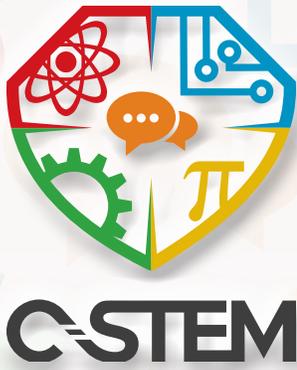


C-STEM

2018 ANNUAL REPORT

**“Providing Opportunities that
Create Endless Possibilities”**



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.

STAFF

C-STEM operates with a small, talented staff that works diligently to maximize the impact of our resources.



Luc To
Quality Control Engineer



Nelson Carvajal
Controller and Finance Officer

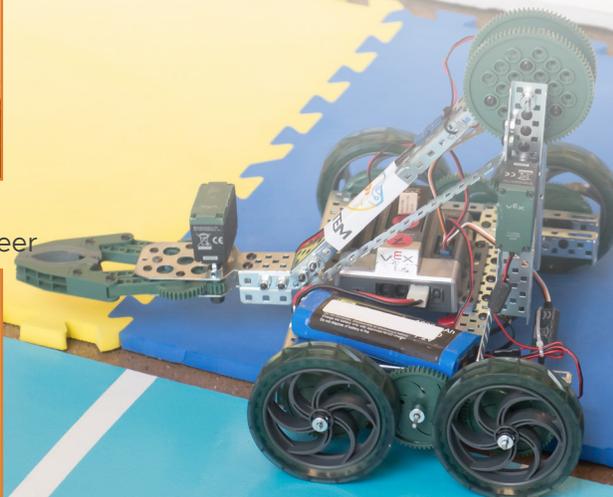


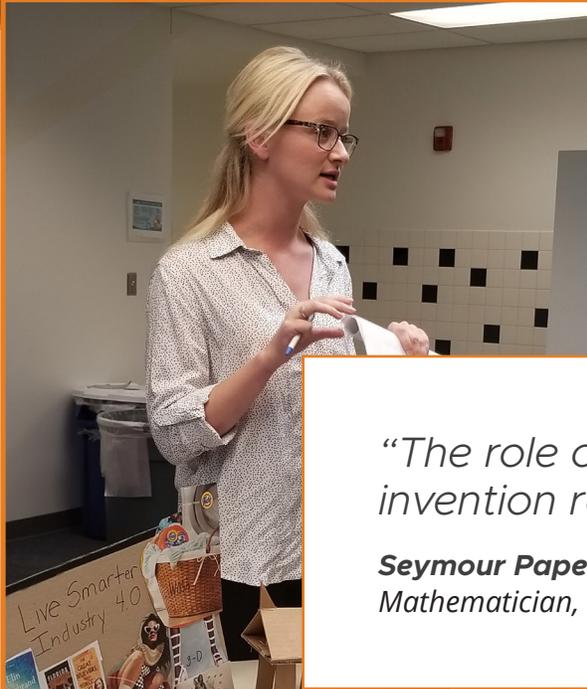
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C-STEM

iSTEM TRAINING



“The role of the teacher is to create the conditions for invention rather than provide ready-made knowledge.”

Seymour Papert
Mathematician, Computer Scientist and Educator



MESSAGE FROM THE CHAIRMAN

Dear C-STEM Connectors and Friends,

As a board member for the last seven years, I continue to be impressed as C-STEM finds more ways to connect with the community each year. Back in 2012, when I first joined the Board, I was amazed to see how the C-STEM curriculum actively engaged Houston students at the National C-STEM Challenge. This year, the event leveled up to include anyone in the community who wants to be a part of it. As Board Chair, every opportunity C-STEM brings allows me to connect in a hands-on way with our corporate donors, grant providers and everyday contributors who wholeheartedly embrace our mission of giving every young person the resources he or she needs to excel. Through the support of our connections, C-STEM will continue to connect students to careers in STEM that can change the quality of life for so many of our young people.

In 2018, we really expanded our efforts through a willingness to try new things and to share more of what we have built as an organization over the last 18 years. Working according to a clear mission, toward a specific goal, by implementing and testing new methods is at the heart of STEM itself, and that is exactly what we did. That goal was connecting more, doing more and giving more. We helped bridge gaps for those with limited access to literacy, connectivity and education through our new and expanded programs.

