

2014

C-STEM
Teacher and Student Support Services, Inc.



Annual Report

“Everyone is an Artist and an Engineer”

Our 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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Dear Friends,

Since 2002 I have made it my commitment to inspire generations of Pre K -12th grade students. C-STEM provides students with relevant experiences to support the application of classroom learning to solve real-world problems in STEM areas.

The sustainability and continued growth of C-STEM is the direct result of our community partnerships with the likes of corporations, organizations, Pre K-12th grade schools, and colleges/universities. Our community champions believe in the power of C-STEM. This year we have expanded our CSTEM Challenge adding a second competition in Detroit, Michigan. Our Midwest CSTEM Challenge allows us to impact a greater number of students, teachers, and communities.

We have added and renewed partnerships. Further, we had record breaking numbers of students impacted this year in addition to receiving numerous recognitions and awards locally and nationally. Our STEM programs, daVinci Booster Club, and training workshops have been thriving. The C-STEM Board and everyone that works with us have contributed to our successful year.

Thank you for planting and watering the seeds that have sustained and are helping C-STEM grow. We are and will continue to be committed to our STEM education outreach goals. We know that STEM provides the economic opportunities that transform lives, families, and communities.

Yours in the Journey of Education,



Dr. Reagan Flowers
Founder and CEO

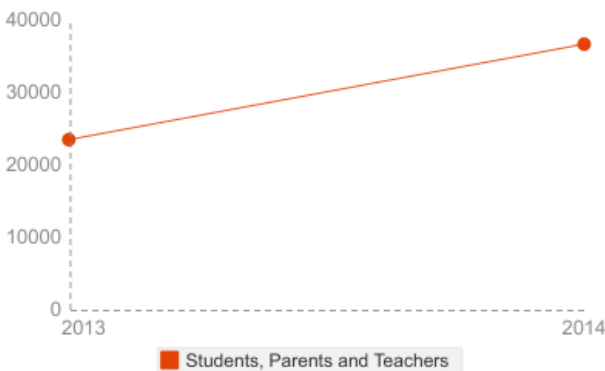


2014 Community Impact

CSTEM Challenge: 34,352

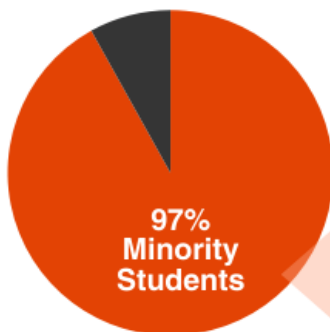
STEM Back to School Drive: 1,000

STEM Collaborations: 1,170



**35% Increase
from 2013**

Our Demographics



47% Male

53% Female

67% Hispanic

19% African American

