



## **Space Foundation Discovery Center Field Trip Scholarships** **presented by Raytheon**

Thanks to a generous gift from the Raytheon Company, the Space Foundation is offering **Discover Scholarships (ScholarTrips)** to select schools to experience a field trip to the Space Foundation Discovery Center, including the extraordinary Science On a Sphere® (SOS).

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 courses are offered for PreK-12 students called **Discovery Center Field Trips**, which utilize the Discovery Center's El Pomar Space Gallery, Battelle Underwater Drone 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 eligibility requirements below.

### **Who is eligible for the Raytheon Discover ScholarTrips:**

Grades K -12 from schools in the following Colorado school districts are welcome to apply for the Raytheon Discover ScholarTrips:

- Widefield School District #3
- Fountain/Fort Carson School District #8
- Harrison School District #2.

### **What the ScholarTrip provides:**

A "Discovery Center Field Trip Voyage #2 - Consist of a 20-35 minute Science on a Sphere® presentation followed by a 40-60 minute hands-on activity or demonstration, plus a tour of the [El Pomar Space Gallery](#)

### **Each scholarship includes:**

- Field Trip admission fee of \$10 per student for a maximum of 40 students.
- One free adult/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 **\$100**. 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 May 1, 2019 or awarded subsidy will be forfeited.**



## How to apply:

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

Apply online at: [www.discoverspace.org/education/scholarships](http://www.discoverspace.org/education/scholarships)

ScholarTrips are available to all grades K -12 to experience a "Discovery Center Field Trip Voyage #2;" however, each scholarship class must consist of students from the same grade level as courses are tailored to be grade appropriate. Educators may apply for more than one scholarship for different classes/grade levels that they work with.

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 Raytheon Company. 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 Raytheon Company.

## Scholarship Timeline:

- Application opens: **Week of October 1, 2018**
- Application deadline: **5:00pm, Friday, October 19, 2018**
- Decision Notification: **Week of October 24, 2018**
- Awarded Field Trips conducted: **October 29, 2018 – January 31, 2019**

Please email all scholarship questions to [SFDCReservations@SpaceFoundation.org](mailto:SFDCReservations@SpaceFoundation.org)



## Raytheon Science Center ScholarTrip- Field Trip Descriptions

### **Parent/Offspring Characteristics**

Students explore that offspring have characteristics that are similar to, but not exactly like their parents' characteristics.

**Grade Levels:** Pre-K - Grade 2

**Class Content:** Life Science

### **Reasons for the Seasons**

Students will learn the basics of weather and what causes the seasons on Earth.

**Grade Levels:** Pre-K - Grade 2

**Class Content:** Earth Science, Space Science

### **Early Explorers: Mars**

**Grade Levels:** Pre-K - Grade 2

**Class Content:** Earth Science, Space Science, Arts and Humanities

### **Phases of the Moon**

The relative positions and motions of Earth, Moon, and Sun can be used to explain observable effects such as seasons, eclipses, and moon phases.

**Grade Levels:** Pre-K - Grade 2, Grade 3-5

**Class Content:** Earth Science, Space Science

### **Water Falls and GPM**

Learn about the importance of fresh water on the planet and how scientists track it from space. In addition, view the movie Water Falls created specifically to be shown on Science On a Sphere®

**Grade Levels:** Pre-K - Grade 2, Grade 3 - 5, Grade 6 - 8, Grade 9 - 12

**Class Content:** Earth Science, Space Science

### **Train Like an Astronaut**

Students will learn variety of lessons for this biology-focused topic, all having to do with what astronauts may experience in micro-gravity.

**Grade Levels:** Pre-K - Grade 2, Grade 3 - 5, Grade 6 - 8, Grade 9 – 12

**Class Content:** Life Science

### **Tour of the Solar System**

Learn about the Solar System and Earth's place in it including the latest information on discoveries and the future of exploration.

**Grade Levels:** Pre-K - Grade 2, Grade 3 - 5, Grade 6 - 8, Grade 9 - 12, Teacher – Adult

**Class Content:** Space Science

### **GPM-Global Precipitation Measurement Mission and Weather**

Weather is a result of complex interactions of Earth's atmosphere, land and water that are driven by energy from the sun, and can be predicted and described through complex models. Students will be given a design challenge of a weather instrument.



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**Grade Levels:** Grade 3 - 5, Grade 6 - 8, Grade 9 - 12

**Class Content:** Earth Science, Physical Science, Space Science

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### **Electric Earth**

Understand how electricity moves through wires to create circuits.

**Grade Levels:** Grade 3 – 5

**Class Content:** Earth Science

### **Rock Cycles**

Earth's surface changes constantly through a variety of processes and forces including the rock cycle.

**Grade Levels:** Grade 3 – 5

**Class Content:** Earth Science

### **Classifying Living Organisms**

Discover the characteristics of living organisms by the many adaptations and variations among species on Earth. Explore the possibility of life on other planets.

**Grade Levels:** Grade 3 - 5, Grade 6 - 8

**Class Content:** Life Science, Space Science

### **Plate Tectonics**

Major geologic events such as earthquakes, volcanic eruptions, mid-ocean ridges, and mountain formation are associated with plate boundaries and attributed to plate motions.

**Grade Levels:** Grade 6 - 8

**Class Content:** Earth Science

### **Squid Dissection**

Students will dissect a squid to better understand that environmental conditions affect the survival of individual organisms, populations, and species.

**Grade Levels:** Grade 6 - 8

**Class Content:** Life Science

### **Exoplanet Art Project**

Integrate art into this field trip while learning about the Kepler mission and discovering Earth-like worlds in our galaxy.

**Grade Levels:** Grade 3 - 5, Grade 6 - 8, Grade 9 - 12

**Class Content:** Earth Science, Space Science, Arts and Humanities

### **Moon Shot**

The history of the Universe, Solar System and Earth can be inferred from evidence left from past events. Students will design and engineer a spacecraft based on the LCROSS mission.

**Grade Levels:** Grade 6 - 8, Grade 9 - 12

**Class Content:** Space Science

### **Clone Zone**

Learn how organisms reproduce and transmit genetic information to offspring.

**Grade Levels:** Grade 6 - 8, Grade 9 - 12

**Class Content:** Life Science