Once again, our contributors, corporate partners, enthusiastic educators, motivated parents, and other dynamic supporters stepped up to ensure that C-STEM continues to be able to offer life changing opportunities for our nation's youth. Though technology fuels all our efforts, word of mouth also is still vital to achieving our goals. Please continue to spread the word about the great things we are doing. Our collective impact can change the future of American education.

Sincerely,



Ahmad Shaheed
C-STEM Board Chairman



“Too often we give children answers to remember rather than problems to solve.”

Roger Lewin,
Scientist and Author

MESSAGE FROM THE PRESIDENT



Our 2018 annual report shows just how far we've come with the help of dedicated volunteers, insightful leaders, gracious sponsors, and engaged teachers and students. We planned the year with one big question as the launchpad for our efforts: How can we be of better service to our community? We really wanted to see how we could do more, how we could give more. We didn't just begin planning these efforts; we implemented successful measures and we're pleased to report them to you here.

We strive to actively pursue more channels for doing our part to support and prepare students for successful futures. In 2018, C-STEM got a lot done in this regard. First, we implemented seven day camps throughout the year covering robotics, polymers and lenticular activities. We were able to offer these camps at no charge for schools, organizations and churches serving minority and economically disadvantaged students in grades Pre-K through 12. This effort was not only rewarding for all involved; it also directly moves forward our mission to provide opportunities where very few exist.

We also completed the initial phase of the C-STEM Free WiFi Little Library Public Art Project last year. This initiative creatively fused STEM and the arts, while working to increase literacy and bridge the digital divide. You'll find more on this effort as you read further in this report.

Next, we expanded our C-STEM Challenge Day to engage as many members of the community as possible. This event previously only offered activities for participating student teams, but in 2018 we added 15 experience zones. These zones created STEM experiences for everyone, including the chance to participate as a walk-up robotics challenger.

Finally, we expanded our efforts to Virginia. Every expansion effort enables us to accomplish what is critical to our mission—advocating for high quality and equitable C-STEM education for all students, particularly those who are underserved and underrepresented.

Overall, we did exceptional work in 2018, thanks to a wealth of support, resources and donations. We also could not have accomplished all we did without the visionary support of our Executive Board. To our incredible support system, which includes students, teachers, donors, sponsors, board members, and community leaders, we can't thank you enough for your commitment to C-STEM, and most of all your willingness to give of yourselves.