2% Asian

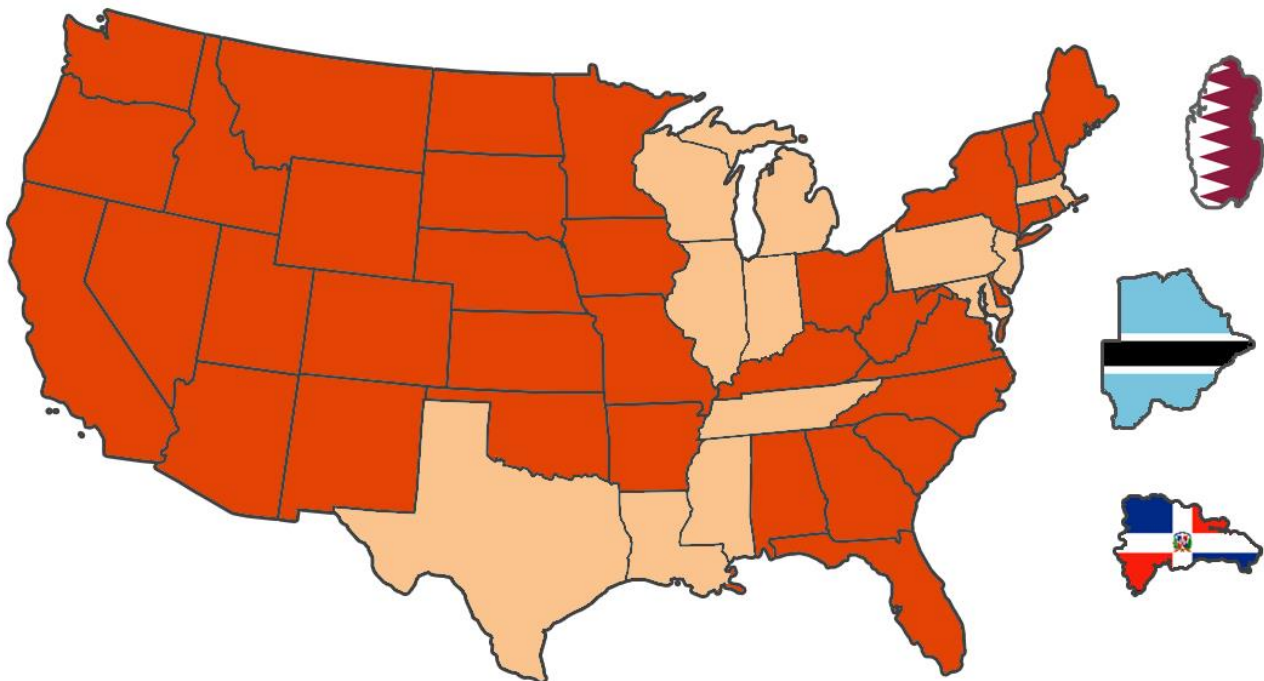
9% Other

3% Caucasian

Our Footprint



STEM has no borders. We are continuing to connect students and teachers globally.



 = Impacted area

Who? What? Why?



Texas, Maryland, and Louisiana



The C-STEM Challenge is a highly motivating competition that engages students in multi-aged groups to collaboratively solve six challenges that are designed by industry professionals and are national standards-aligned project-based learning activities, thus demonstrating the impact of teacher training on student learning and student performance in a STEM competition environment.



34,000

**Students
impacted in
2014**



30%

**Increase
compared to
2013**

“The competition was so much fun. Getting ready for it throughout the semester was probably the best part about it. Problem solving and thinking of new ideas with my classmates made it fun.” -C-STEM Student



C-STEM Expanded to the MIDWEST!

The growth of C-STEM has allowed us to bring the C-STEM Challenge to the Midwest. The second challenge will be hosted in the city of Detroit. Over 21 schools have already signed up for the Midwest Challenge. We are excited to see our growing impact on students around the nation. With our new Challenge we will impact students from Michigan, Illinois, Ohio, Indiana, Wisconsin, and Maryland.

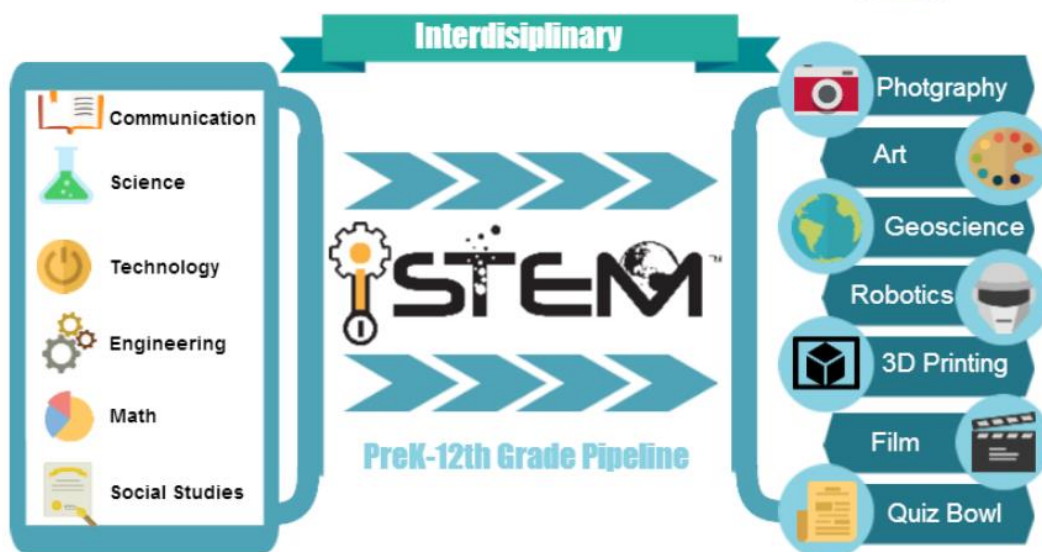


"I signed my students up for the iSTEM Olympiad because I felt they were not getting the hands on experience in the classroom that they need. They enjoyed it all and they look forward to competing next year."-iSTEM Teacher

The iSTEM Olympiad provides integrated STEM learning experiences that create opportunities for Pre-K through 12th grade students to connect learning to the real world. Through C-STEM, students have an opportunity to explore their STEM talents. Through the iSTEM Olympiad students can participate as individuals and non- collaborative teams.



