Space Foundation Discovery Center Field Trip ScholarTrips for the Lockheed Martin Space Education Center

Thanks to a generous gift from the Lockheed Martin Corporation, the Space Foundation is offering **Discover Scholarships (ScholarTrips)** to select schools to experience a field trip to the Lockheed Martin Space Education Center at the Space Foundation Discovery Center. These field trips include a session in either the **AGI Space Missions Simulation Laboratory** or the **Mars Robotics Laboratory.**

The Space Foundation Discovery Center, located in Colorado Springs, is the region's first and only space, science and technology center. A full complement of standards-based courses are offered for PreK-12 students which utilize the Discovery Center's El Pomar Space Gallery, Battelle Underwater Drove Laboratory, Lockheed Martin Space Education Center featuring the AGI Space Missions Simulation and Mars Robotics Laboratories, and the Northrop Grumman Science Center featuring Science On a Sphere® (SOS).

Each Discovery Center Field Trip course is calibrated for a specific grade-level standard, but may also be appropriate for a range of grades as noted in the course descriptions. All courses meet Colorado State academic standards.

Who is eligible for the Lockheed Martin Discover ScholarTrips:

Grades 5-12 from Title 1 schools in the State of Colorado, are welcome to apply.

What the ScholarTrip Provides:

The following field trips will be available:

1. An " AGI Space Mission" which consists of a 120-minute Space Education Specialist-led mission utilizing the AGI Space Simulation Laboratory. See below for available course offerings and descriptions.

   OR

2. A "Mars Robotics Encounter," which consists of a 120-minute Space Education Specialist-led, hands-on mission in a simulated Martian terrain, offering an opportunity for students to program robotic rovers to complete encounter objectives individually or in teams.

Each scholarship includes:

- Field Trip admission fee of $10 per student with a minimum of 15 and a maximum of 30 students.
- One free teacher/chaperone for every 15 students; additional adults/chaperones are $5.00 each. *Schools should keep adults to a minimum while adhering to their district policy.*
- A subsidy for bus costs up to **$200**. Following the field trip, each school will need to provide an invoice or recap report from the school's transportation department to the Space Foundation Discovery Center. **Transportation invoices must be submitted by February 1, 2020 or awarded subsidy will be forfeited.**

How to Apply:

Schools/Educators interested in applying for this scholarship opportunity must complete and submit the **Space Foundation Discovery Center Lockheed Martin Scholarship Application** form along with a three-paragraph essay describing how such an opportunity will benefit the educators' students.

Apply online at: www.discoverspace.org/education/scholarships

Scholarships are available to all grades 5-12 to experience a "Discover Space Missions Bravo" **"**Discover Mars Encounter 1" field trip; however, each scholarship class must consist of students from the same grade level as courses are tailored to be grade appropriate.

Each application must be approved by either the school principal and/or a district administrator. Educators agree to provide a pre/post field trip evaluation.

Schools/Educators/Students should be made aware that this generous opportunity has been made possible by the Lockheed Martin Corporation. Although not required, at the conclusion of the program we encourage each teacher to have their class write notes of thanks that the Space Foundation will forward on to Lockheed Martin.

Scholarship Timeline:

- Application opens: **Week of August 26, 2019**
- Application deadline: **5:00pm, Friday, September 20, 2019**
- Decision Notification: **Week of September 23, 2019**
- Awarded Field Trips conducted: **September 30 – December 13, 2019**

Please email all scholarship questions to SFDCReservations@SpaceFoundation.org

Lockheed Martin Discover ScholarTrip –
Field Trip Course Offerings and Descriptions

AGI Space Mission Courses

Utilizes the AGI Space Simulations Laboratory:

3D Printing

From replacements parts on the ISS to drones, 3D printing has become a popular method to create products. Students will use Tinkercad to create 3D models. This program will familiarize students with the basics of how 3D objects are designed before being sent to the printer.

Meets Colorado State Academic Standards for: K-12, Space Science, Arts and Humanities

Programming

Programming is a necessary skill for many job fields today. Students will learn about these skills while getting a hands-on experience programing various technologies.

Meets Colorado State Academic Standards for: K-12, Space Science, Arts and Humanities

Mars Robotics Encounter

The Mars Robotics Laboratory uses LEGO® EV3 equipment and MINDSTORMS® software to simulate lifelike Mars rover encounters:

Robotics Exploration Mission

Students engaging in this mission will work in teams to complete mission objectives by programming and operating LEGO® EV3 robots on our simulated Martian terrain. These missions will improve students' teamwork, communication and problem-solving skills as well as enhance math, technology and engineering proficiency***.***