Crew Member Job Application



Crew Member Data

First Name and Last Name:

_____

Date:

_____

Welcome crew member!

Before your visit to Challenger Learning Center, you will need to apply for a specific job in the mission.

Read the chart on the following pages to learn more about all of the jobs needed to complete a mission.

In the “Am I Interested?” column, put a checkmark or an “x” if this job sounds exciting to you.

Then, rank your top 3 choices, and explain why you think you would be a good candidate for the job.

Earth Odyssey Mission Jobs

Team Name	Contribution to the Mission	Areas of Interest	Career Connections	Am I Interested?
Biology (BIO)	Explore how DNA mutations can produce hardier crops. Observe plant characteristics to determine their current condition. Experiment with DNA extraction. Collect and analyze climate data to investigate global processes	Gardening Botany Life simulation gaming Genetics	Biologist Botanist Geneticist Agriculture	
Robotics (BOT)	Use a robotic arm to compare prototype designs for future missions. Evaluate coded programs for bugs and corrects mistakes in coding. Use a 3D pen and calculations to select the best file to be printed. Successfully launch a remote-sensing satellite	Robotics/3D Printing Coding Math	Mechanical Engineer Software Engineer Computer Scientist Prototype Developer	
Geology (GEO)	Explore pollution in Earth's atmosphere	Hands-on Experiments	Geologist	

	using reflected light. Observe how soil behaves in orbit to determine conditions for plant growth. Measure erosion and monitor ocean temperature changes. Collect and analyze climate data to investigate global processes.	Geology Shoreline Environments Satellites	Environmental Scientist Geospatial Engineer	
Life Support (LS)	Monitor and report observations of the air and water systems to maintain Spacecraft Life Support. Ensure safe conditions for Spacecraft crew members by quickly responding to emergency situations.	Hands-on Activities Logic Puzzles Problem Solving and Troubleshooting	Industrial Engineer Systems Engineer Chemist	
Medical (MED)	Conduct medical tests to ensure Spacecraft crew health and safety. Explore dietary needs for crew working in weightless environments. Determine treatments for crew experiencing symptoms.	Hands-on Activities Health and Nutrition Math Problem Solving	Nurse or Doctor Emergency Medical Technician (EMT) Nutritionist Mental Health Specialist	
Navigation (NAV)	Maneuver the Spacecraft to undock from satellites and avoid debris. Calculate the velocity needed to maintain the satellite's orbit. Determine a landing site and orbit paths to collect requested satellite images. Successfully launch a	Gaming Logic Puzzles Math Maps	Pilot Aerospace Engineer Mathematician	

	remote-sensing satellite			
Communications (COM)	Use a microphone to deliver messages between Spacecraft and Mission Control. Relay critical information about emergencies. Manage a public social media account to inform the public about the mission. Ensure the health and safety of both crews.	Reading Social Media Leadership Communications and Public Relations	Communication Systems Engineer Information Technologist Social Media Manager	
Rover (ROV)	Troubleshoot and assemble the remotely operated vehicle. Determine which systems to add to the satellite based on an energy and cost budget. Successfully launch a remote-sensing satellite.	Hands-on Activities Problem Solving Computer Hardware Engineering and Coding	Computer Scientist Mechanical Engineer	
Weather (WX)	Use a laser to compare how materials behave in the atmosphere. Observe lightning or solar activity and create required warning messages. Explore air quality and activities on Earth that may affect it. Collect and analyze climate data to investigate global processes.	Hands-on Experiments Storms and Weather Tracking Using and Analyzing Maps and Charts	Meteorologist Astronomist Environmental or Planetary Scientist	

Now that you have read the job descriptions for Earth Odyssey, it is time to apply for the job you would like to do for this mission.

Think about your experiences and interests and fill out the chart below.

Job Ranking	Desired Job	What experiences have you had that would help you do this job?	What interests do you have that would make this job exciting for you?
1st Choice			
2nd Choice			
3rd Choice			