

SUMMER 2024

K-12

Summer Camps

High School Classes

STEM Research Experience

Teen Internships



Science Discovery

UNIVERSITY

RADO BOULDER

ONLINE REGISTRATION OPENS JANUARY 10!

Discover, Create, Explore: THE **ULTIMATE STEM ADVENTURE** AWAITS

Calling all future scientists, engineers, and creatives! Get ready to embark on an explorative MRXUQH\ ZLWK & 8 6FLHQFH 'LVF sensational summer camps and high school classes. Fill your summer with hands-on STEM experiences that are sure to ignite your passion for learning. At Science Discovery, we believe in the power of creativity, questions, and the joy of discovery.

Share this digital summer catalog with the K-12 science enthusiasts in your life and start planning your summer right away.

ONLINE REGISTRATION OPENS

Note: This catalog contains summer 2024 schedules and basic program descriptions. For complete details on Science Discovery policies (including cancellation, transfer, and medication administration policies), frequently asked questions, scholarship information and more, please visit:

CAMPS

for **JUNIOR SCIENTISTS**

June 3-7	'LJLLQ · 'LQRV 8S DQG \$WRP	9am-4pm	\$575
June 10-14	:KDW · V %XJLLQ · <RX 1HZWRQ	9am-4pm	\$575
June 17-18	Nature Explorers (Note: This is a 2-day camp.)	9am-4pm	\$235
June 20-21			

NEW! ADVENTURE TIME

July 15-19; 9am-12pm

July 29-August 2; 9am-12pm

\$285

Location: Science Discovery

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time! Grab your friends and sense of adventure
because this is going to be one camp you wont
want to miss! Each day we will embark on a
new journey investiagting some of the worlds
biggest phenomenons. Together we will take a
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magical worlds, other galaxies; and much more!

SCIENCE MAGIC

June 10-14; 9am-12pm

July 15-19; 1-4pm

\$285

Location: Science Discovery

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June 10-14; 1-4pm

July 29-August 2; 1-4pm

\$315

Location: Science Discovery

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Join us to explore the fascinating world of
robots with some of our favorite robotic friends,
including Cubelets, Ozobots, and Dot and Dash.

Through a combination of "unplugged," coding,

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create robots that make lights, sounds,

drawings, and movements. Using Cubelets,

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colorful mazes for Ozobots to navigate, and

learn some coding basics as we program Dash

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design our own robot to help the Earth and use

recycled materials to build it!

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June 3-7; 1-4pm

July 29-August 2; 1-4pm

\$315

Location: Science Discovery

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June 10-14; 9am-12pm

July 15-19; 9am-12pm

\$315

Location: Science Discovery

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engineering and programming skills as we
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robots to complete a series of different tasks.
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Challenge Masterpiece-themed mats from 2023
as our base to complete challenges and
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different scenarios and learn how to control
motors and use sensors. After mastering the
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GHVLJQ FKDOOHQJHV :H .OO OHDUQ DERXW DQG DSSO\
physical science and math principles to design
and maneuver our robots. The best part: no prior
programming or robotics experience is required!

WORLD DEH micro:bit! This little board can do it all, from driving motors and
HONORSHXW world around it to executing and interacting with the programs you can
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for a class, we will learn the basics of how to write simple programs with easy
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take those skills and use our building chops to take our inventions from the computer
screen into the real world. Make your own invention that solves problems for you and
your community. Want a machine that waters your plants for you? A custom game? A
device that tells you the temperature outside? These and many more inventions are
possible starting with the micro:bit – come learn with us!

HIGH SCHOOL CLASSES

AEROSPACE

June 10-14; 9:30am-3pm
June 24-28; 9:30am-3pm
July 8-12; 9:30am-3pm
July 22-26; 9:30am-3pm
\$625
Location: Fleming Building

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of the leaders in aerospace technologies in
learning about what it takes to be an aerospace
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from the Laboratory for Atmospheric and Space
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see one of only a few university-based Mission
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undergraduate and graduate students perform
mission operations for NASA satellites totaling
PRUH WKDQ ELOOLRQ LQ Y
get a chance to work on gliders, airfoils, rocket
engines, and testing composites for aircraft
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applications of aerospace, such as wind
turbines and parachutes.

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Dates to be determined; 9:30am-3pm
\$625
Location: JSCBB

This class is perfect for students who are excited about biological sciences and want to learn about meaningful career paths outside of clinical medicine. Over the course of one week, students will be introduced to various areas of biotechnology, listen to guest speakers, explore various career options, participate in hands-on labs and on experiments. We will explore the history of biotechnology and how it is used today in medicine, agriculture, food safety, and renewable energy. Students in this course can expect to learn about lab skills, the VFLHQWLÀF SURFHVV DQG KRZ WR UH DG VFLHQWLÀF papers. Students will have hands-on practice with electrophoresis and DNA transformation and discuss cutting-edge areas of research, including biofuels and synthetic biology as they learn about how these impact the future of biotechnology. This class offers a great opportunity to learn about cutting-edge research going on in and around CU Boulder!

FORENSICS

Dates to be determined; 9:30am-3pm
\$625
Location: JSCBB

ADDITIONAL HIGH SCHOOL PROGRAMS

STEM RESEARCH EXPERIENCE

JUNE 7 - JULY 26, 2024

In this 6-week program, CU Boulder and CU Anschutz faculty and graduate students act as mentors to highly motivated high school students interested in gaining real world laboratory experience.

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- How to become a research scientist
- The process by which research is conducted
- How to probe data for answers to important questions

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CU ANSCHUTZ MEDICAL CAMPUS GRADES 7-12

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Grades 7-9
June 17-21; 9am-4pm
\$625
Location: CU Anschutz

We all depend on the letters D-N-A for life, but what is really spelled out by our genetic code? How do cells use DNA and why do scientists study it? During this camp, we will inspect the structure of DNA, investigate its function, and examine variations in its code. Activities will include fun hands-on experiments and interactions with Anschutz Medical Campus scientists. No spelling tests! Join us for an exciting exploration of a molecule essential for life!

ANIMAL SCIENCE ADVENTURES + POISONS TO POTIONS

Grades 7-9
June 10-14; 9am-4pm
\$625
Location: CU Anschutz

Animal Science Adventures explores topics such as animal behavior, care of lab animals, and hands on practice of techniques used by scientists and animal care technicians. We will conduct experiments with pill bugs, learn about careers involving laboratory animals, and tour the Anschutz Medical Campus animal facility.

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can help us. We will conduct experiments using
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and practice pharmaceutical compounding. We will also be introduced to careers in toxicology and pharmacology, the sciences behind poisons and potions. Come on this adventure to learn how animals contribute to modern medicine and to increase your knowledge about chemicals we encounter every day!