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NEAR & FAR AID







PEDIATRIC CARE ALLIANCE

Elizabeth St. Pfriem Foundation

Ask us about funding assistance!

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Meet Our PROGRAMS TEAM



Maggie Knies
Educational
Programming Director



Michelle Lewis
Community Science Director





Kate Oliver STEM Programs Manager





Planetarium



Visit our upgraded planetarium for one of our exciting shows or an out-of-this-world tour.

Live Demonstrations



Excite wonder, introduce scientific concepts and reinforce classroom learning.

Learning Labs



A hands-on classroom experience for K-12 aligned to NGSS standards.

Traveling STEAM



Let us come to you! Many of our programs are available as off-site STEM classes.

Challenger



Fly a simulated mission with us and take on a new challenge!

Planning Your Visit



What to know in advance of your trip and how to prepare.

STEAM PROGRAMS OVERVIEW

In addition to our hands-on learning in our museum exhibits, we offer additional educational programming that can be tailored to fit your schedule.

Let us provide your class with an unforgettable learning experience that is engaging, relevant to your curriculum, and aligned to the NGSS standards.



PRE K AGES 2-5

\$250

Up to 20 students, \$12.50 per additional student. Maximum of 30 students per classroom. K-5

\$350

Up to 20 students, \$12.50 per additional student. Maximum of 30 students per classroom. 6-8

\$375

Up to 20 students, \$12.50 per additional student. Maximum of 30 students per classroom. 9-12

\$400

Up to 20 students, \$12.50 per additional student. Maximum of 30 students per classroom.

Chaperones (including teachers) are free in a 1:5 ratio for preschoolers and 1:10 ratio for K and up.

Other Programs

Fee

Additional Information

Exhibit Admission Add-On

\$8 per student

Does not include Planetarium show.

Learning Labs that include planetarium time

additional \$50 per class of 30 students

\$12 per adult chaperone

ADDITIONAL PROGRAM PRICING

PLANETARIUM SHOW

DIGITAL

\$300

Up to 30 students, \$10.00 per additional student. Maximum of 65 adults + children per show.

PLANETARIUM SHOW

LIVE

\$350

Up to 30 students, \$12.50 per additional student. Maximum of 65 adults + children per show.

LIVE **DEMONSTRATION**

LIVE

\$350

Up to 30 students, \$12.50 per additional student. Maximum of 65 adults + children per show.

EXHIBIT ADMISSION

HANDS-ON

Up to 160 students. \$8 when purchased with additional programming.

Chaperones (including teachers) are free in a 1:5 ratio for preschoolers and 1:10 ratio for K and up.

Available Discount Packages

PLANETARIUM SHOW

Book a planetarium show for up to 65 people with a flat rate! Digital Shows for \$600 or Live for \$750.

CHALLENGER PLANETARIUM ADD-ON

Book a planetarium show with your Challenger Mission and receive 20% off a digital show.

CHALLENGER MULTIPLE MISSION

Book two or more Challenger Missions and get a free digital show in the planetarium.







PLANETARIUM SHOWS

Visit our upgraded planetarium for one of our exciting shows or an out-of-this-world tour.

Digital Planetarium Shows

From constellations and space exploration to telescopes and dark matter, the Discovery Science Center's full-dome Henry B. duPont III Planetarium is an experience your students will enthusiastically embrace!

All planetarium shows are offered on a reserved basis for groups and must be booked in advance. Our Digital shows are pre-recorded.

DIGITAL SHOW	SUGGESTED GRADE LEVEL	RUNNING TIME
One World, One Sky: Big Bird's Adventure	K-1	26 min
We Are Aliens	K-3	25 min
Birth of Planet Earth	4+	25 min
Secret Lives of Stars	_	27 min
Dawn of the Space Age	_	41 min
Edge of Darkness	_	24 min
Flight Adventure	_	20 min
One Sky	_	30 min

Please contact us for assistance when selecting the right planetarium show for your group.

You can find descriptions of all shows at shudiscovery.org/planetarium.