Yours in the Journey of Education,

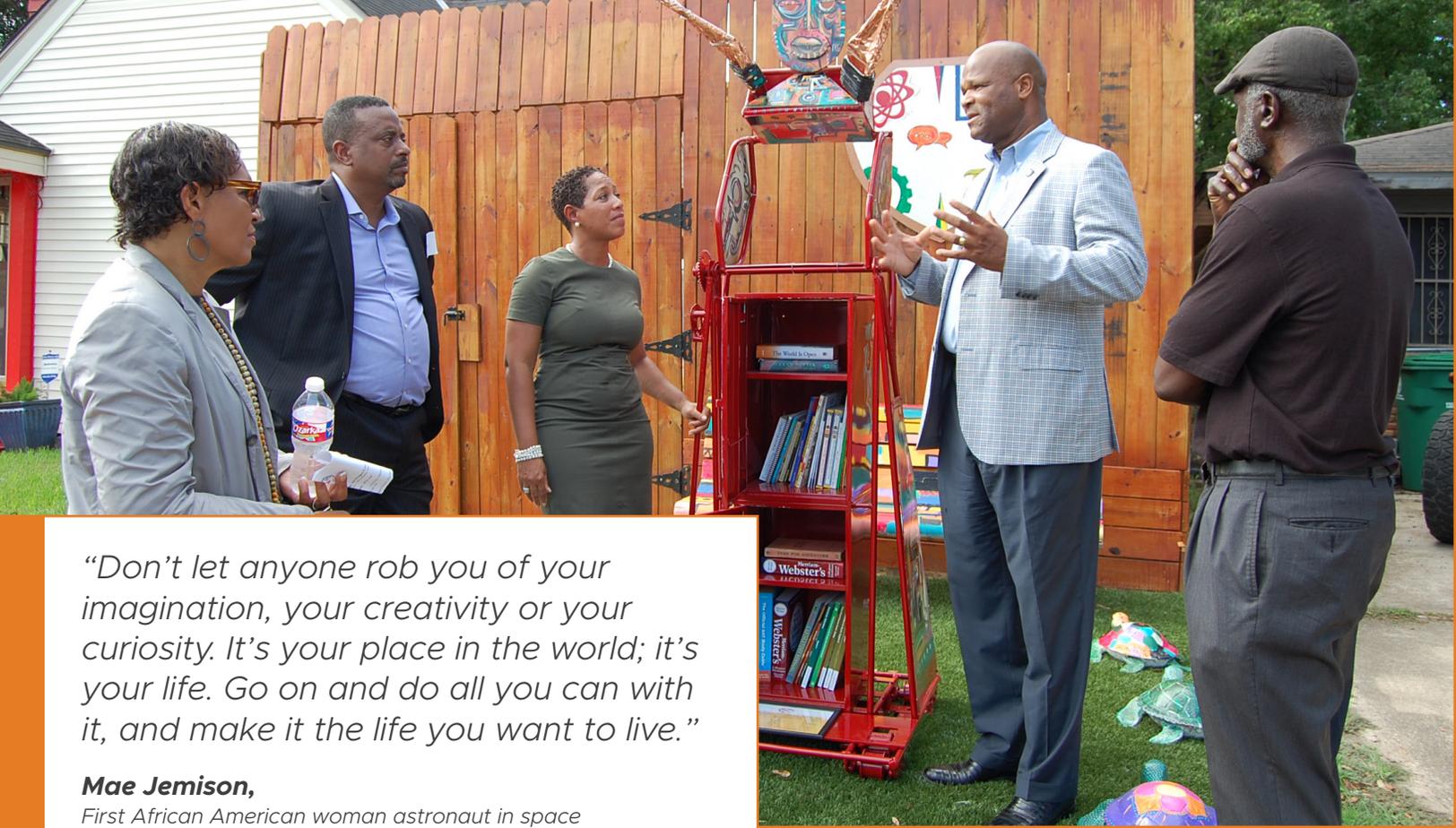
A handwritten signature in black ink, appearing to read "Reagan Flowers".

Dr. Reagan Flowers
President and CEO

“Science is not a boy’s game, it’s not a girl’s game. It’s everyone’s game. It’s about where we are and where we’re going.”

Nichelle Nichols,

Former NASA Ambassador & Star Trek actress



“Don’t let anyone rob you of your imagination, your creativity or your curiosity. It’s your place in the world; it’s your life. Go on and do all you can with it, and make it the life you want to live.”

Mae Jemison,
First African American woman astronaut in space



SUM AND SUBSTANCE





“Early STEM learning establishes the strong foundation that elementary school students need to maximize their academic potential for years to come. With this groundwork in place, students are more easily prepared for careers in STEM fields as well as other professional areas.”

Charles Phillips
CEO, Infor Global Solutions



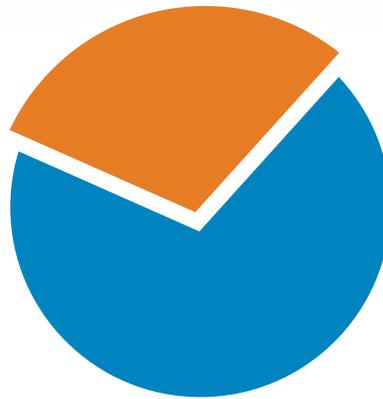
2018 DATA POINTS

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. Nearly 1,000 students from across the country competed in the 2018 event.

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.

