“Providing Opportunities that Create Endless Possibilities”
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.

MISSION

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

STAFF

Luc To
Quality Control Engineer

Nelson Carvajal
Controller and Finance Officer
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“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
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
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,

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
“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
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%
- Photography: 14.81%
- Film: 3.7%
- Debate: 3.7%
- Innovation: 18.52%
- Mural: 11.11%
- Sculpture: 14.81%

**SCHOOL LEVEL PARTICIPATION**

- Kindergarten: 10%
- Elementary: 60%
- Middle: 10%
- High: 20%

**INTERNS’ DEGREE PROGRAMS**

- Art: 40%
- Business: 30%
- Engineering: 10%
- Math: 10%
- Science: 10%
# Growing Our Footprint

![Twitter](image1.png)

- **6,110** Followers
- **60,000** Tweet Impressions

- **1,378** Followers
- **836,740** Impressions

---

## Awards/Honors

- **Seal of Transparency Bronze Certificate**
- **STEMWorks Certified**

## Media: Audience Over 1 Million

- **KPRC Houston**
- **Defender Network**
- **Houston Forward Times**
- **Houston Style Magazine**
- **VoyageHouston**

### CSTEM.org

- **3,835** Users
- **13,662** Pageviews
- **88.3%** New Visitors
- **11.7%** Returning Visitors

### CSTEMBreak

<table>
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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
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  
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Leticia Ventura  
Phil Denson  
Joycelyn Williams  
Joi Beasley  
Zena Whitworth  
Christopher Dixon  
David Lattin  
Mark Thierry  
Kethia M Webber  
Denise Duvernay  
Luc To  
Laquita Cyprian  
Nelson Carvajal  
Allison Hampton  
Savannah Lawson  
Carla Brailey  
Bobby I Brown  
Hope Hill  
Richard Becker  
Vin Hennessy
Thanks to Comerica Bank, C-STEM was able to award scholarships to students attending the following universities:

**STEMING THE TIDE SCHOLARS**

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.

**INTERNS**

- Alexandar Dunbar
- Allison Hampton
- Hadilah “Dede” Lawal
- Hong Nguyen
- Jada LaRue
- Deborah Yuma
- Sydney LeFlore
- Minh Pham
- Elizabeth Galvan
- Elizabeth Galvan
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.
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.

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DONORS

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

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Ama Love
Amal Babar
Bobby I Brown
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Christopher Grant
David Lattin
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Allison Hampton
Robert Ford
Tyara Barge
Bridgett Sonier
Chante Tousant
Debbie A. Bates
Savvanah Lawson
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
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.
“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
“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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