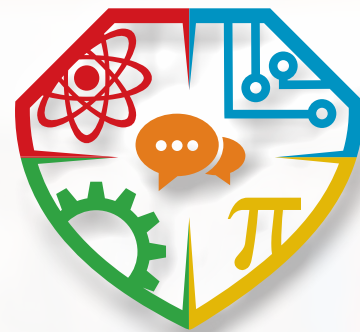




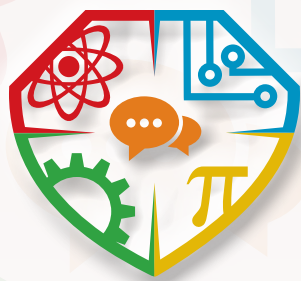
"Every child deserves a Quality STEM Education!"

"Everyone is an Artist and an Engineer!"

2019 ANNUAL REPORT



C-STEM



C-STEM

MISSION

To inspire the next generation of innovators and thought leaders by engaging them in exciting hands-on projects solving real-world problems to encourage entry into the talent pipeline, bolster self-confidence, and foster a well-rounded mastery of the areas of communication, science, technology, engineering, and mathematics.



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U.S. Department of Education @EduLeader - Jun 11
Yesterday, NASA astronaut, @SchiaviGerald, visited @ExcelAcademyPS first public girls school. She led an inspiring discussion with the students about her mission aboard the @ISS, @Orion, and more importantly, how you can get involved in @CSTEM. 🚀👩🏫

NASA astronaut @SchiaviGerald - Girls in STEM

It's Space City Month at



Celebrating the 50th anniversary of the Apollo 11 Moon Landing!

- July 5-6 - Apollo 11 Launch
- July 12 - Future of Human Space Flight
- July 17-18 - Houston's Orisland Laboratory (HOL) special exhibit with Dr. John Churns
- July 26 - Apollo 11 Re-entry
- July 27 - Apollo 11 Re-entry



If we want a nation where our future leaders, neighbors, and workers have the ability to understand and solve some of the complex challenges of today and tomorrow, and to meet the demands of the dynamic and evolving workforce, building students' skills, content knowledge, and fluency in STEM fields is essential. We must also make sure that, no matter where children live, they have access to quality learning environments. A child's zip code should not determine their STEM fluency.

U.S. Department of Education, 2020

MESSAGE FROM THE CHAIRMAN

Dear Stakeholders, Investors, Collaborators, Family, and Friends,

As the Chairman of the C-Stem Teacher Support Services Chairman, I send you warm greetings! For the last 18 years, C-STEM has continued to excel at its three core functions: 1) creating innovative hands-on STEM learning opportunities for youth K – 12th grade; 2) providing teacher training and support to aid educators in making STEM exciting and real; and 3) advocating for STEM policies and initiatives on a local, regional, and national level.

The C-STEM Challenge, our marquee event, brings together students, teachers, & support staff from many different schools for a day robotics competitions, learning, and fun. The 2019 Challenge was geared around automation and innovation. Conversely, the C-STEM organization did some automation and innovation of its own. In 2019, C-STEM (for the first time) helped three school districts hold their own C-STEM Challenge. Over 500 kids were exposed to C-STEM's outstanding curriculum that contained measurable tasks and activities to stimulate critical thinking and empower students to understand STEM in a tangible way. This was a huge step forward for C-STEM and we aim to continue to expand this effort.

C-STEM's signature teacher training program continues to make its mark in school districts around the country. To date, it has been implemented in multiple school districts, enhancing educators' capacity to bring better STEM education to their students. Additionally, C-STEM teacher support extends beyond the initial training with several years' worth of available STEM curriculum, technological tools (like our social media platform C-STEMBREAK), and a dedicated staff to assist with teachers in resolving issues. This service C-STEM provides schools is impacting hundreds of lives.

The end of 2019 also brought a change in administrative roles. Our founder, Dr. Reagan Flowers, ran for and narrowly lost a race to become the next School Board representative for Houston Independent School District. In recognition of the great race she ran and her dedication to the education of our Nation's future, Dr. Flowers was chosen to serve as a Trustee for Houston Community College District IV. To ensure the smooth running of C-STEM as Dr. Flowers works to enhance education on multiple fronts, she was able to recruit Mr. Hamane Edwards to become CSTEM's 2020 Executive Director. He is a great addition to the organization and we are excited to have him. We look forward to Dr. Flowers continuing to advocate for STEM education at every governmental level. Dr. Flowers will remain an active part of C-STEM as the fund development chair.