STUDENT DEMOGRAPHICS: Elementary



■ Females (31.6%)
 ■ Males (68.4%)

STUDENT DEMOGRAPHICS: Middle & High



■ Females (71.4%)
 ■ Males (28.6%)

TEAM PARTICIPATION: 2018 C-STEM Challenge



■ Robotics (33.33%)
 ■ Innovation (18.52%)
■ Photography (14.81%)
 ■ Mural (11.11%)
■ Film (3.7%)
 ■ Sculpture (14.81%)
■ Debate (3.7%)



SCHOOL LEVEL PARTICIPATION

■ Kindergarten (10%)
 ■ Middle (10%)
■ Elementary (60%)
 ■ High (20%)

INTERNS' DEGREE PROGRAMS



■ Art (40%)
 ■ Business (30%)
■ Engineering (10%)
 ■ Science (10%)
■ Math (10%)

GROWING OUR FOOTPRINT

6,110 FOLLOWERS



60,000 TWEET IMPRESSIONS



1,378 FOLLOWERS

836,740 IMPRESSIONS



AWARDS/HONORS



STEMWORKS
CERTIFIED

MEDIA: AUDIENCE OVER 1 MILLION



Houston Style Magazine



VoyageHouston

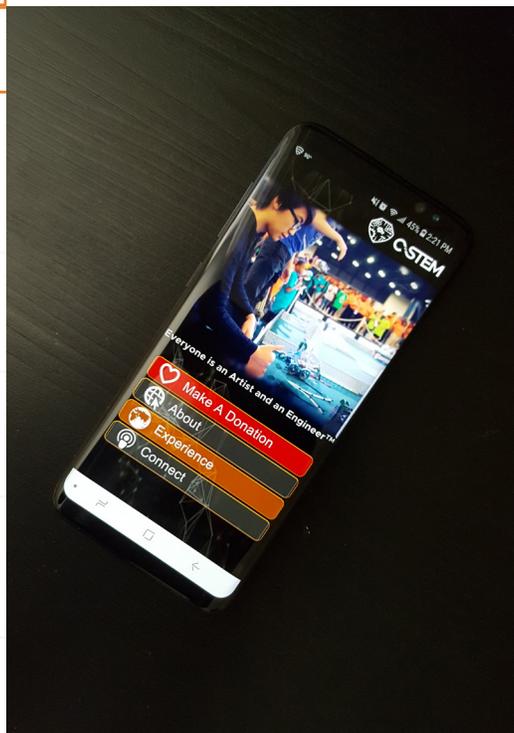
CSTEM.ORG

3,835
Users

13,662
Pageviews

88.3%
New Visitors

11.7%
Returning Visitors



CSTEMBreak

7,688
Pageviews

3,085
Members

581
Users

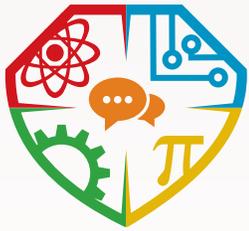
7,152
Shared Photos

80.2%
New Visitors

263
Shared Videos

19.8%
Returning Visitors

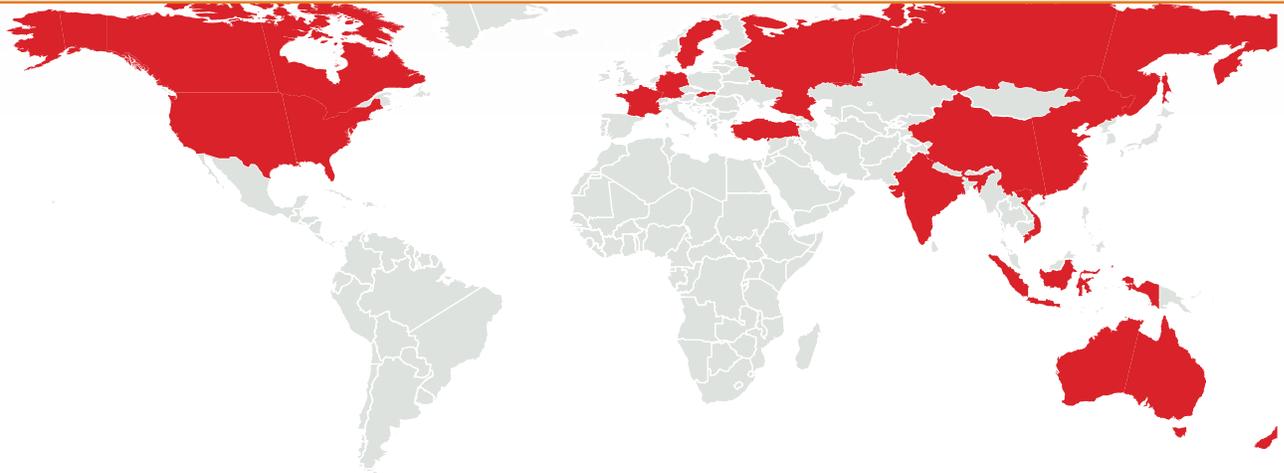
19
Groups



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.