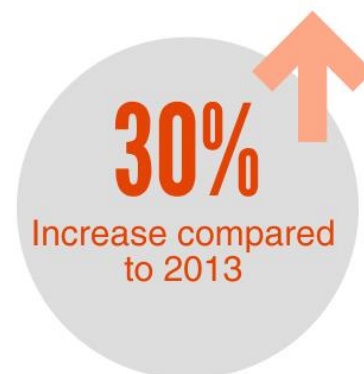
iSTEM Olympiad participants competed in the following areas





Integrated STEM Teacher Training

Rigorous changes in to many state's science curriculum have teachers and their students struggling to keep up. Teachers are now finding themselves needing to teach engineering and technology concepts. An overwhelming majority of teachers today did not receive adequate preparation to teach STEM concepts. According to the National Academy of Science, over two-thirds of teachers name science as the subject they wish had been given more emphasis during their pre-service training. Instructional leader's participation prepares them to develop their student's 21st Century knowledge and skills. Integrated STEM supports designing, testing, evaluation of products, problem-solving, creating solutions, and connecting school based curriculum to the real-world through practical application. An iSTEM certification provides evidence of teacher understanding of applying STEM content, pedagogical processes, collaborative teaching, and leadership experience. Teachers that participated in the training received a scholarship for their school to cover cost to participate in the CSTEM Challenge, valued at \$12,000.00, generously sponsored by corporations, organizations, colleges/universities, and individuals.



"The iSTEM Teacher Training provided me with great insight by experts in robotics, 3D printing, and geoscience. It was easy to understand and great to implement within my classroom."-C-STEM Teacher



Our Interns

We provide our interns with opportunities to learn and expand on what they've already learned in school. They get to work in a professional environment and expand their network.

19 Interns

- University of Houston-Main Campus
 - Rice University
 - University of Houston-Downtown
 - Texas Southern University
 - Lone Star College
 - Houston Community College
 - Massachusetts Institute of Technology
 - University of Texas-Austin
- Northwestern University
 - Carnegie Mellon University
 - Rutgers University
 - Pennsylvania State University
 - University of St. Thomas
 - Saint Agnes Academy
 - Hoover High School



"If there was one word I would use to describe C-STEM, it would be inspiring. C-STEM and Dr. Flowers has inspired me to take risks, continue my education, and never stop learning whether that is learning about myself or learning about web coding and design."

-Orlando Benitez

UNIVERSITY OF NORTH TEXAS C-STEM EVALUATION

The 2014 CSTEM Challenge which occurred on April 25-26 was analyzed by a team from the University of North Texas. The evaluators gathered information from student and teacher participants at the challenge. Their findings showed that C-STEM and the CSTEM Challenge nurture positive STEM dispositions.

83%

of students would like to participate in the CSTEM Challenge again.



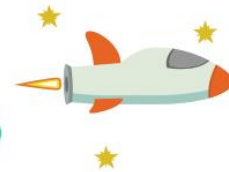
73%



of students would like a career in a STEM field.



29%



of them would like to pursue an engineering degree which is higher than the data previously gathered across five US states.



69%

of students said C-STEM is the only STEM opportunity they've had. This is important because they likely wouldn't have had an opportunity in this critical stage of their education to have a positive experience with STEM.



94%

of teachers would like their students to participate in the CSTEM Challenge the following year.



82%

of teachers effectively integrated C-STEM strategies into their classrooms.



THE WHITE HOUSE HONORS DR. FLOWERS

On February 26, 2014 Dr. Reagan Flowers was recognized as one of the *2014 White House STEM Access Champions of Change* Honorees. The program gives the White House an opportunity to honor those who empower and inspire individuals and communities.

“I am honored and humbled to receive such a prestigious award for the work we have done with STEM locally and throughout the country,” said Dr. Reagan Flowers. “This honor is beyond anything I could have imagined since we started doing our initial work with C-STEM in the janitor space at a middle school.”

