer Electrical Engineer |
| 4 | Weather <i>Weather</i> | <ul style="list-style-type: none"> • Locate a missing satellite and track other objects in the Martian sky • Track and observe dust storms on the Mars surface. | Space Weather Forecaster Meteorologist |
| 5 | MED <i>Medical</i> | <ul style="list-style-type: none"> • Monitor the health of the crew with a focus on radiation • Run various diagnostics on different team members, blood pressure, monitoring radiation, and heart rate | Doctor Nurse |
| 6 | BIO <i>Biology</i> | <ul style="list-style-type: none"> • Testing soil to determine the presence or absences of microbes • Checking the spacecraft for signs of beneficial or harmful bacteria | Biologist |
| 7 | BOT <i>Robotics</i> | <ul style="list-style-type: none"> • Examine different Martian rocks through the use of robotic arms • Execute basic programs for unmanned rovers to gather their payloads | Computer Scientists Mechanical Engineer |
| 8 | LS <i>Life Support</i> | <ul style="list-style-type: none"> • Work hand in hand with their peers to ensure safe conditions for all team members on the spacecraft • Manage life support emergencies as they emerge | Systems Engineer Technical Specialist |
| 9 | GEO <i>Geology</i> | <ul style="list-style-type: none"> • Examine different Martian rocks for key elements and minerals • Research and map possible dig sites for important minerals | Geologist |