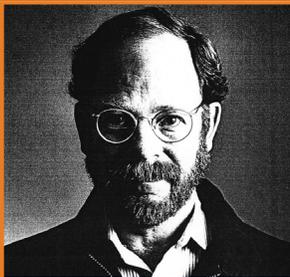
Sponsored by: **HALLIBURTON**



FEATURED GUESTS



LaToya Bullard-Franklin



Danny Samuels



Denzil Ross, MBA



Damian Gilling, Ph.D



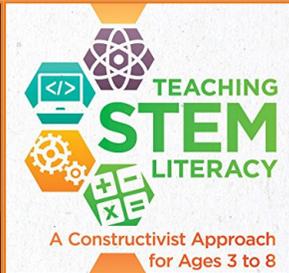
Myoshia Boykin-Anderson



Marc Davidson



Dr. Lanier A. Watkins



Juliana Texley & Ruth M. Ruud



Dr. Martina Ogbonna



Dr. LeTitia Franklin



Laura Nelson



Dr. Baxter D. Montgomery



Eric Hammond



Maya Ajmera

C-STEM FREE LITTLE LIBRARY PUBLIC ART PROJECT

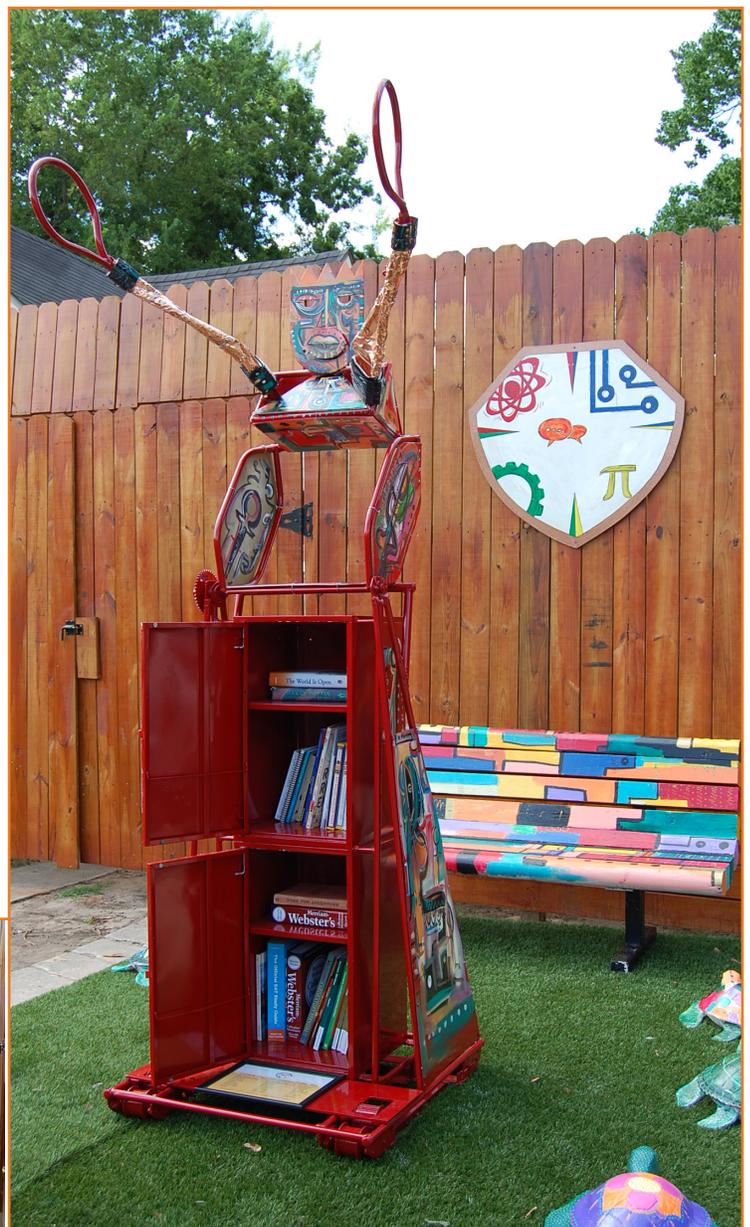
This groundbreaking initiative became reality in 2018, blending art, technology and literacy, with collaboration by Houston students, teachers and supporters. In addition to serving as a beautiful piece of art in the Greater Third Ward, the little library provides free books and Wi-Fi access to those who may not otherwise have access to literacy or connectivity.