The amazing growth C-STEM has had over the years and the thousands of students, educators, and communities that have been impacted are the main reason for her recognition from the White House. Dr. Flower’s vision, ambition, and leadership will continue to impact more people in the years to come.



WE THANK OUR BOARD MEMBERS FOR THEIR SUPPORT



Earl Cummings,
Chairman of the Board of the BTS Team



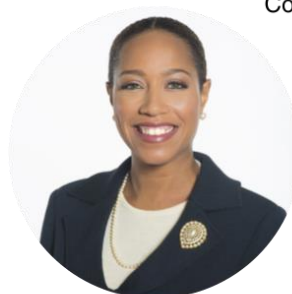
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Syalisa Winata,
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On behalf of everyone at C-STEM we THANK all of our partners and community champions.

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>\$25,000

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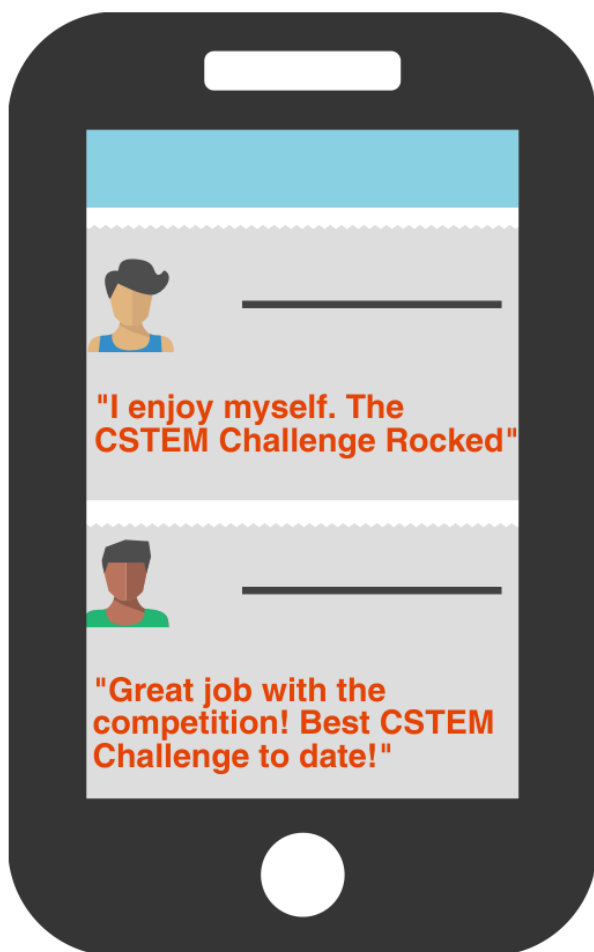
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Taylor Scherer
Toni Miller-Johnson
Wendell Scott
John Matthews
Vania Willms

Social Media Impact

4,591,678

Impressions

What are People Saying?



C-STEM Teacher and Student
Support Services

**310 New
Facebook Fans**

4,354
Interactions



@cstem.org
@DrReaganFlowers

**1,311 New Twitter
Followers**



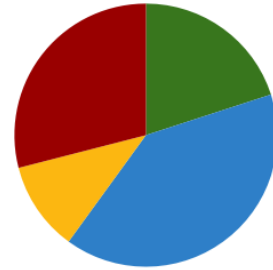
HALLIBURTON



Financials

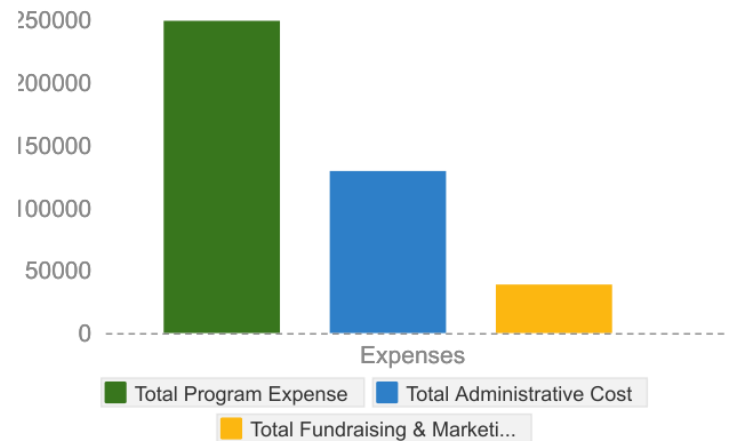
Individual Contribution	\$131,394
Business Contribution	\$255,762
Fees For Service	\$72,935
Awards	\$1,000
InKind Contributions	\$188,739
<hr/>	
Total Contributions	\$649,830

