

STEM Matters NYC Summer Programs 2019

Borough	Partner/Location	Program Name	Entering Grades in September	Summer Start Date	Summer End Date	Program Description
Bronx	Bronx Zoo	What's For Lunch?	K, 1, 2	8/12/19	8/16/19	During this mouthwatering week, campers will explore what it takes to be a carnivore, herbivore, omnivore, and scavenger. Each day, campers will meet an animal that likes to eat something special. Through educational games, dramatic play, sensory exploration, art play, exhibit visits, up-close animal encounters and hands-on science investigations, campers will understand what it takes for that animal to get dinner on the table. Campers will share their camp experience with caregivers on Friday at a special closing ceremony!
Bronx	Wave Hill	Woodland Adventures	6, 7	7/15/19	7/19/19	Calling all future scientists! Spend a week at Wave Hill learning about the urban woodlands of New York and the wildlife that relies on them. Campers will investigate the parts of a forest, from trees and pollinators to soil and decomposers. Through hands-on, immersive activities, campers will develop their knowledge about urban forests and why they are so important!
Bronx	Bronx Zoo	Jr. Conservation Scientists!	6, 7, 8	7/22/19	7/26/19	Our planet's biodiversity is in jeopardy but fear not... scientists are working hard to protect it! Through fun and exciting visits from animal guests, exhibit visits, hands-on, inquiry-based activities and more, your camper will learn what different Wildlife Conservation Society scientists are doing to conserve wildlife. Campers will then use what they've learned to help, including educating Bronx Zoo visitors at a special Conservation Station about ways we can all help save wildlife!
Bronx	Wave Hill	Urban Forest Exploration	8, 9	7/8/19	7/12/19	Help us conserve our wondrous woodland! Spend a week at Wave Hill immersed in nature, conducting fieldwork. Campers will discover the ecological importance of urban woodlands and the wildlife that call them home, then apply what they learn to assist us in ongoing ecological restoration projects.
Brooklyn	Prospect Park Zoo	Kinderzoo	K, 1	7/15/19	7/19/19	Grab your passports and get ready for a wild trip around the world! Campers will discover what makes animals in the arctic different from those in Australia as they embark on adventures through the seven continents. Throughout their journey campers will meet animals up close, explore nature, create zoo crafts, and travel to animal exhibits - all while discovering unique adaptations of animals all over the world.
Brooklyn	New York Aquarium	Seaside Explorers	K, 1, 2	8/12/19	8/16/19	Come explore our own backyard in this hands on, beach based summer camp! Be prepared to get sandy as we discover the many living things that call our Coney Island beach home. You will explore the Aquarium exhibits and then, on the beach, meet local animal ambassadors and learn how you can be a better neighbor!
Brooklyn	Genovesi Environmental Study Center	Animal Habitats	1, 2	7/8/19	7/12/19	What animals live in the desert? How do animals in the tundra survive the harsh cold? Campers will discover these answers and more by learning about different habitats around the world and how animals adapt to their habitats in order to survive and thrive. Throughout this exciting week, campers will be engaged in many hands-on activities and animal encounters at Genovesi Environmental Study Center to better understand why animals live where they do.
Brooklyn	Genovesi Environmental Study Center	Plants, Animals, and Me!	1, 2	7/15/19	7/19/19	Plants, animals, and people depend on each other in many ways! Campers will investigate and explore these relationships through hands-on activities, art projects, and animal encounters at Genovesi Environmental Study Center (GESC). Campers will also learn about plant parts and how plants grow. Throughout the week, we will tend to the garden and harvest plants for our snacks and for the animals that live here at GESC.
Brooklyn	Genovesi Environmental Study Center	Plant Power	2, 3	7/15/19	7/19/19	If your camper loves growing, eating, and being amazed by plants everywhere you go, then this camp is perfect for your young botanist! Campers will spend the week at Genovesi Environmental Study Center learning about the different parts of plants and the ways we use them. Through hands-on science activities, crafts, and games, we'll discover what plants need to survive and how plants help us. Each day, campers will spend time in our urban farm learning to seed, weed, water, and even harvest!