Houston artist Charles Washington created the beautiful piece, which includes robot parts from local Jack Yates High School students who competed in the 2000 and 2001 FIRST Lone Star Regional Robotics Competition. The design also incorporates sea turtles decorated by PreK - 12th grade students.

Harambee Art Gallery partnered with C-STEM to make this venture happen. We also owe a great deal of gratitude to the donors who supported this project.

LITTLE LIBRARY DONORS

Nancy Kralik	Joi Beasley
Genesis Testing Services, Inc.	Zena Whitworth
Education Consulting Services. LLC	Christopher Dixon
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Wayne Lockett	Kethia M Webber
Lereca Monik	Denise Duvernay
Bherita Hall	Luc To
Roscoe Wade	Laquita Cyprian
Gregory Pace	Nelson Carvajal
Sonya Troullier	Allison Hampton
Christopher Grant	Savannah Lawson
Leticia Ventura	Carla Brailey
Phil Denson	Bobby I Brown
Joycelyn Williams	Hope Hill
	Richard Becker
	Vin Hennessy





STEMING THE TIDE SCHOLARS

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



INTERNS

In 2018, the C-STEM internship program continued to provide real-world work experiences for talented college and university students. The 2018 C-STEM interns applied their knowledge in the following areas: *Communications, Computer Programming, Accounting/Finance, Healthcare Administration, and Mathematics.*



Alexandar Dunbar



Allison Hampton



Hadijah "Dede" Lawal



Hong Nguyen



Jada LaRue



Deborah Yuma



Sydney LeFlore



Minh Pham

Elizabeth Galvan

Elizabeth Galvan

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.

<p>C-STEM Little Library Public Art Project</p> 	<p>Smithsonian Magazine Day at The Health Museum</p> 	<p>Congressional Black Caucus Foundation 26th Annual Science and Technology Brain Trust</p> 	<p>LSU Girls Night at the Museum, Participating Sponsor</p> 
<p>National C-STEM Challenge Day at The Health Museum in Houston: 21 Pre K-12 Schools, 800 students, 100 volunteers participated</p>  		<p>8th Annual State of STEM Education Stakeholder Breakfast</p> 	<p>Sabic becomes a C-STEM Sponsor!</p> 
<p>16 Day Camps, more than 1,000 students served</p>  		<p>100 Black Men Robotics Workshop, Texas Southern University</p> 	<p>Enterprising Women Conference</p> 
<p>ICTI trained 32 Pre K-12th grade teachers, impacting more than 3,200 students</p>  		<p>Sum & Substance Speaker</p> 	<p>AdvancED STEM II Summit, Speaker and C-STEM Presentation, Middle Tennessee State University</p> 
<p>East Harris County Empowerment Council</p> 	<p>C-STEM Lifestyle Events: Heart Health Now</p>  <p>June 3, 2018 3:00 - 5:00 pm Define Living: Meditation and Well Being.</p>		<p>Money Live Career and Money Simulation - C-STEM Interactive Exhibit</p> 

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



Shomari Williams
Secretary



Dr. Reagan Flowers
President



Dr. Robert Satcher
Director



Myoshia Boykin-Anderson
Director



Charles Samuel
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Dr. Martina Ogbonna
Director



Miloni Shah
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Nancy Kralik
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We thank you endlessly.

