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 attraction. A full complement of standards-based courses are offered for PreK-12 students called **Discovery Center Field Trips,** 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. A "Discover Space Missions Bravo," 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 "Discover Mars Encounter 1," 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 December 13, 2019 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 **Discover Space Flight Missions or Discover Mars Encounter 1** field trips; 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 April 1, 2019**
- Application deadline: **5:00pm, Friday, April 26, 2019**
- Decision Notification: **Week of April 29, 2019**
- Awarded Field Trips conducted: **September 3, 2019 – October 31, 2019**

Please email all scholarship questions to SFDCReservations@SpaceFoundation.org

Lockheed Martin Discover ScholarTrip –
Field Trip Course Offerings and Descriptions

Mission Bravo Courses

Utilize the AGI Space Simulations Laboratory:

Mission Bravo: 3D Printing

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

Meets Colorado State Academic Standards for: K-12, Space Science, Arts and Humanities
Appropriate for: Grade 5- 12

Mission Bravo: Programming

Programming is a necessary skill for many job fields today. Students will learn various coding skills and get a hands-on experience programing various technologies.

Meets Colorado State Academic Standards for: K-12, Space Science, Arts and Humanities
Appropriate for: Grade 5-8

Mars Robotics Encounter 1

The Mars Robotics Laboratory uses LEGO® NXT 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 programming and operating LEGO NXT robots on the world's largest education-purposed simulated Martian terrain. These missions will improve students' teamwork, communication and problem solving skills as well as enhance math, technology and engineering proficiency.

Appropriate for: Grades 5-12