Looking into 2020 with our eyes wide open, we plan to increase our outreach to help more school districts engage with C-STEM's amazing suite of offerings. We are grateful to our corporate sponsors (Verizon, SABIC, and others) and we look forward to enhancing these relationships. We thank our community of parents, volunteers, donors, and supporters. You all are C-STEM ambassadors to the world. We thank you for your contributions which ensure that C-STEM's STEM Curriculum, events and camps, teacher training, internships, and more will continue for another 18 years.

Sincerely,



Ahmad Shaheed
C-STEM Board Chairman



“Try to learn something about everything and everything about something.”

Thomas Huxley,
Biologist and Anthropologist

MESSAGE FROM THE PRESIDENT



We welcome in each year with the goal of effectively carrying out the vision and mission of our organization and we close out the year celebrating all that we have accomplished. Thank you for your commitment to C-STEM and for your dedication to our students and our community. Each year, we are stronger and better prepared to provide incredible learning experiences for students and training for teachers.

As I reflect on 2019, I can see how committed you are to supporting C-STEM in preparing students to take advantage of opportunities that can transform their lives forever. In all that we do, we are helping students sharpen their critical thinking and problem-solving skills through collaborative project-based learning. We share a common goal which is to create cradle to career STEM talent pipelines. Through our student success stories, it is evident that C-STEM is developing workforce talent that is impacting cities across the globe.

In the age of automation and artificial intelligence, we continue to embrace innovation programmatically. Connecting as many students and teachers as we can to relevant STEM learning remains a strategic priority. Last year, C-STEM received two strategic plans from Rice University MBA student teams. One of the strategic priorities identified was to get back to the C-STEM feeder pattern model and to help schools create

their own C-STEM Challenge competitions—student achievement, community partnerships, financial stewardship, scalability and sustainability being the baseline for the decision. With a successful pilot, we are ready to implement the strategic priority and looking forward to having an even greater impact in our community.

We are passionate about the work we are doing and appreciate your continued investment in C-STEM. Our students and teachers are doing their part by embracing innovation and preparing for the future of work.

Together, we continue to provide opportunities that create unlimited possibilities!

Yours in the Journey of Education,

A stylized, handwritten signature in black ink, appearing to read 'Reagan Flowers'.

Dr. Reagan Flowers
President and CEO

"I believe that fortitude is key. More than anything, be consistent. Go at it. Go at it. Go at it. When you succeed, don't forget the responsibility of making someone else succeed with you."

Antonia Novello,
Former Surgeon General



I was taught that the way of progress was neither swift nor easy.

Marie Curie, Physicist & Chemist





We cannot change what we are not aware of, and once we are aware, we cannot help but change.

Sheryl Sandberg, Chief Operating Officer, Facebook



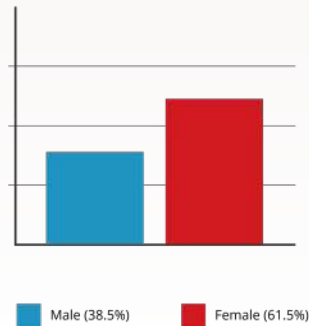
2019 DATA POINTS

C-STEM Challenge Day

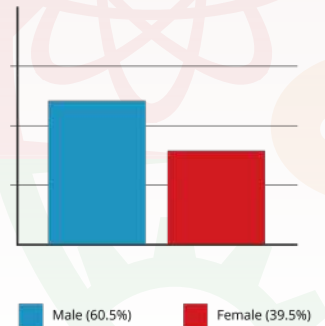
C-STEM Challenge Day is a highly motivating competition that engages students in multiple age groups to collaboratively identify, design, and build innovative solutions for up to eight different challenge modules: debate, robotics, innovation, computer programming, sculpture, mural, film, and photography. 48 teams from 12 school competed in the 2019 Challenge Day.

Our Integrated C-STEM Training Institute helps prepare teachers, and therefore their student teams, for this elite competition. Pre-K to 12th grade educators participate in chat sessions, webinars, podcasts, and our STEM social network throughout the year as they prepare for the spring Challenge Day.