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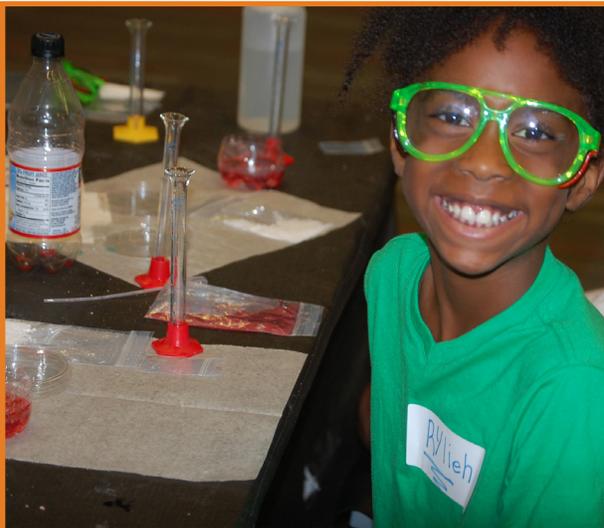
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ATT- Anonymous
Employee

“We must prioritize and support programs that ensure principles of computer science, computational thinking, and STEM skills are integrated into K-12 education. Early STEM learning establishes the strong foundation that elementary school students need to maximize their academic potential for years to come. With this groundwork in place, students are more easily prepared for careers in STEM fields as well as other professional areas.”

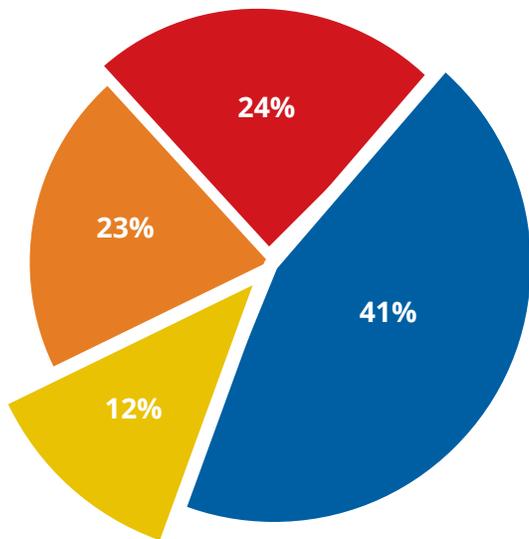
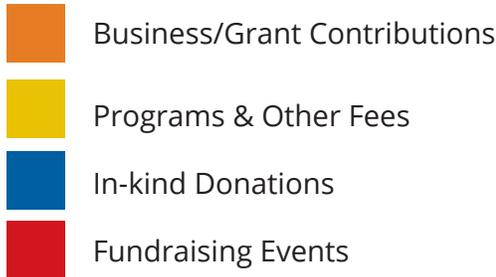
Bruce Aust