DIGITAL SHOW	SUGGESTED GRADE LEVEL	RUNNING TIME
Stars of the Pharoahs	5+	35 min
Seeing: A Photo's Journey	_	27 min
From Earth to the Universe	_	31 min
Mars: The Ultimate Voyage	_	25 min
The Hot and Energetic Universe	_	30 min
The Sun, Our Living Star	6+	25 min
The Dark Matter Mystery	_	39 min
Europe to the Stars	_	31 min

Please contact us for assistance when selecting the right planetarium show for your group.

You can find descriptions of all shows at <u>shudiscovery.org/planetarium</u>.



Live Planetarium Shows

Live planetarium experiences give students the opportunity to explore in real time and take students on a journey anywhere in our known Universe. Students have the opportunity to explore and ask the expert questions in this interactive experience.

All live planetarium shows are offered on a reserved basis for groups and must be booked in advance.

LIVE SHOW	DESCRIPTION
Skies Tonight	Join our educators as they take you on a fantastic journey through the nighttime sky. Students are shown how to locate and identify the stars, planets, and constellations visible in the evening sky at the time of their visit. The Galaxy awaits!
Tour of the Solar System	Join our educators for a tour of Earth's nearest neighbors! From planets and dwarf planets to moons and more, you'll see some of the major bodies in our solar system and learn how our understanding of our place in the universe develops with each new discovery.
Mission to the Moons	Join our educators for our Mission to the Moons! We will explore lunar landscapes, take a closer look at different lunar phases and learn more about other moons located on other planets! You can actively engage with our experts and learn about Earth's neighbor. It is a stellar adventure you won't want to miss!
Custom	Join our experts for a special planetarium show created to support your learning goals! Shows must be booked a minimum of four weeks in advance, and the Director of the Henry B. duPont III Planetarium must be consulted a minimum of six weeks prior to your show. Pricing varies with content and production. Please call (203) 416-3149.

Please contact us for assistance when selecting the right planetarium show for your group.

You can find descriptions of all shows at shudiscovery.org/planetarium.

Excite wonder, introduce scientific concepts and reinforce classroom learning.



basic science concepts.

Learning objectives can be expanded and reinforced by pairing demonstrations with Learning Labs or a Planetarium Show for a full-day program.



LIVE DEMONSTRATION	DESCRIPTION
Electricity*	Learn about how electricity can be created. Discover the differences between static and current electricity. See electromagnetism at work and witness the power of lightning bolts and light bulbs illuminated without wires. You don't want to miss this shocking science experience!
Chemistry	Is it science or magic? You decide! In this demonstration, explore changes of state (solids to liquids, liquids to gases), mixtures, solutions, and chemical reactions. Chemistry is all around us—come check it out!
Engineering For Space*	It's hard enough to escape the Earth's gravitational pull and make it safely to space, but staying safe in space presents a whole new set of engineering challenges. Astronauts must be protected from extreme heat, cold, vacuum, fast-moving debris, and they need to be able to breathe! We'll learn about the amazing innovations of space gear in this exciting demo that showcases the fascinating engineering challenges and solutions for exploring the "final frontier."
Weather*	What is weather? What are the key factors that create all the different types of weather we experience? Explore the causes and effects of thunder and lightning, learn about what creates wind currents, and see a tornado demonstration. You won't want to miss this exploration of some of our wildest weather!



LIVE DEMONSTRATION	DESCRIPTION
The Laws of Motion*	The force is all around us the forces of motion that is! We'll explore all three laws of motion to test how things interact. See the power of inertia, learn how you can change acceleration by changing mass, and become a rocket scientist! You'll be strong with the knowledge of forces after this demo!
Light	How does our eye see images? How do we see color? What is the difference between subtractive and additive color mixing? Are there invisible colors that we can't see? And what does it mean when we say our sunglasses are polarized? Discover the answers to these questions and more in our illuminating demonstration about light.
Sound*	Listen to the interactions of sound waves. Learn about pitch, volume, and the transmission of sound. Watch as instruments, music boxes, and other devices demonstrate the concept of sound. See how machines translate sound from recordings to our ears.
Don't Try This At Home!*	Our widely acclaimed "big science" show! Get your students talking and keep the conversation going well after the show. All mad scientists are welcome as we combine common sense with scientific principles (and a few flashes and booms). Get inspired and take that curiosity to the next level.