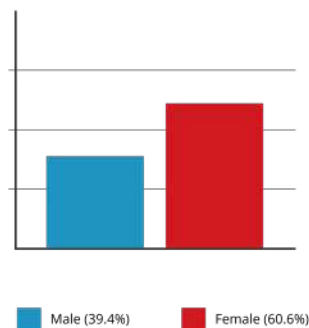
PRE K - 2ND GRADE:
Gender



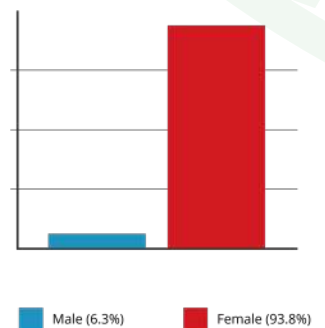
3RD - 6TH GRADE:
Gender



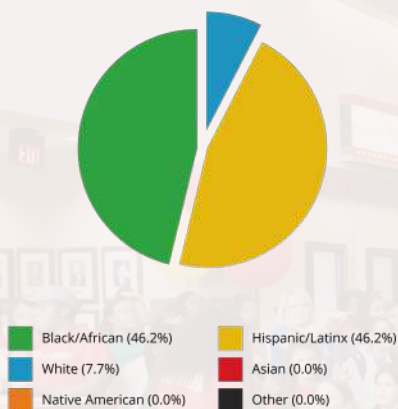
7TH - 12TH GRADE:
Gender



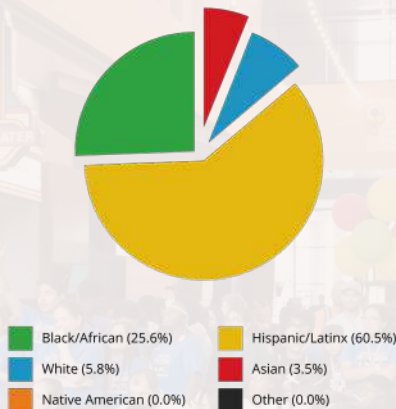
TEACHER:
Gender



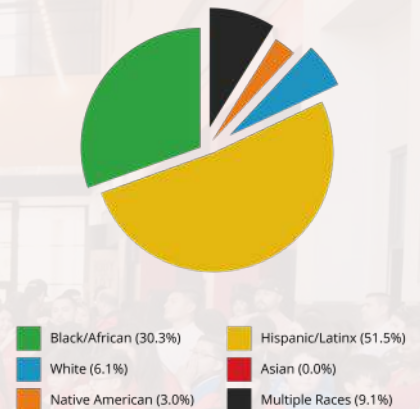
PRE K - 2ND GRADE:
Ethnicity



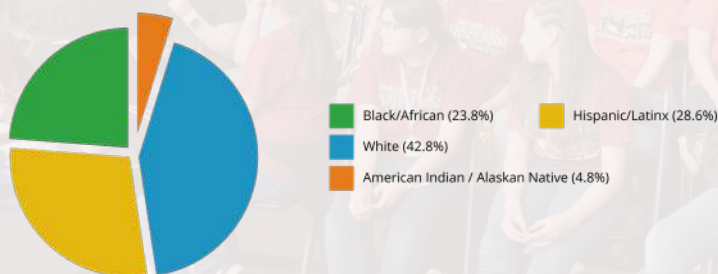
3RD - 6TH GRADE:
Ethnicity



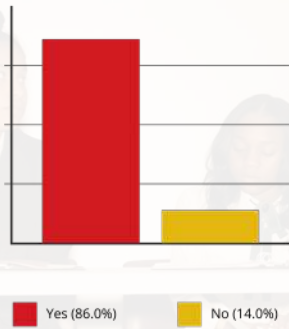
7TH - 12TH GRADE:
Ethnicity



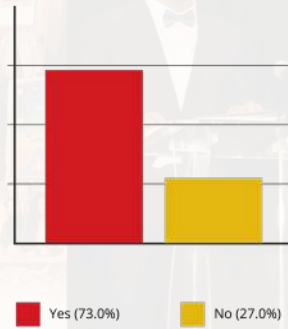
TEACHER:
Ethnicity



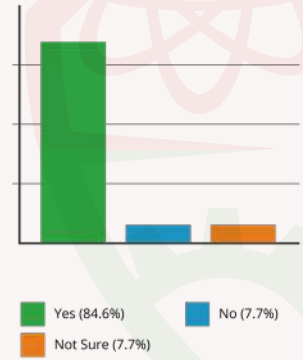
3RD - 6TH GRADE:
I am interested in a STEM related career