Brooklyn	Genovesi Environmental Study Center	Science Myths and Mysteries	2, 3	7/22/19	7/26/19	Can you really get warts from touching toads? If you swallow a watermelon seed, will a watermelon grow in your stomach? Campers will uncover these answers and more as they investigate science myths and mysteries during this exciting week of camp at Genovesi Environmental Study Center. Through many hands-on experiments, crafts, gardening, and animal encounters, campers will learn that sometimes in science asking questions is more important than finding answers.
Brooklyn	Genovesi Environmental Study Center	Feathers and Fur and Scales, Oh My!	3, 4	7/8/19	7/12/19	Some animals have fur, some have scales, and some have feathers! Join Genovesi Environmental Study Center for a week of camp exploring six different classes of animals: reptiles, mammals, insects, amphibians, birds, and fish. Get up close and personal interacting with our animal residents while learning about their different characteristics and adaptations. Each day will be filled with crafts, hands-on activities, animal encounters, and inquiry-based explorations.
Brooklyn	Genovesi Environmental Study Center	Brooklyn Biologists	3, 4	7/15/19	7/19/19	A tree grows in Brooklyn...but not just one! Young biologists will discover the Genovesi Environmental Study Center's natural habitats, explore different ecosystems including the wildlife that call them home, take nature walks, and participate in exciting hands-on activities. Campers will create a personalized nature craft as a keep-sake of their exciting week.
Brooklyn	Prospect Park Zoo	Zoo Explorer: The Fast and the Furriest	3, 4	7/22/19	7/26/19	Campers will race around the world in this exciting week-long camp meeting animals up close and getting out into the zoo. Along the way, they will encounter challenges that test their creativity, sportsmanship, and teamwork as we explore our zoo animals and learn about their countries of origin. Puzzles, scavenger hunts, and trivia games are just some of the challenges campers might encounter! On your mark, get set, GO!

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Brooklyn	New York Aquarium	Ancient Oceans	3, 4, 5	8/12/19	8/16/19	Join us for a paleontology adventure as we travel back in time to explore our ancient oceans. We'll see how our oceans expanded and investigate ancient life in the seas. Through hands-on investigations, live animal encounters, and exhibit visits, we'll explore extinct prehistoric ocean giants as well as amazing aquatic animals that are still alive today!
Brooklyn	Genovesi Environmental Study Center	Eco Adventures	4, 5	7/22/19	7/26/19	Explore the natural world around us! Young ecologists will encounter the many animals and plants at the Genovesi Environmental Study Center and explore the backyard and garden while keeping a naturalist journal of their discoveries. Campers will participate in exciting hands-on activities to investigate different ecosystems including creating leaf art and homemade binoculars, gardening, and dissecting an owl pellet. After this exciting week, campers will truly be stewards of the environment!
Brooklyn	Genovesi Environmental Study Center	Weapons of the Wild	4, 5	7/15/19	7/19/19	Poison, armor, camouflage, oh my! Campers will discover how organisms are able to survive and thrive by adapting to their environment in a multitude of ways. Throughout this exciting week at Genovesi Environmental Study Center, campers will participate in hands-on activities, games, crafts, and animal encounters to see firsthand the fascinating ways in which organisms can defend themselves.
Brooklyn	Genovesi Environmental Study Center	Jr. Animal Caregivers	5, 6	7/8/19	7/12/19	Get ready to experience an exciting week interacting with and observing the animals at Genovesi Environmental Study Center (GESC)! Campers will learn about animals' habitats both at GESC and in the wild while discovering animals' needs and routines as junior animal caregivers. Campers will learn how to feed and handle the animals as well as build enrichment toys for their stimulation and exercise.
Brooklyn	MakerSpace NYC Futureworks Makerspace	Young Maker Gravity Camp	5, 6	7/22/19	7/26/19	Defy gravity with us at MakerSpace NYC Futureworks Makerspace! Young makers will learn about the physics of buoyancy, density, and other concepts. Then, using hand tools, power drills, and drivers safely with close supervision by experienced makers, campers will create fun projects like hoverboards. On the final day of camp, families are invited to join us to see projects up close.
Brooklyn	New York Aquarium	Aquarium Directors	6, 7, 8	7/8/19	7/12/19	Running an aquarium is a lot of work – are you up for it? Through hands-on activities and behind the scenes experiences, you will learn all about the different people who come together to make the New York Aquarium run. This wide-ranging camp will cover animal care and health, water quality, and engineering. Come join the staff for a week and be a part of the NY Aquarium team!