Preschool Learning Labs

Preschool Learning Labs run 45 minutes in the classroom. These programs are designed to fit the learning style of preschool-aged children. Our objective is to bring out your preschoolers' natural curiosity while connecting to the Connecticut ELDS standards. To find more information about specific standards - please scan the QR code and click the lab you are most interested in booking!





A hands-on classroom experience for K-12 aligned to NGSS standards.

LEARNING LABS (FOCUS AREA)	DESCRIPTION
I Want to Be an Astronaut* (Space Science)	Students will learn about how astronauts live and work in space! We will discuss gravity and how rockets launch people & items into space. In this lab, students will make a twirly spacecraft & launch them in class! This lab pairs well with Big Bird Adventure Planetarium show!
Bubbles* (Chemistry)	Students will learn & make observations about bubbles! We will explore their shape, strength, color, and more as we blow bubbles! In this lab, students will make their own bubble blower and create art!
Party with the Stars (Space Science)	Students will learn all about what a star is, different types of stars, different types of constellations and explore the universe! In this lab, students will make a sticker craft and watch a live planetarium show!
Sink and Float* (Earth Science)	Students will learn all about buoyancy, specifically making observations on what materials float and what materials sink. In this lab, students will test their own boat to apply an understanding of why certain materials float. Challenge: by adding cargo, will your boat still float?

Grades K-2 Learning Labs

Learning Labs run 75 minutes in the classroom. Our labs are aligned with grades K-2 NGSS standards. To find more information about specific standards - please scan the QR code and click the lab you are most interested in booking!





LEARNING LABS (FOCUS AREA)	DESCRIPTION
Over the Moon* (Space Science)	Students will learn about the moon, different phases, the distance between the Earth and the moon, what is is made of and the different appearances the moon can have during seasons. In this lab, students will create a phases of the moon tool to help them identify the moon at night and more! This lab pairs well with our new Mission to the Moons planetarium show!
Water You Up To? (Earth Science)	Students will learn all about water, the different types of cause - sudden [floods, hurricanes, etc.] or gradual [river formations, rain, etc.], erosion, the problems it may cause and more! In this lab, students will create a sandcastle and try to avoid erosion by flooding waters! They will problem solve how to create structures to remain safe when flooding does occur. This lab pairs well with the Weather live demonstration!
Slimeology* (Chemistry)	Students will learn about non-Newtonian fluids, properties, fluidness and more in this slimeology lab! Students will be able to create oobleck and slime and see the difference between the two, focusing on the different states of matter. This lab pairs well with the Chemistry live demonstration!
Light Fantastic* (Physics)	This lab is all about light and how we see it, and don't see it! Witness what happens when colors mix, learn about forms of light, the light spectrum, prisms, filters, lenses and diffraction. Can your eyes be tricked? This lab pairs well with our Light live demonstration.



Grades K-2 Learning Labs



LEARNING LABS	DESCRIPTION
Motion Commotion* (Forces & Motion)	Students will learn about forces and how to utilize them to change the motion of objects around us. Students will use pushes and pulls when interacting with cars, ramps, balls and various other tools of learning. In this lab, students will fix a rollercoaster and identify what is needed to make rollercoasters work! This lab pairs well with the Laws of Motion live demonstration!
Solar System Explorers (Space Science)	Join us in the Planetarium as we take an out-of-the- world tour of the solar system with some surprising planetary landmarks on the way! Students will be making a take home model of our solar system once the Planetarium show is done!
Amazing Adaptations (Life Science)	Students will learn all about adaptations and what is necessary to survive, not only for humans but animals as well. We will discuss adaptations of different species and in this lab, students will design a new environment based on the animal and habitat chosen for them!
We're Only Human (Life Science)	Students will learn about animals and humans, what is necessary to survive, and focusing on the different types of systems in our bodies! In this lab, students will create skeletal Q-tips, work with a senses station and have a discussion of evolution!