Contributions



■ Individual Contribution (20%)
 ■ Business Contribution (40%)
 ■ Fees for Service (11%)
 ■ InKind Contributions (29%)

Total Program Expense	\$249,293
Total Administrative Cost	\$129,374
Total Fundraising & Marketing Expense	\$38,733



The Future of C-STEM

As we look into the future we have started on projects for the upcoming year and have set goals for C-STEM that will help sustain our programs and have an even greater impact in communities we are working.

2015 Goals

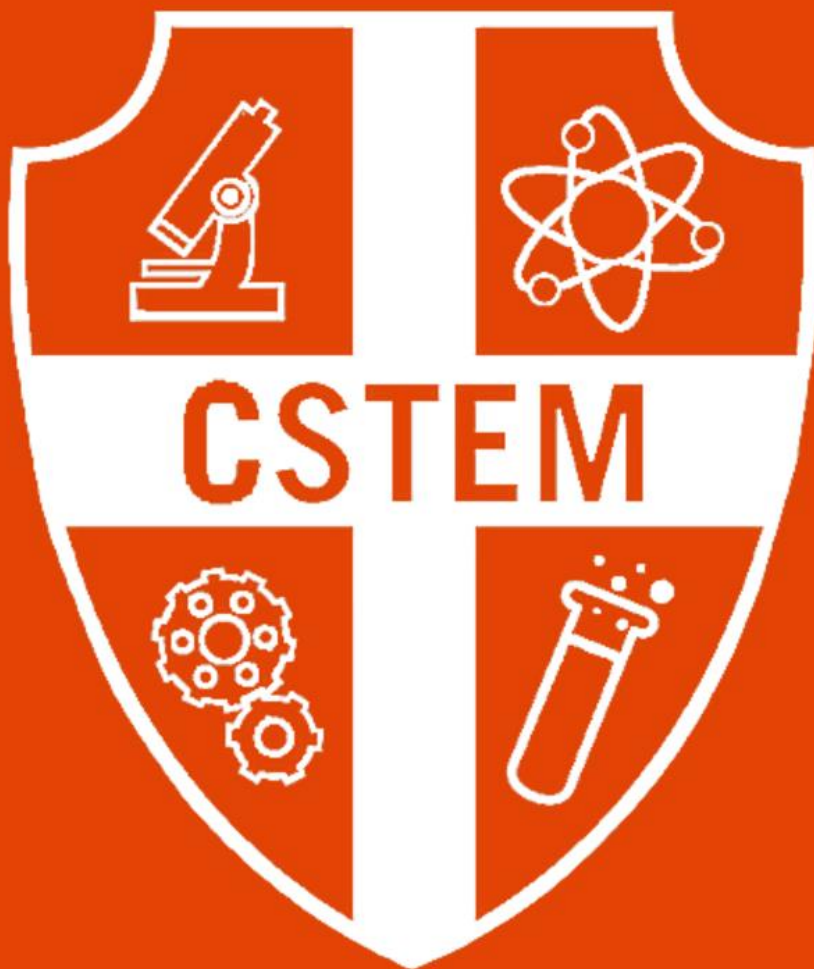
- We are currently developing a collaborative partnership with a group to create a Southeast STEM Festival that will take place alongside the CSTEM Challenge and iSTEM Olympiad.
- We will increase the number of teachers and students we impact by 30%.
- We will Increase the footprint of the iSTEM Olympiad to be more inclusive of private, suburban, and rural schools as well as organizations such as the Girl Scouts and Boy Scouts.
- We will broaden internship opportunities for high school and university/college students.
- We will expand our international partnerships through shared opportunities in the Middle East, Africa, Caribbean, and the United Kingdom.
- We will increase our program participant diversity numbers by 10%.
- We will have a 30% increase in our private/public and public/public partnerships.
- We will grow administratively with the addition of senior level managers.



“Providing Opportunities that Create Endless Possibilities”

www.cstem.org

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“Everyone is an Artist and an Engineer”



www.cstem.org



[@cstemorg](https://twitter.com/cstemorg)



C-STEM Teacher and Student Support Services, Inc.



C-STEM Challenge App

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