



SUMMER SCIENCE BLAST

2018

SAINT LOUIS science center

SAINT LOUIS SCIENCE CENTER

The central graphic is a large, colorful emblem. It features a red background with a green and yellow sunburst design. The text "SUMMER SCIENCE BLAST" is written in large, bold, red and yellow letters. Below this, the year "2018" is displayed in a yellow banner. At the bottom, the Saint Louis Science Center logo and name are visible.



Thank you for choosing the Saint Louis Science Center for your child's summer camp experience! The summer months are a key time to ensure your child's academic growth while having fun, and that is just what the Science Center's camps are all about – creating exciting, purposeful and unique educational experiences in which campers develop cooperative scientific skills and a passion for STEM.

Throughout the summer, our highly trained camp staff work directly with campers to explore and discover how science effects our everyday life in safe and meaningful ways. The Saint Louis Science Center's mission is to "ignite and sustain life-long science and technology learning," and whether your child is gearing up for a career in science or simply looking to have some fun, we know they will find that spark of interest at the Science Center.

Sincerely,

*Bert Vescolani
President & CEO*



REGISTRATION INFORMATION

Registrations may be submitted by mail, fax or online at: slsc.org/summer-camps. Online registrations will take priority. Mailed and faxed registrations will be processed in the order they are received. No drop-offs or walk-ins will be accepted.

Summer Science Blast
5050 Oakland Ave.
St. Louis, MO 63110

Fax: 314.535.0104

Registration opens February 5, 2018 for Science Center Members. Public registration opens March 5, 2018. Only Plus and MAX level Science Center Members receive discounts on eligible camps.

Campers must be the appropriate age level for each selected camp by June 4, 2018

Extended Day

This option is available for campers who need supervision outside of class time. Supervision is available 7:30am – 9am and 4pm – 6pm. The fee is \$45/week, per supervised period. Pre-registration is required 10 working days prior to each camp week.

20% OFF Camps for Science Center Members PLUS Early Registration

All Plus and MAX level Science Center Members save 20% on all summer camps. Early camp registration is available for Plus and MAX level Members on February 5. Membership must be valid at the time of registration.

For more information about becoming a member, what level membership you have, or to upgrade to the Plus or MAX level call 314.289.4491 (toll-free 800.456.SLSC x4491).

Scholarships

A limited number of need-based partial scholarships are available. Your completed registration form must be submitted with the scholarship application. The scholarship application is available online at slsc.org or by calling 314.289.4439 (toll free 800.456.SLSC x 4439).

The deadline for scholarship applications is April 2, 2018 at 5pm. Applications received after the deadline will not be considered. No exceptions will be made. Final decisions will be made by April 20, 2018. All scholarship recipients will be required to pay a portion of the cost of their summer camp registration. Payment is due 3 weeks prior to the camp session. Payments not received on time will result in forfeiture of the scholarship.

Questions?

Contact the Science Center's Public Programs Department at 314.289.4439 (toll-free 800.456.SLSC x4439) During camp hours, you will be able to reach the Summer Camp Supervisor by phone. That phone number will be given to all parents/guardians at the open house.



2018 SCHEDULE

Half Day & Full Day	Regular Price	Members (Plus or MAX level)
Half Day	\$150	\$120
Full Day	\$300	\$240

AGES 4 – 5

Date	Morning Session (9am – 12pm)	Afternoon Session (1pm – 4pm)
June 4 – 8	I Can Dig It!	Eco-Explorers
June 11 – 15	Science SmARTS	Energy Excitement NEW!
June 18 – 22	Dino Discovery	Science Makes Sense
June 25 – 29	Simply Science	There's No Place Like Space
July 2 – 6	NO CAMP	NO CAMP
July 9 – 13	Science Makes Sense	Dino Discovery
July 16 – 20	There's No Place Like Space	Simply Science
July 23 – 27	Energy Excitement NEW!	Science SmARTS
July 30 – Aug. 3	Eco-Explorers	I Can Dig It!
Aug. 6 – Aug. 10	There's No Place Like Space	Simply Science