Grades 3-5 Learning Labs

Learning Labs run 75 minutes in the classroom. Our labs are aligned with grades 3-5 NGSS standards. To find more information about specific standards - please scan the QR code and click the lab you are most interested in booking!





LEARNING LABS (FOCUS AREA)	DESCRIPTION
Natural Disasters* (Earth Science)	Students will learn all about plate tectonics, continents, Pangea and focus on earthquake and volcano formations. In this lab, students will plan an evacuation route and what their bag would hold if an evacuation ever did take place! This lab pairs well with the Weather live demonstration and the planetarium show The Birth of Planet Earth!
Our Home in Space (Space Science)	Students will join us in the planetarium for an exciting journey from Earth to the far reaches of other planets, where you'll discover the wonders of our universe. Witness the Earth as it orbits around the Sun, and explore the factors that create observable phenomena in space, including night and day, as well as the passing of months and years.
Basically Bots* (Robotics & Coding)	Students will learn to code with us with this introductory coding class. Students will have the opportunity to program their own robots and build their own obstacle course for their robot to navigate.
Great Rocket Challenge (Interdisciplinary)	Students compete in a design challenge to bid on a NASA rocket contract, complete with test launch! Plan, budget, build, and test a rocket to see which team has what it takes to win the contract. Students work cooperatively in teams to use math, engineering, and interpersonal skills. This pairs well with the planetarium show Mars: The Ultimate Voyage.



Grades 3-5 Learning Labs



LEARNING LABS (FOCUS AREA)	DESCRIPTION
Chemistry Matters* (Chemistry)	Students will learn about states of matter, conservation of mass, and physical and chemical changes. We will learn how to identify and classify materials and even test out some Non-Newtonian fluids to see how they defy classification! In this lab, students will test out different slime recipes and explore how different ingredients give different results. This lab pairs well with our Chemistry live demonstration!
The Engineered Drop (Engineering)	Students will learn how to design a solution for a problem, focusing on cause and effect relationships, understand how energy can be transferred and predicting the outcome of their creations! They will create different barriers to protect their water balloon from breaking after being tossed off the top of our building!
Coasters in Motion* (Forces & Motion)	Students will learn about forces and motion and how Newton's Laws of Motion work in the everyday world. In this lab, students will design and build their own prototype for their rollercoaster while doing a series of challenges to test your design. This lab pairs well with the Laws of Motion live demonstration!
Electrical Circuits* (Physics)	Students will learn all about electricity, where it comes from, how it works and what it is. In this lab, students will complete a circuit diagram and compete in a challenge where students need to find a way to make complex circuits and who can turn them on the fastest. This lab pairs well with the Electricity live demonstration!

Grades 6-8 Learning Labs

Learning Labs run 75 minutes in the classroom. Our labs are aligned with grades 6-8 NGSS standards. To find more information about specific standards - please scan the QR code and click the lab you are most interested in booking!





LEARNING LABS (FOCUS AREA)	DESCRIPTION
Engineering for Earth (Engineering)	Students will learn about solar panels, water consumption, and wind energy. Earth's resources and the negative effects of human consumptions. In this lab, we will focus on our weaknesses and devise a strategy to help our planet & build a prototype water filtration system.
Gene Lab* (Life Science)	Students will learn about DNA and the genetic code that determines our features. In this lab, students will have the opportunity to join us on the Dragon Reserve and Conservation Operation (DRACO) to breed their own dragon! Students will learn the differences between genotype and phenotype to create highly adapted new generations!
Molecule Mystery (Chemistry)	Students will learn about the motion and stability of the tiniest particles on Earth. In this lab, students will investigate how molecules will react with one another and theorize what happens if they are to introduce a chemical reaction.
Digging Through Time* (Earth Science)	Students will be able to identify the geosphere, look at the different layers of Earth & the strata of the planet. In this lab, students will be able to recognize timelines and make predictions as to when events happened and where they are now. This lab pairs well with the Planetarium show The Birth of Planet Earth!