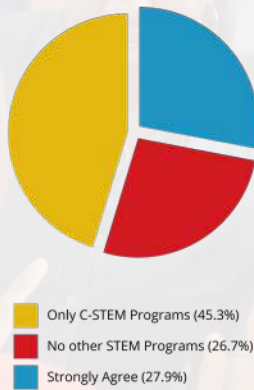
7TH - 12TH GRADE:
I am interested in a STEM related career



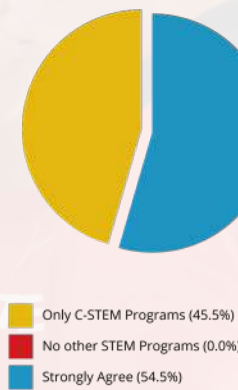
PRE K - 2ND GRADE:
I want to go to College



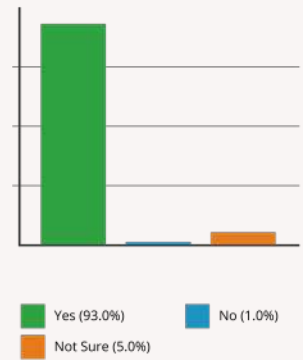
3RD - 6TH GRADE:
Prior to C-STEM, I participated in other STEM Programs



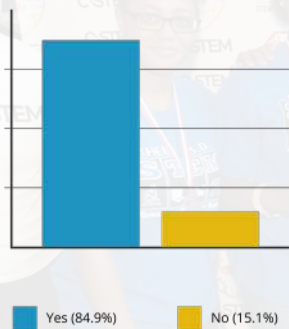
7TH - 12TH GRADE:
Prior to C-STEM, I participated in other STEM Programs



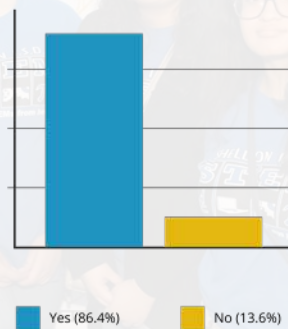
3RD - 6TH GRADE:
Do you plan to go to College?



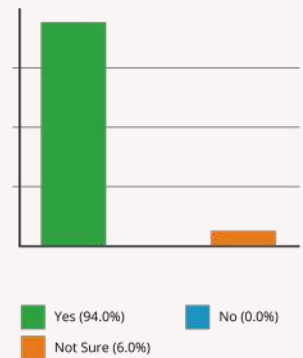
3RD - 6TH GRADE:
My parent(s) are involved with supporting my participation in STEM



7TH - 12TH GRADE:
My parent(s) are involved with supporting my participation in STEM



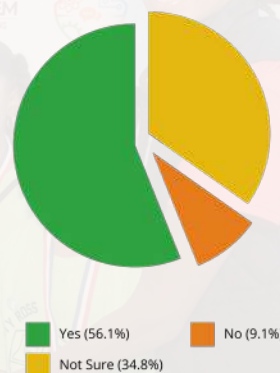
7TH - 12TH GRADE:
Do you plan to go to College?



3RD - 6TH GRADE:
In college do you think you will pursue a STEM career?



7TH - 12TH GRADE:
In college do you think you will pursue a STEM career?