Brooklyn	New York Aquarium	Ocean Champions	6, 7, 8	8/12/19	8/16/19	Care about the ocean? So do we! Find out what the Wildlife Conservation Society and New Yorkers are doing to take care of our oceans around the world from Indonesia to Brooklyn. Campers will talk to experts, meet local animal ambassadors up close, and explore the aquarium exhibits and Coney Island Beach to create our own campaigns and projects to inspire positive change!
Brooklyn	MakerSpace NYC Futureworks Makerspace	Young Maker Electricity and Magnetism Camp	7, 8, 9	7/15/19	7/19/19	Come tinker with us at MakerSpace NYC Futureworks! Learn about electronics, magnetism, and other concepts in physics all week long. Learn to handle hand tools, power drills and drivers, and soldering irons, under close supervision by experienced makers in order to create projects like light up cards, magnetic spinning toys, motors, and more. On the final day of camp, families are invited to join us to see projects up close.
Brooklyn	Genovesi Environmental Study Center	GESC Internship-Animal Care Assistant	10, 11, 12	Two program options: A starts: 7/8/19 B starts: 7/10/19	Both programs A and B end: 8/16/19	Do you appreciate and respect animals? Do you want to learn how to take care of them? The Animal Care Assistant will work with Genovesi Environmental Study Center (GESC) staff to feed, clean, and enrich our animals and their homes. GESC is looking for students who are excited about working closely with animals, can multitask efficiently, and are enthusiastic about learning. Program A: Mondays, Tuesday, and Fridays from July 8-August 16, 2019, 9:00am-3:30pm Program B: Wednesdays, Thursdays, and Fridays from July 10-August 16, 2019, 9:00am-3:30pm
Brooklyn	Genovesi Environmental Study Center	GESC Internship-Teacher Assistant	10, 11, 12	7/8/19	7/26/19	Are you interested in teaching as a career? Do you like to inspire children? The Teacher Assistant will be a Genovesi Environmental Study Center (GESC) camp instructor's second-in-command helping to engage campers in learning. GESC is looking for students who are excited about working closely with children, can multitask efficiently, and are enthusiastic about learning and teaching.
Brooklyn	Genovesi Environmental Study Center	GESC Internship-Urban Farmer Assistant	10, 11, 12	Two program options: A starts: 7/8/2019 B starts: 7/29/2019	Two program options: A ends: 7/25/19 B ends: 8/15/19	Do you love being outside? Are you interested in learning how to maintain a garden? The Farmer Assistant will work with Genovesi Environmental Study Center's (GESC) urban farmer to germinate seeds, plant seedlings, water the garden, and harvest produce. GESC is looking for students who are excited about getting their hands dirty while being outside for most of the day, can multitask efficiently, and are excited about learning. Program A: Mondays-Thursdays from July 8-25, 2019 from 9:00am-3:30pm Program B: Mondays-Thursdays from July 29-August 15, 2019 from 9:00am-3:30pm

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Brooklyn	Genovesi Environmental Study Center and SUNY Old Westbury	Plants and Society: An Introduction to Plants and Their Importance in Society	10, 11, 12	7/8/19	8/1/19	The NYC Department of Education's Genovesi Environmental Study Center (GESC), in partnership with SUNY Old Westbury, are offering high school students an opportunity to experience a college-level course and earn four SUNY college credits. Plants and Society: An Introduction to Plants and Their Importance in Society, is a lecture and laboratory course. This course will introduce students to the diversity of form and function in plants, and will emphasize sustainability and plants' importance in society. Group and individual projects will include the use of light and dissecting microscopes, study of photosynthesis and cellular respiration, cultivation of common vegetables, and exploration of vegetation. Students who successfully pass this course will earn four SUNY college credits.
Manhattan	Central Park Zoo	Home Sweet Home, Animal Style	1, 2	7/8/19	7/12/19	Travel the world's biomes, from the driest deserts to tropical forests to explore a range of animal habitats and have up-close animal encounters along the way! Throughout the week, campers will have habitat-themed adventures and enjoy hands-on discoveries as they investigate our exhibits around the zoo.
Manhattan	Museum of the City of New York	I Spy New York: The Science of Photography	3, 4, 5	7/8/19	7/12/19	Curious about the historical significance and engineering of parks, bridges, buildings, and neighborhoods around your city? Explore history, science, and the art of photography through I Spy New York! Campers will enhance their literacy and research skills using the museum's technology and pick up photography skills using a digital camera. Possible field trips include: Central Park and The Javits Center Green Roof.