Chairman, NASDAQ, CNBC, April 2018



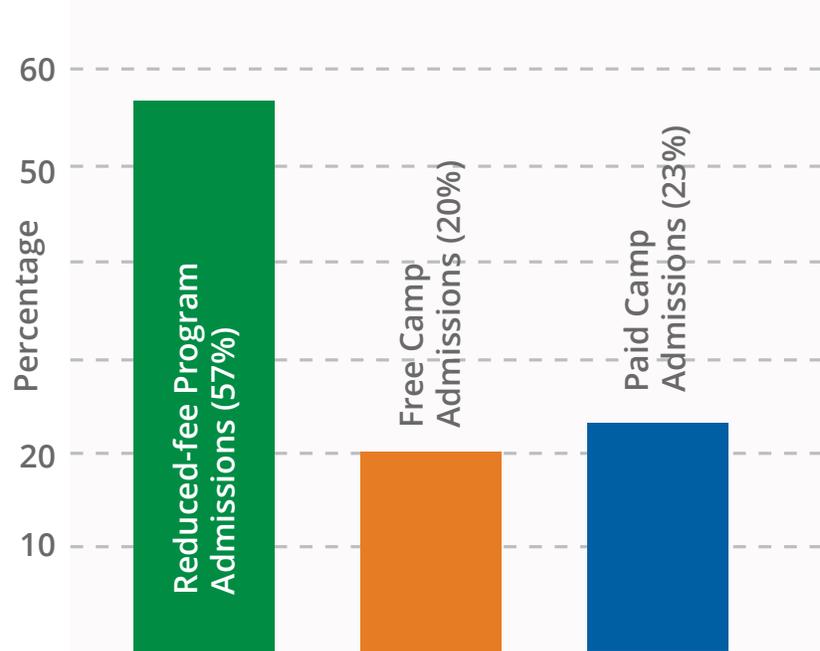
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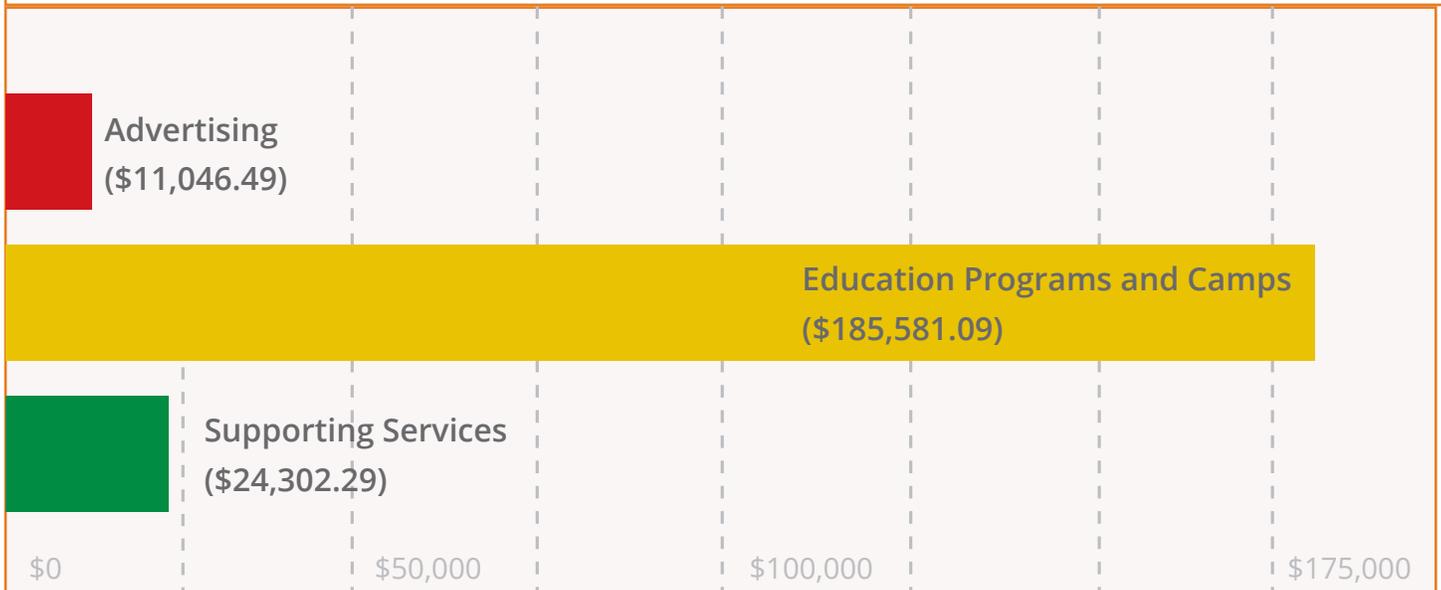


With your donations, we are creating a better future for our youth. We thank you immensely! The total operating revenue for the 2018 fiscal year was \$214,450.94 and in-kind revenue was \$110,080.33. Total expenses for the same time period were \$220,929.87.

PROGRAM ADMISSIONS



EXPENDITURES





“Math specifically concerns me in a society that’s becoming more and more technological. The economy needs more students with STEM education, and good math skills are vital to the STEM orientation. There is a high risk for the U.S. economy coming to a slowdown or a standstill.”

Marten Roorda

ACT Chief Executive | The Wall Street Journal, October 2018





CSTEM

“No young person in America should miss out on the chance to excel in these fields just because they don’t have the resources.”

Former President Barack Obama

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