

Expedition Mars Student Jobs



Teachers Information:

Use the information below as a guide for the students to complete the job application process.

Mission Teams:

Teamwork is very important. Without it, our mission may not be a success. Working as an astronaut, you must work to complete your tasks and communicate with your partner throughout the entire mission. We are depending on you!

Support Teams:

Communication Team (COM)

The COM Officers must be comfortable speaking and reading in front of others. These officers will be wearing headsets and must be able to multitask mission developments. Ensuring proper communication between Mission Control and the Mars Transport Team is an important part of this job. If needed, the COM Officers may need to help establish communication with various satellites, assign research tasks to other officers, and remain calm during possible emergencies.

Life Support Team (LS)

As with all missions, astronauts must have the basics of life within their reach at all times. This team will monitor oxygen, water, air pressure, humidity levels, and more to ensure a safe and comfortable living environment onboard the MTV. The LS Officers must make sure the MTV is functional for the entire mission. An officer who is careful when following task cards and pays attention to the smallest detail is required at this station.

Medical Team (MED)

The MED Team works diligently to ensure that all astronauts are kept healthy during the mission. All teams are monitored for radiation levels as high radiation levels over a long period of time can result in serious health concerns for our astronauts. Our MED Team will check for healthy vitals such as blood pressure and heart rate.

Navigation Team (NAV)

The NAV Officers will be responsible for calculating and managing the fuel supply for the Expedition Mars Mission. They will also follow the plotted course to Mars, test landing procedures, and work with the engineers to simplify parachute circuits. It is possible that they will wear headsets during the mission. NAV Officers should be comfortable with math.



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Science Teams:

Biology Team (BIO)

The BIO Officers will be working with Martian soil and performing tests to determine whether or not microbes could be found on Mars. If we find life on Mars, this will be the first team to know! This team will continue in looking at various life forms and check for beneficial or harmful bacteria. A careful reader will be a good fit for this team.

Geology Team (GEO)

Using a robotic arm, our GEO Officers will be uncovering and examining a recent delivery of Martian rocks. Based on their data, the team will be able to determine what these rocks are to learn how they formed. This helps us in decisions for water drilling and for further building. The GEO Officers will also be testing the hardness of rocks, again helping us identify the rocks and determine building resources and sites.

Space Weather Team (WEATHER)

The WEATHER Team needs careful readers. We require responsible team members that are comfortable with collecting data and are also capable of working under possible pressure. The WEATHER Team will be utilizing satellite data to view star fields around Mars. In addition to checking star fields for meteoroids and other celestial objects, these astronauts will be checking data for possible weather concerns on the Martian surface.

Engineering Teams:

Robotics Team (BOT)

The BOT Officers need to be very good communicators. They will communicate with their partners via headset and possibly texting in order to program the rover. The programming needs to be completed by the BOT Officers before the rover can be used, and it is vital to the success of the mission. If time allows, the BOT Officers may transfer Martian materials for further examination and test the capabilities of the robotic arm.

Rover Team (ROV)

The ROV Team will be responsible for putting together the remotely operated vehicle, also known as the ROV. The base of the ROV is ready to accept the critical components, but only in a specific sequence. This team must be able to communicate well, which involves listening and speaking. The team must also be to practice patience while waiting for possible system checks. The ROV Team will likely wear headsets during the mission.