Grades 6-8 Learning Labs



LEARNING LABS (FOCUS AREA)	DESCRIPTION
Comparative Anatomy (Life Science)	Students will be able to explore different species and their anatomy as they study the evidence of biological evolution. In this lab, students will see common examples of ancestry.
The Beginning of Brains* (Life Science)	Students will focus on exploring sensory receptors, how our brain sends signals to different parts of our bodies and how memories form. In this lab, students will be able to solve a brain puzzle, test their reflexes, explore different brain models and guess which brain belongs to what animal!
Challenger Center- Space Simulation Mission (Space Science)	Discovery Science Center's Challenger Learning Center is a mock space station and mission control simulation environment that promotes awareness of how technologies make space exploration possible. The simulation creates a cooperative learning atmosphere where students have opportunity to test out a STEM career underscored by teamwork, communication, problem-solving, and decision- making. This pairs well with the planetarium show Mars: The Ultimate Voyage! Learn more on page 23.

High School Learning Labs

Learning Labs run 75 minutes in the classroom. Our labs are designed to support Next Generation Science Standard cross-cutting concepts and content. Each lab is hands—on and utilizes science and engineering skills and practices.



High School Programs are also available as Professional Development classes for Educators.

LEARNING LABS (FOCUS AREA)	DESCRIPTION	
DNA Profiling (Chemistry)	Students will learn about DNA profiling and how crucial it is for criminal cases. In this lab, students will focus on the biology and chemistry of DNA profiling and experiment with gel electrophoresis to narrow down suspects!	
Cosmic Origins (Space Science)	Students will be able to learn all about The Big Bang Theory, the galaxy and how Earth became a planet, focusing on the different layers in the Earth and the geosphere. In this lab, students will look at the brightness and distance of stars and the importance of Earth's layers. This lab pairs well with the planetarium show A Cosmic Journey!	
Our team will work with you to create programming for your students that is engaging, interactive and meets your required criteria and learning standards. Please contact us if you are looking for custom high school programming.		





Science on a SPHERE

Many of our learning labs include a brief presentation using our Science on a Sphere (SOS). SOS enables an immersive exploration of the Earth, our solar system, and beyond, animated on a five-foot diameter globe. With over 800 datasets and playlists, topics can be customized for specific lessons. Contact us for more information and current options.

Save on bus fees and travel time — we bring the science to you!

The Discovery Science Center's education staff will come to your school with engaging hands-on programs. All you need to do is provide the audience and the space, and we'll do the rest!

For even more excitement, pair one of our demonstrations with a learning lab and make the most out of our visit!

Additional travel fees may apply.

PRESCHOOL PROGRAMS

45 Minute Programs Starting from \$300 In-state - minimum fee for up to 18 students, add \$12.50/student up to a maximum of 22. Classes in excess of 22 require an additional instructor and additional minimum fee. Travel fees apply.

GRADES K-8

75 Minute Programs Starting from \$400 In-state - minimum fee for up to 20 students, add \$12.50/student up to a maximum of 30 students. Classes in excess of 30 require an additional instructor and additional minimum fee. Travel fees apply.

LIVE DEMONSTRATIONS

Traveling
Demonstrations
(45 minutes)
Starting from \$400

Up to 30 students, \$12.50/student. \$200 fee for each additional same demonstration which occurs at the same location on the same day. Groups of 60 or more students will have a flat fee of \$700. Travel fees apply.

Programs that are available for traveling science outreach programs are indicated with an asterisk (*).



Let us come to you!

Many of our programs

are available as off-site

STEM classes.

technologies make space exploration possible. The simulation creates a cooperative learning atmosphere where students have opportunity to test out a STEM career underscored by teamwork, communication, problem-solving, and decision-making. to achieve a unique, cooperative learning atmosphere.