Manhattan	NYC Center for Aerospace and Applied Mathematics	NYC Aerospace Camp	5, 6, 7, 8	Four program options: A starts:7/8/19 B starts:7/15/19 C starts:7/22/19 D starts:7/29/19	Four program options: A ends: 7/12/19 B ends: 7/19/19 C ends: 7/22/19 D ends: 8/2/19	Want to join a mission to space? First you will need to train for it! Explore flight simulators in our NASA Aerospace Education Lab, launch rockets you constructed, and build Mars rovers with EV3 LEGO robots. During this action-packed week, campers will simulate astronaut training and learn about the history of space exploration to prepare for their ultimate mission: a simulated space adventure. Program A: Monday, July 8-Friday, July 12, 2019 Program B: Monday, July 15-Friday, July 19, 2019 Program C: Monday, July 22-Friday, July 26, 2019 Program D: Monday, July 29-Friday, August 2, 2019
Manhattan	Intrepid Sea, Air & Space Museum	STEM STARS	7, 8	7/15/19	7/26/19	Spend two weeks this summer on an out of this world adventure at the Intrepid Sea, Air & Space Museum! STEM STARS (Student Astronomers Reaching for Space) campers will study new discoveries in astronomy and engineering, and explore the future of space travel to celebrate the 50 th anniversary of the Apollo Moon Landing. Campers will participate in creative design-centered projects to better understand current space technology and what future technology is in development. Campers will work with miniature robots, build prototype “space capsules” and “heat shields” out of recyclable materials, and create art influenced by the objects that make up our universe. Campers will also explore the Museum’s exhibits including the Space Shuttle Pavilion, and participate in programs using the Museum’s planetarium, 3D printers, solar telescope, and resources from NASA.
Manhattan	Museum of the City of New York	I Spy NYC: The Science of Photography	7, 8, 9	7/22/19	7/26/19	Curious about the historical significance and engineering of parks, bridges, buildings, and neighborhoods around your city? Explore history, science, and the art of photography through I Spy NYC! Campers will enhance their literacy and research skills using the museum's technology and pick up photography skills using a digital camera. Possible field trips include: Central Park and The Javits Center Green Roof.
Manhattan	Cooper Hewitt, Smithsonian Design Museum	Digital Storytellers	10, 11	8/12/19	8/16/19	How are stories told in a digital world? Come find out during this week-long intensive at Cooper Hewitt, Smithsonian Design Museum. Work firsthand with experts from Adobe to explore the suite of programs in the Adobe Creative Cloud and build digital literacy skills. From vector illustrations to bitmaps (photography) to time-based media (animation/video), young designers will learn how to use these tools to tell their own compelling story!
Manhattan	NYC Center for Aerospace and Applied Mathematics	Earth Climate Institute	10, 11, 12	7/29/19	8/2/19	Are you interested in exploring climate change through the lens of NASA’s Earth Observing System? Join NYC Center for Aerospace and Applied Mathematics (NYCCAAM) for the week-long Earth Climate Institute. Discover how remote sensing works, learn how the Earth Observing System satellites collect the data, and use computer programs to investigate the meaning of the data. Meet with NASA scientists to hear about their current research and learn about careers at NASA. On the final day, take a simulated mission to the International Space Station where a developing crisis in Earth's orbit will put everything you have learned throughout the week to the test.

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Manhattan	NYC Center for Aerospace and Applied Mathematics	NYCCAAM Internship	10, 11, 12	Two program options: A starts: 7/8/19 B starts: 7/22/19	Two program options: A ends: 7/19/19 B ends: 8/2/19	Are you a high school student experienced with LEGO Mindstorms? Do you want to help teach younger students how to use it? The NYC Center for Aerospace and Applied Mathematics (NYCCAAM) is looking for responsible, motivated, and energetic high school students to participate in an exciting internship opportunity. Our weekly camps have an aerospace and robotics theme. Selected interns will work with elementary and middle school campers using LEGO Mindstorms EV3 robotic kits, and will create and lead a LEGO Mindstorms activity as a culminating project. At the conclusion of the internship, students will receive a certificate verifying the number of hours worked and the contributions made to NYCCAAM. Interns will receive a daily MetroCard for travel to and from NYCCAAM. Program A: Monday, July 8, 2019 to Friday, July 19 Program B: Monday, July 22 to Friday, August 2
Manhattan	New-York Historical Society	Tech Scholars	10, 11, 12	8/12/19	8/16/19	Calling all female-identifying high school students who love technology and history! Do you want to gain hands-on HTML and CSS training in the brand new Tech Commons @ New-York Historical Society? Become a Tech Scholar! During this week-long intensive, scholars will gain skills in coding and historical inquiry, design and launch their own web-based projects, and meet professional mentors across industries. At the end of the week, they'll have a custom site to present to their mentors and friends!