GROWING OUR FOOTPRINT

6,563 FOLLOWERS

140,500 TWEET IMPRESSIONS



1,438 FOLLOWERS

107,400 IMPRESSIONS



AWARDS/HONORS

Lola M. Parker
Outstanding Business
Woman Of The Year,
Iota Phi Lambda Sorority

Marcia Johnson
Outstanding Public
Service
The Earl Carl Institute

MEDIA: AUDIENCE OVER 1 MILLION



Houston Style Magazine

houston
Forward Times
REPORTING THE TRUTH | AFFECTING CHANGE | MOVING FORWARD

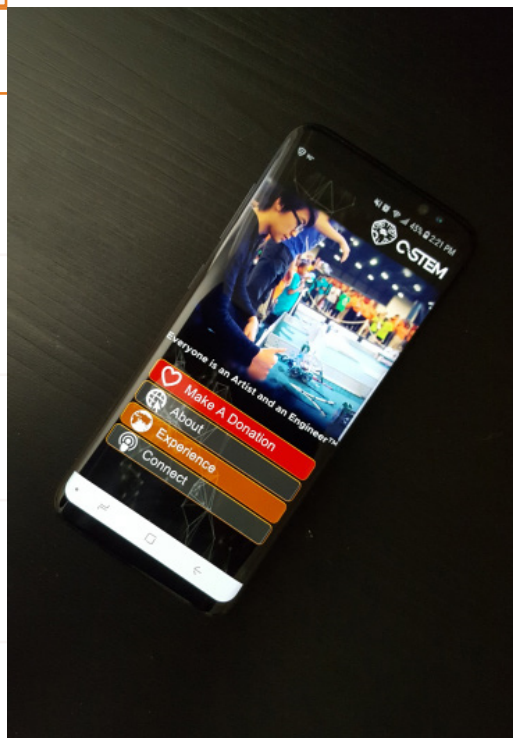
CSTEM.ORG

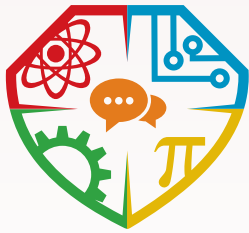
8,233
Users

26,151
Pageviews

87.9%
New Visitors

12.1%
Returning Visitors



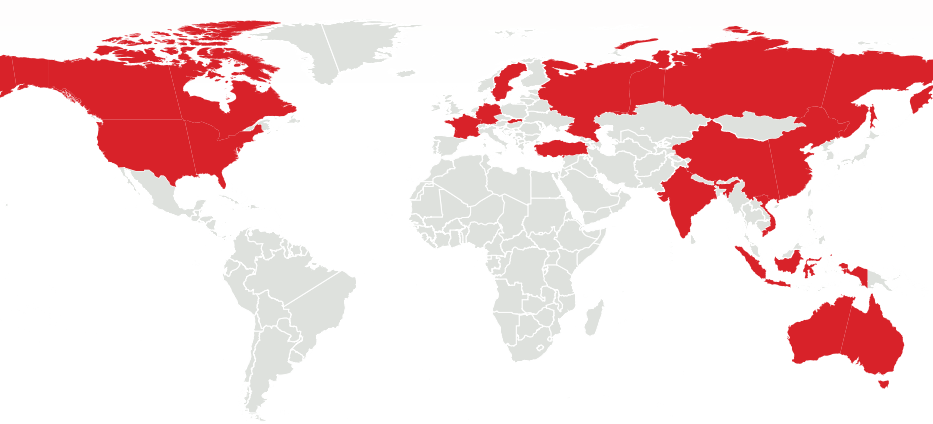


C-STEM

STEMCAST PODCAST

The STEMcast Podcast is designed to inspire and advance STEM perspectives. The host, Dr. Flowers, interviews STEM + Art + Communications professionals from all walks of life and discusses the significance of C-STEM in their professional and personal life.

Sponsored by: **HALLIBURTON**



ShaRell Webb



Dr. Ray Ann Havasy



Yolanda Vallier



Angela Barrow

FEATURED GUESTS



Dr. Stefanie Lemcke



Vince Luciani



Gessie Belizaire



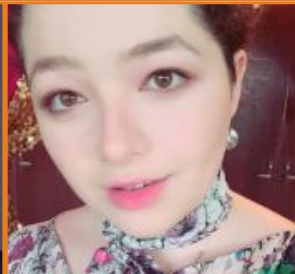
Melanie Wyatt



Kara Branch



David Bartholomew



Sofia Ivanka



Ryan Schwartz



Flora Gant



Sunni Markowitz



Kelly Hess



Zawadi Bryant Crayon



Perrye Turner



Jack Jackson



Alan Spreckley



In 2019 we introduced our Affiliate program, known as the Keys program. C-STEM Keys are schools, organizations, or school districts that's ready to make STEM more accessible and be a starting point for the students your community to have more access to quality STEM education. This program was introduced to make it easier for all schools to participate and benefit from what C-STEM programs have to offer, we've created our affiliate program known as the Keys program. Our Keys are basically saying, "We want to help unlock the future of STEM in our school and community."