AGES 6 – 7

Date	Morning Session (9am – 12pm)	Afternoon Session (1pm – 4pm)
June 4 – 8	Design & Demolish NEW!	Gears & Gadgets *\$175/\$140
June 11 – 15	RAWWR! Dinosaur	GROW!
June 18 – 22	Bugs!	Icky Sticky Science *\$175/\$140
June 25 – 29	Hungry Scientist	Jr. Astronaut Academy
July 2 – 6	NO CAMP	NO CAMP
July 9 – 13	GROW!	RAWWR! Dinosaur
July 16 – 20	Jr. Astronaut Academy	Hungry Scientist
July 23 – 27	Icky Sticky Science *\$175/\$140	Bugs!
July 30 – Aug. 3	Gears & Gadgets *\$175/\$140	Design & Demolish NEW!
Aug. 6 – Aug. 10	Jr. Astronaut Academy	Icky Sticky Science *\$175/\$140

AGES 8 – 9

Date	Full Day Programs (9am – 4pm)
June 4 – 8	Secret Agent Science
June 11 – 15	The Science of Superpowers! NEW!
June 18 – 22	Robots Jr. *\$325/\$260
June 25 – 29	Positive Energy NEW!
July 2 – 6	NO CAMP
July 9 – 13	Shoot for the Moon NEW!
July 16 – 20	Robots Jr. *\$325/\$260
July 23 – 27	Machine Masterminds *\$325/\$260 NEW!
July 30 – Aug. 3	DO Try This At Home *\$375/\$300 NEW!

AGES 10 – 12

Date	Full Day Programs (9am – 4pm)
June 4 – 8	Electrify & Energize
June 11 – 15	Robots Rewired *\$325/\$260
June 18 – 22	Lunar Landers NEW!
June 25 – 29	Zombie Survival Camp NEW!
July 2 – 6	NO CAMP
July 9 – 13	Robots Rewired *\$325/\$260
July 16 – 20	Science LIVE! *\$325/\$260
July 23 – 27	Level Up *\$400/\$320 NEW!
July 30 – Aug. 3	Mars or Bust *\$400/\$320

AGES 13 – 16

Date	Full Day Programs (9am – 4pm)
June 4 – 8	Flight Academy **\$425/\$340
June 11 – 15	Design It, Build It!
July 9 – 13	Flight Academy **\$425/\$340
July 16 – 20	Veterinary Voyage *\$325/\$260 NEW!

20% OFF Camps For Plus & MAX Level Science Center Members PLUS Early Registration

Call Membership Services at 314.289.4491 for information on membership.

Call our camp coordinators at 314.289.4439 for questions about camp.

- * These sessions are premium camps with special schedules, locations and regular-price/Member pricing. See the course descriptions for more information on these programs.
- ** These programs are offered only as half day sessions Monday – Thursday from 9am – 12pm, with an all day session on Friday.

AGES 4 – 5

Dino Discovery

Prepare for a prehistoric adventure! Explore ancient worlds and unearth what it takes to be a paleontologist as we learn about fossils and dinosaurs. From mini excavations to exploring real dinosaur bones, we'll dig into the past to find out all about those great lizards that once walked the Earth.

Eco-Explorers

Reveal the science in nature! Grow an ecosystem in a jar, find patterns in nature, and start your own garden. We will also learn how other cultures use natural materials to create practical and beautiful treasures.

I Can Dig It!

What's under your feet? Hidden gems, ancient artifacts, prehistoric fossils, and creepy crawly bugs are all waiting to be uncovered. Learn the scientific secrets behind entomology, archaeology, and paleontology; get some dirt under your fingernails in the process. Use science to decode clues and piece together the puzzles of the past.

Science Makes Sense

Our senses are amazing! Learn how we connect with our world as we play with our five senses. We'll trick our eyes with optical illusions, see how well we can stand on one foot, and put our noses to the test. We'll see how our senses, brain, and body work together! Get a first-hand look at what life is like when one of our senses is impaired and how our bodies help us to adapt.

Science SmARTS

Time to get messy while making masterpieces! Grow a chia pet, make paper, and imagine alien landscapes. Plan to use your creativity. Investigate the science behind pigments, perspective, and paper. Make your own works of art from outrageous science experiments. You can't be smart without art!