Challenger Mission educators are trained to lead realistic, communication-based simulation experiences

Discovery Science Center's Challenger Learning Center

is a mock space station and mission control simulation

environment that promotes awareness of how

ENTER BRIDGEPORT, CT

2 HOUR MISSION

Start your mission prep in school and arrive ready to go for your mission! All participants must complete Challenger Training prior to Mission and arrive with completed crew manifest. Chaperones (including teachers) are free in a 1:10 ratio.

Additional chaperones are \$12.00 each, maximum of 6 chaperones per mission. \$700.00 flat rate for 15- 28 students.







AVAILABLE MISSIONS	SUGGESTED GRADE LEVEL	DESCRIPTION
EXPEDITION MARS [™]	5+	The year is 2076. A handful of facilities have been established on Mars, including a greenhouse, a mobile geological survey base, and a centralized research habitat. The primary human habitat is not on Mars, but on one of its moons, Phobos. A large shuttle regularly ferries astronauts. However, when crew members discover an imminent threat to their MTV and the Martian surface facilities, they must act quickly to save their stations, their research, and their lives
LUNAR QUEST [™]	7+	NASA recently identified areas on the Moon that may support a sustainable long-term habitat for humans. In order to confirm this finding, NASA issued a directive for astronauts to return to the Moon! In this Mission, a team of astronauts must board a spacecraft and launch to the Moon, while a team of scientists and engineers on Earth command and assist the astronauts in Mission Control. However, when the spacecraft crew begins to receive troubling readings from below the surface, the two teams must work together and make critical decisions to turn a possible catastrophe into NASA's finest hour!

Book two same-day missions, get a free digital planetarium show!

View Challenger discount packages on page 3.



Mission L.E.O.

Mission L.E.O is an immersive, high school program that has participants simulate what it might be like to take part in the exploration of an exoplanet. Students will work together in teams to successfully launch and deliver materials to Planet X. They will explore the terrain and take soil samples. When they return safely back to Earth, they will then analyze the samples to determine the best location to build a habitat.

Professional Development

Discovery educators are equipped in delivering professional developments to make learning engaging, immersive, hands on, & forward with a focus on cross cutting concepts to embed STEM in all focus areas of learning. Discovery offers team building professional developments as well! Contact mknies@shudiscovery.org for more information about different types of professional developments offered!

Overnights

Science Sleepovers! Bring your group to spend the night exploring, learning, and having fun at Discovery!

Available for kindergarten and up and are open to any group of 20 or more children (with parents or chaperones). Overnights include a planetarium show, movie, and food (pizza dinner, late-night snack, and a continental breakfast are included). Upgraded learning experiences are available!

Mighty STEM Girls

4,6,and 8 week packages with lessons for all students on groundbreaking and trailblazing women in STEM. Grades 3-5



Scouts

We are happy to provide STEAM programs that support many Badge, Pin, and Belt Loop requirements. In addition to fun experiences designed to engage your group in hands-on learning! There is a minimum of 8 scouts required to book a program.

Reach out for more information!

Email reservations at reservations@shudiscovery.org

Planning YOUR VISIT

Our educators and Science Center staff are ready to provide you and your students with the very best educational enrichment programs available.

Multiple programs, booked for the same group and visit, are often available at a discounted rate. Many group leaders design a custom day by selecting from the wide variety of science offerings available. Plan now so that your group may join the thousands of students participating in Science Center programs this year.

Booking is as easy as 1-2-3!

Step 1 — Reservation Request

Use the QR code or email reservations@shudiscovery.org to request a Reservation Request Form. Fill out and submit the reservation request form with the details of your trip.

Step 2 — Booking Notice

When your reservation has been created by our team you will receive a confirmation email with your itinerary, contract, and invoice.

Step 3 — Contract & Payment

A signed contract is required to finalize your booking. Full payment is due prior to your visit. See contract for details. If you have any questions about our programs, please contact us at reservations@shudiscovery.org or call us at 203-416-3558.

Reservations are on a first-come, first-served basis and are subject to availability.

We look forward to seeing you at Discovery Science Center and Planetarium!





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SCAN ME



@DISCOVERYBPT



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RESERVATIONS@SHUDISCOVERY.ORG