The first district to capitalize on the program is Sheldon ISD who also hosted their first C-STEM Challenge Day last April. We look forward to all that they accomplish, and admire their dedication to unlocking the future of STEM in their schools.





STEMING THE TIDE SCHOLARS

Thanks to Comerica Bank, C-STEM was able to award scholarships to students attending the following universities:



HARVARD
UNIVERSITY



TRINITY
UNIVERSITY



Anshuman Kumar



Brittani Royston



Cameron Turner



Carol Ortiz



Jamiel Williams



Steven Nguyen



Sydney LeFlore Murphy



Imhotep Blot



Symone LeFlore Murphy

INTERNS

In 2019, the C-STEM internship program continued to provide real-world work experiences for talented college and university students. The 2019 C-STEM interns applied their knowledge in the following areas: *Communications, Computer Programming, Accounting/Finance, Healthcare Administration, and Mathematics.*



EXTENDED COMMUNITY IMPACT

C-STEM offers a variety of resources to further access to science, technology, engineering, and math education in the Houston community and beyond. Our vast efforts touch the lives of community members, educators, parents, and ultimately students. They are our future, and the product of all our hard work.

Jane Long Academy Wins Film Challenge, Prepares for Challenge Day



SABIC becomes a C-STEM Sponsor!



Congressional Black Caucus Foundation 27th Annual Science and Technology Brain Trust



Sheldon ISD Goes All In on STEM



National C-STEM Challenge Day at The Health Museum in Houston: 21 Pre K-12 Schools, 800 students, 100 volunteers participated



9th Annual State of STEM Education Stakeholder Breakfast



Myrtle Consulting Group becomes a C-STEM sponsor!



C-STEM Family Stands Strong



C-STEM Receives Large Tech Donation



High School Senior Blends Passion for STEM, SCOUTING



Rice MBA Students Embrace C-STEM Mission



C-STEM Honored for Efforts



Competition Prepared Sheldon ISD for Challenge Day



Dr. Flowers Receives Prestigious Award



Assembly Brings STEM to Elementary Students



C-STEM Partners with YWCA Boulder



Event Teaches Students About Money



Santa at The Ensemble



EXECUTIVE BOARD

The C-STEM Executive Board brings a diverse range of expertise and talent to the table. Thank you for your time, selfless spirit of giving and unwavering dedication.



Earl Cummings
Chairman Emeritus



Ahmad Shaheed
Chairman



Cherrilyn Nedd
Treasurer



Dr. Reagan Flowers
President



Kristal Palmer
Director



Myoshia Boykin-Anderson
Director



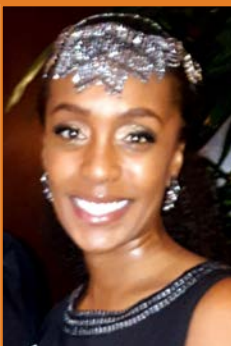
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Your donations are helping C-STEM students re-write their future. We thank you endlessly.

≤ \$100,000

Verizon

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SABIC

≤ \$20,000

Myoshia Boykin-Anderson

≤ \$10,000

The Fluor Foundation
Kristal Palmer

≤ \$5,000

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The Ensemble Theatre



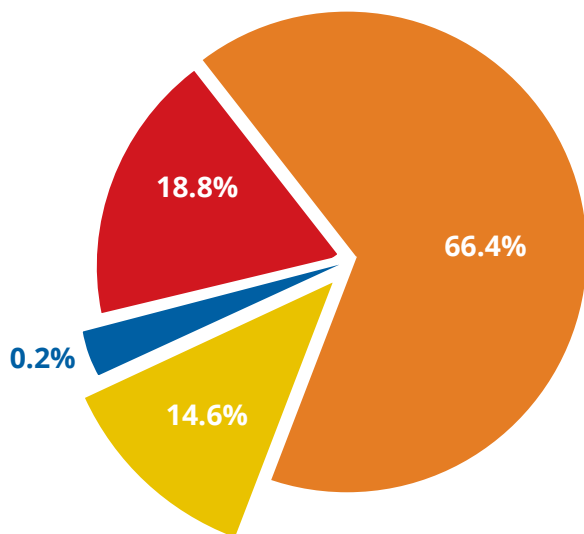
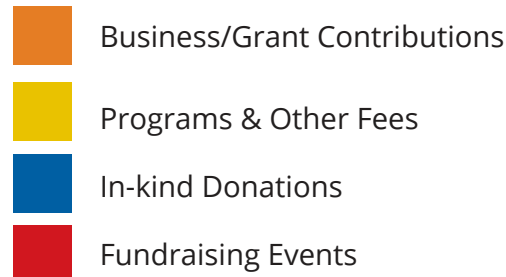
The most important thing in communication is hearing what isn't said.