Energy Excitement **NEW!**

Get energized! Learn about different forms of creating and harnessing energy, and how to conserve this resource. Explore thermal, wind, solar, and kinetic energy through hands-on experiments and demonstrations.

Simply Science

Get ready to have fun with science! Curious campers will learn all about the different areas of science through fun, hands-on activities. Witness amazing chemical changes that create bubbles, slime, and strange color changing liquids. We'll also develop our scientific skills as we make observations, measure ingredients, and try to guess what happens next!

There's No Place Like Space

3....2....1....Blast Off! Get ready to rocket into orbit and explore things that are out of this world. Learn why our Sun is so important. Discover the planets of the solar system and what makes each one special. Visit the James S. McDonnell Planetarium for a special show. And maybe, if the timing is right, we can even observe the Moon!

AGES 6 – 7

Bugs!

They creep, crawl, and fly, but are all bugs pests? Join us as we explore all the delicate critters we call bugs! Examine creepy crawlers, spindly spiders, and beautiful butterflies. What's the difference between insects and arachnids? What are the stages of metamorphosis? Once we dig in, you'll be buzzing about bugs!

Design & Demolish **NEW!**

Create a bridge and watch it crumble. Build a tower and watch it topple. Learn the art and science behind constructing buildings and other man-made wonders. Then, we'll test our structures to see how much strain they can handle. It's controlled destruction, for science!

Gears & Gadgets

Gears that spin, gadgets that twirl – don't machines make a wonderful world? Become an engineer, maker, and tinkerer by using simple machines to develop and design a myriad of technological applications. Collaborate and challenge your fellow classmates to build and manipulate marvelous mechanisms.

Cost: \$175/\$140 Members*

GROW!

Let's dig deeper as we look at the science of one of the most important elements of our daily lives: food. Where does it come from? How does it grow? How far does it travel? You'll find the answers to all these questions and more through hands-on activities incorporating creative projects, games, and nature explorations.

Hungry Scientist

Even a scientist has to eat, but good scientists play with their food! We'll explore the science that goes on in your kitchen. Is there chemistry in baking a cake? How does milk turn into butter? Is there a way to make instant ice cream? From sugar crystals to chemical reactions, discover how tasty science can be!

**Plus & MAX level Science Center Members*

Icky Sticky Science

Let's get messy as we investigate physical changes, chemical changes, and phase changes that will make things pop and ooze. From making slime to investigating strange behaviors of non-Newtonian fluids, you'll find science can be fun, and messy!

Cost: \$175/\$140 Members*

Jr. Astronaut Academy

Get ready to blast off as we learn what it takes to be an astronaut and explore life in outer space. We'll do activities about rockets, the planets of the solar system, the stars that twinkle above, and make a special visit to the James S. McDonnell Planetarium!

RAWWR! Dinosaur

Attention dinosaur lovers! Become a junior paleontologist as we learn about these amazing prehistoric creatures. Dig for fossils with a real scientist and learn how to identify different types of dinosaurs. Through fun, hands-on activities, learn how dinosaurs ruled the Earth millions of years ago.

AGES 8 – 9

DO Try This At Home NEW!

Get ready to perform exclusive, elusive and engrossing experiments! We'll share the tricks of the trade so you can design and perform your own experiments. Beginning with simple safety procedures, this week will slowly build as you experiment with real chemistry!

Cost: \$375/\$300 Members*

Shoot for the Moon NEW!

We have a lift off...to the Moon! Learn about the teamwork it takes to send an astronaut to the Moon. Through hands-on activities, you'll explore the importance this celestial body has on Earth and what our lives would be like without it. You'll also get to explore the special exhibit about the Moon landing, *Destination Moon: The Apollo 11 Mission!*

Machine Masterminds NEW!

