

Expedition Mars Student Jobs



Mission Teams

One member of each team will be in Mission Control for the first half of the mission while the other is assigned to the Mars Transport Vehicle (MTV). Half way through Expedition Mars, the group in Mission Control launches to the MTV and the MTV group returns to work in Mission Control.



Communication (COM)

Provide communications support between astronauts and Mission Control; Manage the distribution of assignments during an event and during some emergencies; Discover and reprogram mission communication satellites.

Navigation (NAV)

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.

Biology (BIO)

Test soil to determine if microbes are present; Check the Spacecraft for signs of beneficial or harmful bacteria.

Robotics (BOT)

Examine Martian rocks using robotic arms; Execute basic programs for unmanned rovers to gather their payloads.

Geology (GEO)

Examine different Martian rocks for key elements and minerals; Research and map possible dig sites in search of important minerals.

Life Support (LS)

Work hand in hand with peers to ensure safe conditions for all team members on the Spacecraft; Manage life support emergencies as they emerge.



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Medical (MED)

Monitor the health of the crew with a focus on radiation; Run various diagnostics on different team members' blood pressure, radiation levels, and heart rate.

Rover (ROV)

Build and test a remotely operated vehicle (R.O.V.) to search Mars for signs of water; Install critical equipment and components and retrieve data.

Weather (WEATHER)

Locate a missing satellite and track other objects in the Martian sky; Track and observe dust storms on the Mars surface.