Queens	Queens Zoo	Wild Adaptations	1, 2	8/5/19	8/9/19	Let's explore what it takes to survive out in the wild! Just like us, animals need shelter, food, and water to survive. Every animal plays an important role in the web of life! We will hide like prey, hunt like predators, search for special adaptations of animals in the zoo and so much more this week!
Queens	Queens Botanical Garden	Guardians of the Garden	3, 4, 5	7/29/19	8/2/19	Our city is overflowing with curious natural wonders for you to explore at Queens Botanical Garden! Join our Guardians of the Garden camp and become one of nature's superheroes. Investigate what's blooming and buzzing this season and enjoy art projects and games, all inspired by our collections and landscapes.
Queens	Queens County Farm Museum	Queens Farm Summer STEMsation	3, 4, 5	7/22/19	7/26/19	Do you have what it takes to be a farmer? Are you ready to design your own homestead? Join us at the Queens Farm to find out! Learn about food systems, crop diversity, season extension, and sustainable practices happening at the Farm. Each day, campers will do actual work in the growing fields and explore a different aspect of farming: crops, animals, compost, cooking (and tasting) a meal in our historic farmhouse. The program culminates with a special family day where each camper can showcase their personal farm project!
Queens	Queens Zoo	STEM Stewards	3, 4, 5	7/29/19	8/2/19	Our world is constantly changing and just like animals, we play an important role in ecosystem health. How can we as humans help our animal friends? This week we will learn how we can be stewards to our local and global environments and gain a better understanding of our ambassador animals!
Queens	Queens Zoo	Conservation Scientists	6, 7, 8	7/15/19	7/19/19	Campers have an amazing opportunity during this week-long camp to think critically about climate change and how this may affect animals. They will learn about Wildlife Conservation Society scientists working to save wildlife and wild places. Using the zoo and up-close animal encounters as a resource, campers will simulate, build, incorporate technology, and have fun while conquering pressing issues of our time!
Queens	Queens County Farm Museum	Queens Farm STEMsation	6, 7, 8	7/29/19	8/2/19	Do you have what it takes to be a farmer? Are you ready to design your own homestead? Join us at the Queens Farm to find out! Learn about food systems, crop diversity, season extension, and sustainable practices happening at the Farm. Each day, campers will do actual work in the growing fields and explore a different aspect of farming: crops, animals, compost, cooking (and tasting) a meal in our historic farmhouse. The program culminates with a special family day where each camper can showcase their personal farm project!
Staten Island	Staten Island Zoo	Animal Adaptations: Survival of the Fittest	4, 5	8/5/19	8/9/19	What's the difference between poison and venom? How does mimicry work exactly? Learn the answers to these questions and more at the Staten Island Zoo this spring! Campers will explore the adaptations of predators and prey, environmental adaptations, and the adaptations of extreme animals through hands-on and inquiry-based learning. Using the resources of the Zoo's program animals, exhibits, biofacts, and hands-on classroom activities, campers will be able to identify and give examples of physical and behavioral adaptations and how they help animals survive.
Staten Island	Staten Island Museum	Discovery Camp	7, 8	8/5/19	8/16/19	Do you want to create STEM projects, tackle team challenges, and build inventions to improve people's lives? For two weeks this summer at the Staten Island Museum, explore our extensive biology, geology, and environmental science collection and enjoy hands-on workshops with our community partners, including the Billion Oyster Project, NYC Compost Project, and Freshkills Park. Whether you are investigating oyster beds, designing a weather station, building a composting worm bin, or harnessing the sun to cook on a solar oven or power a robot, each day of this two-week program will challenge you and spark your imagination!