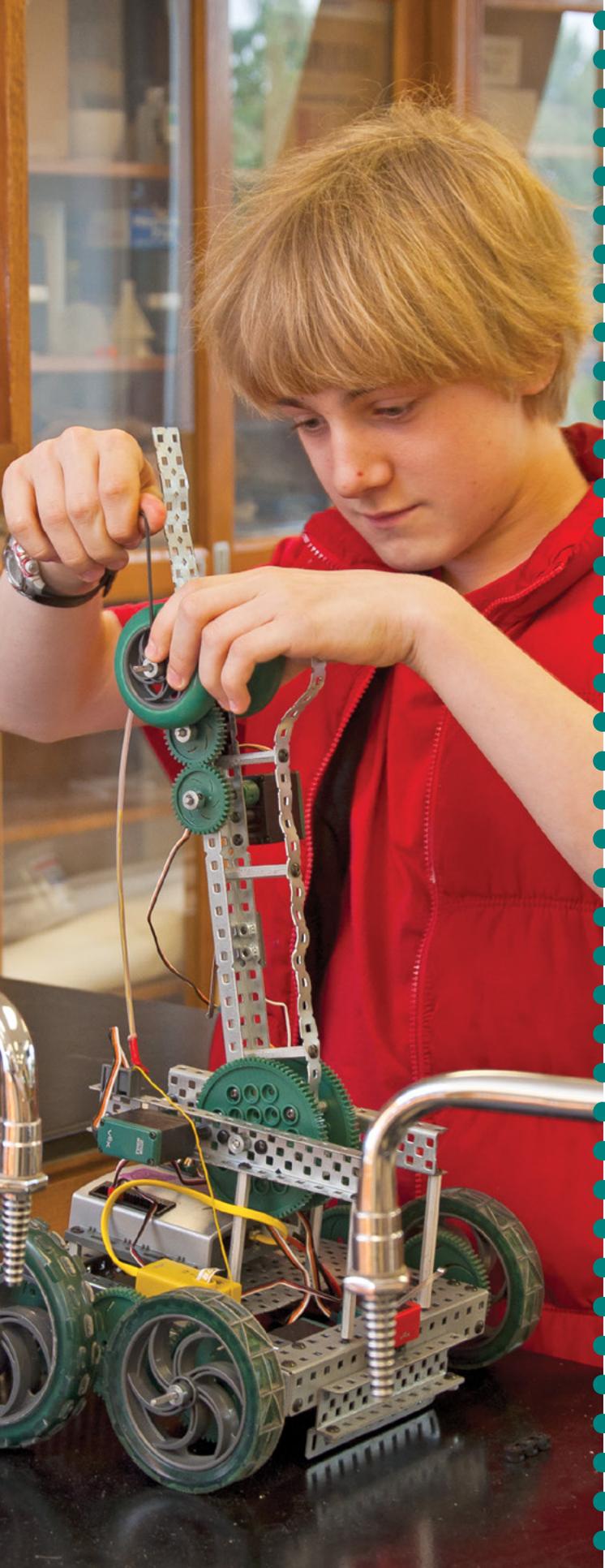
Become a mastermind of machines by using electric motors, physics, and engineering! Collaborate, create, and build fantastic contraptions in the fashion of Rube Goldberg. Consult the Saint Louis Science Center's engineering experts as you apply the not-so-simple mechanics of simple machines.

Cost: \$325/\$260 Members*

Positive Energy NEW!

Power your curiosity and explore the different ways to harness energy in this fast changing world. Experiment with how effective these energy systems can be. Become an engineer and brainstorm your own ways to use energy. You can create positive change in the world!





Robots Jr.

Enter the revolutionary world of robots! Learn how to design, build, and program your own robot. This camp is full of hands-on problem solving for students new to robotics. At the end of the week, put your robot to the test by participating in a series of fun, engineering challenges.

Cost: \$325/\$260 Members*

Secret Agent Science

Are you ready to embark on an undercover assignment? Your mission, should you choose to accept it, will be to become a spy kid! Learn to code and decode secret messages, analyze evidence and solve problems. Then embark on a top-secret scavenger hunt where you'll complete your mission using all the tricks of the trade.

The Science of Superpowers! **NEW!**

Look! Up in the sky! It's a bird! It's a plane! It's you! Superheroes may only be found in comic books and movies, but their powers are often found in nature, chemistry, and engineering! Explore the power of spider webs or how fish glow. See how fire is made without matches! Engineer your own super-gadgets and gizmos during our STEAM challenges as you create a secret identity. Can YOU have frozen breath? Is it possible to have super hearing? Find out this summer! POW!

AGES 10 – 12

Electrify and Energize!