Peter Drucker, Educator (1989)



FINANCIALS

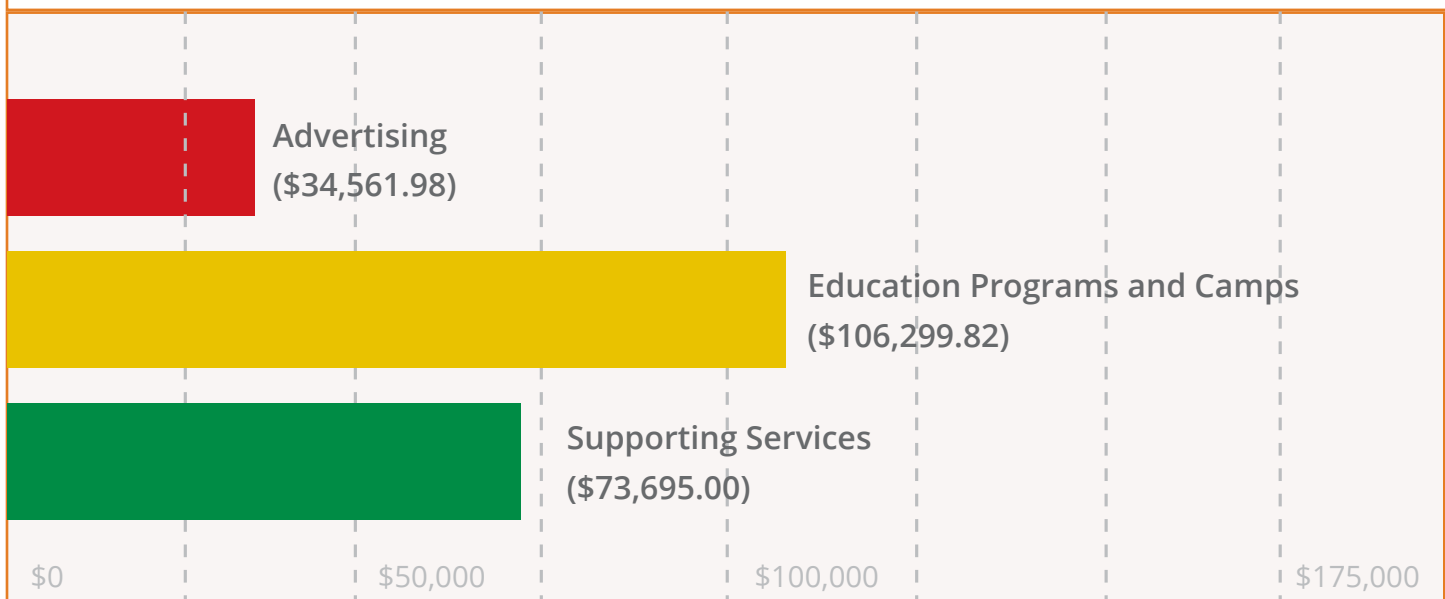
CONTRIBUTIONS



With your donations, we are creating a better future for our youth. We thank you immensely! The total operating revenue for the 2019 fiscal year was \$246,464.47 and in-kind revenue was \$671.09. Total expenses for the same time period were \$214,556.80



EXPENDITURES





Millions saw the apple fall,
but Newton asked 'why'

Bernard Baruch

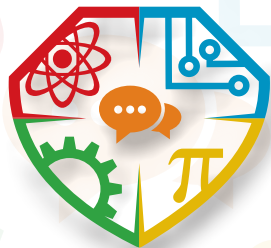


Ask what do you want now, to free yourself from thinking about the limitations of the technology and let your imagination take you to what things do you want to have done, what problems do you want to solve.

***Andra Keay**, Managing Director, Silicon Valley Robotics*

C-STEM
STEMCAST PODCAST

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C-STEM

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