Explore the science of energy and electricity! What is electricity? How do we generate and use electricity? Build simple generators and motors, learn all about static and current electricity, experiment with circuits, and see demonstrations of wireless electricity with a Tesla coil that might even sing!

Level Up **NEW!**

Play a video game that you create! You will learn how to program an epic 2D adventure game using professional video game development software. Create heroes, villains, and storylines for your own virtual world. At the end of the camp, take your game home and put your friends to the test.

Cost: \$400/\$320 Members*

Lunar Landers **NEW!**

Rocket to the Moon! Discover the components needed to send a person to Earth's only natural satellite. From the space suit to space food, learn how the human body survives the trip. We'll also explore what the Moon is made and take a trek through the new exhibit, *Destination Moon: The Apollo 11 Mission!*

AGES 13 – 16

Mars or Bust

The "Red Planet" beckons! Join us as we explore our solar system and what it is like to prepare for a space mission in a workshop that is out-of-this-world. Interview experts that regularly work on real-life space missions. Then, travel to the future on a Mars mission with the Challenger Learning Center, St. Louis and conduct two missions to Mars.

Cost: \$400/\$320 Members*

Robots Rewired

These ARE the droids you're looking for! Use logical reasoning and critical thinking to discover the ways computers and machines communicate. Play with basic programming codes, and learn how they work inside computers. This camp serves as the perfect introduction for young campers who wish to start the robot renaissance!

Cost: \$325/\$260 Members*

Science LIVE!

Experience how slimy, squishy and sensational the science of biology can be! Collect biological samples throughout the museum and Forest Park, then analyze microscopic organisms that often go unseen. Uncover a squid's inner workings through dissection and assemble your own self-contained ecosystem! ***This camp includes dissections.***

Cost: \$325/\$260 Members*

Zombie Survival Camp NEW!

Prepare for a zombie apocalypse! Survive by understanding the walking dead. Discover where real-life zombies live on Earth, and learn about their creepy behaviors. What other strange and seemingly fictitious organisms exist in our world? Dissect a real animal brain to determine what makes them so appealing. Join us as we investigate these strange beings together. ***This camp includes dissections.***

Design It, Build It!

If you have ever dreamed of creating your own invention, this camp is for you! Working with the Saint Louis Science Center's skilled designers and exhibit builders, you'll check out the machines and computers used in exhibit production in the museum. Then, take your own design from concept to fabrication!

Flight Academy

Get ready to pilot a REAL airplane! After four mornings of training on our state-of-the-art flight simulators, YOU will take off, fly, and land a real airplane under the supervision of a Certified Flight Instructor from Elite Aviation. Our expert Science Center staff and licensed pilots from Elite Aviation will train you on the same kind of flight simulators used by professional pilots. Did we mention that on Friday you get to fly a real airplane? Camp ends at 12pm Monday – Thursday and 4pm on Friday.

Cost: \$425/\$340 Members*

Veterinary Voyage NEW!

Get set to be a vet! Do you have what it takes to keep an animal happy and healthy? Learn what makes a worm wiggle, find a crayfish's teeth in its stomach, and examine the insides of a shark! Talk with animal care experts from the Saint Louis Zoo and get plenty of hands on experience performing dissections to learn the inner workings of an animal's body.

This camp includes dissections.

Cost: \$325/\$260 Members*

**Plus & MAX level Science Center Members*



SUMMER SPACE ADVENTURES 2018

IN FERGUSON, MISSOURI

The Challenger Learning Center-St. Louis offers campers age 8 to 18 opportunities to get in touch with their inner astronaut, engineer, and creative problem-solver. Program offerings and dates are below. For registration and more information, visit: challengerSTL.org.

All camp times are 9am – 3pm (Extended care options are available, 7:30am – 5pm)

ASTRONAUT TRAINING CAMPS

Each Astronaut Training Camp includes a variety of out-of-this-world experiences such as rocket building, underwater training in SCUBA gear, customizing spacesuits, constructing and living in a lunar colony, and much, much more! All Astronaut Training Camps include simulated space missions in the Center's award winning facility.

YOUNG ASTRONAUT TRAINING CAMP

Age: 8 – 10

Dates: Session 1: June 4 – 8
Session 2: June 11 – 15
Session 3: June 18 – 22

Cost: \$210

ASTRONAUT TRAINING CAMP

Age: 10 – 13

Dates: Session 1: June 25 – 29
Session 2: July 9 – 13

Cost: \$210

ADVANCED ASTRONAUT TRAINING CAMP

Age: 10 – 13 (includes SCUBA)

Dates: Session 1: July 16 – 20
Session 2: July 23 – 27

Cost: \$250

ADVANCED ROCKETEERING

Age: 10 and up

Date: June 11 – 15

Cost: \$275

Campers spend each day building and launching rockets, culminating in building their own customized rocket – complete with 3D printed parts they design themselves! Each participant will also build their own electronic launch system and platform, to continue the innovation far into the future.



205 Brotherton Lane
Ferguson, MO 63135

All week-long camps include a 2018 Summer Space Adventures t-shirt!



SPORTS IN SPACE

Age: 10 – 13

Date: June 18 – 22

Cost: \$250

Could you slam-dunk on Mars? Sprint on a spacewalk? Throw a curve ball on the Moon? Pirouette on Pluto? Campers will experiment with gravity, air resistance, momentum, and more to create a new way to play their favorite sports elsewhere in our Solar System. New this year: Campers will visit Sky Zone to test out their new high-flying skills..

INNOVATORS' WORKSHOP - NEW!

Age: 12 and up

Dates: TBD

Cost: \$400

Creativity and technology collide in this camp for young innovators. Campers will learn to use drills, band saws, soldering irons, and other shop tools, and combine them with high-tech gadgetry like Arduino micro-processors and 3D printers. Then, they will take their new maker skills to the next level with two days at a professional maker space, where they will use advanced rapid prototyping equipment like laser cutters and vacuum formers, culminating in making anything their imaginations and new-found skills will allow.

AQUATIC ROBOTICS

Age: 12 and up

Date: July 16 – 20

Cost: \$350

Make a splash this summer with a custom-made underwater rover that students will make and keep! In this challenging, highly-technical camp, student will use devices such as soldering irons, rotary drills and voltmeters to learn basic robotics and build their own custom SeaPerch ROV. The program culminates with a specially designed human/robot "weightless" experience where participants will learn the basics of SCUBA and join their robot in an underwater mission.

MARS OR BUST

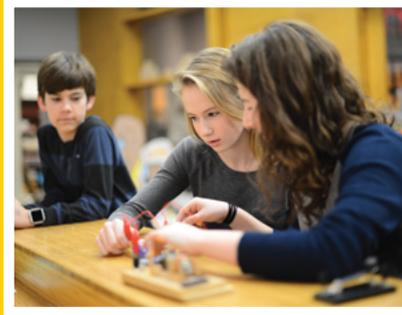
July 30 – August 3, the Challenger Learning Center is partnering with the Saint Louis Science Center to offer campers a week of Mars trekking. See the Summer Science Blast schedule for details.

**CALL 314.521.6205 OR VISIT CHALLENGERSTL.ORG
TO LEARN MORE AND REGISTER.**

There is always more to do at the Saint Louis Science Center. We offer a wide range of programming for any group.



**AMAZING SCIENCE
DEMONSTRATIONS**



SCHOOL PROGRAMS



SCOUTING PROGRAMS



PUBLIC PROGRAMS



CAMP-INS



**EARLY CHILDHOOD
& DISCOVERY ROOM**



GROUP PACKAGES



**JAMES S. MCDONNELL PLANETARIUM
& OMNIMAX® THEATER**



**BIRTHDAY PARTIES
& SPECIAL EVENTS**



BECOME A SCIENCE CENTER MEMBER TODAY

Members Enjoy a Full Year of **EXCLUSIVE** Benefits with **EVERY** Visit!

Includes **FREE** parking, **FREE** OMNIMAX® Theater, James S. McDonnell Planetarium and Discovery Room tickets. Plus, reciprocal benefits at over 300 museums.

20% OFF all Summer Science Blast Camps for **Plus & MAX** level Members.

3 EASY WAYS TO JOIN

ONLINE slsc.org/membership **CALL** 314.289.4491
IN PERSON Main Lobby