



**STEM BRIDGES HOUSTON**  
**YOUR PATHWAY TO COLLEGE**

**A 501(c)(3) Nonprofit Organization**

**At STEM Bridges Houston we are raising funds to promote our initiatives. Please join us by supporting our efforts to make a measurable difference in the lives of others.**

**Dr. Jacqueline D. Howard Carr**  
Founder and CEO

## Mission

STEM BRIDGES Houston is a nonprofit organization. Our mission is to expand access to higher education opportunities for underserved populations in the Houston community by offering free comprehensive college planning services and fundamental academic and social opportunities.



## Vision

The goal is for students to excel in their precollege performance, encourage them to pursue postsecondary degrees in STEM (science, technology, engineering and math), and ultimately seek careers in STEM professions.

## **STEM BRIDGES Houston Programs**

### **BRIDGES OUTREACH**

Bridges Outreach – Will provide outreach and assist individuals from underrepresented backgrounds who have the potential to succeed in higher education. The program conducts public workshops and provides academic, career and financial counseling. The program publicizes the availability of financial aid and assists with the postsecondary application process. Education or counseling services are designed to improve the financial and economic literacy of students and parents. The goal of this program is to help students understand the importance of receiving a postsecondary education while providing the necessary tools to become college ready.

### **SCHOLARS PROGRAM**

Scholars Program – Students must apply for the scholars program, which is specifically designed for a maximum of 50 students from groups that are traditionally underrepresented in postsecondary education. This program provides year-round counseling, mentoring, cultural enrichment, college tours, advisement, academic assistance and tutorials in mathematics, laboratory sciences, composition, literature, social sciences and foreign languages. Along with exposure to research projects in STEM, and student-conducted scientific research under the guidance of a faculty or graduate level mentor. During the summer, students complete intensive core grade level classes.

### **STEM OUTREACH AND ENGAGEMENT**

STEM Outreach and Engagement – Science, Technology, Engineering, and Mathematics (STEM) skills are required to be competitive in the global race for energy development, to create and maintain a healthy economy, and foster innovation and excellence. The program will offer opportunities focused on developing the next generation of STEM professionals. Activities and events will expose students grades 4-12 to various science, technology, engineering and math career fields.

### **MALE INITIATIVE**

Male Initiative – The vision of the Male Initiative program is to equip young men with tangible skills and knowledge that develop them into role models and leaders within their homes, communities and jobs. Activities will promote young men to become men of excellent work ethic and obtain a high moral character.

### ANGELS SOARING TO HIGHER HEIGHTS

Angels Soaring to Higher Heights – Our mission is to help young girls build self-esteem, develop leadership skills, and recognize the value of community service. Our program provides the opportunity for the girls involved to not only improve themselves but to also improve the world around them. An extensive curriculum includes life skills lessons, activities, and other resources to assist high school girls in mentoring girls in grades 5-8.

### PARENT STUDENT COMPACT

Parent Student Compact – Workshops, meetings and activities for parents to prepare for the high-school to college transition. Together they create a program where the relationship between the parent and the student could be strengthened by learning together. Students and parents in the Parent Student Compact become a team, working together to develop expectations, build potential, and create a plan for the child's future that includes college.

### ALUMNI ASSOCIATION

Provides an opportunity for former scholars to remain actively involved in the organization. The Alumni Association serves as a goodwill extension of STEM Bridges Houston and the members are available to mentor current scholars. The mission of the Alumni Association is to support the Scholars Program through the knowledge, skills, financial resources, and loyalty of its alumni.



ITEM	COST
<b>Personnel Salaries and Wages</b>	<b>TOTAL</b>
Director	\$ 51,600.00
<b>Total Monthly Personnel</b>	<b>\$ 51,600.00</b>
PT Academic Advisor	\$ 10,336.00
PT Educational Planner	\$ 9,120.00
PT Outreach Counselor	\$ 7,904.00
PT Administrative Assistant	\$ 8,400.00
PT Instructor - Testing Prep	\$ 1,260.00
Summer Instructional Staff	\$ 1,872.00
Summer Master Instructors	\$ 4,480.00
Math and Science Tutors	\$ 4,140.00
<b>Total Part Time Personnel</b>	<b>\$ 47,512.00</b>
<b>TOTAL PERSONNEL</b>	<b>\$ 99,112.00</b>
Benefits	\$ 11,868.00
<b>TOTAL BENEFITS</b>	<b>\$ 11,868.00</b>
Instructional Supplies	\$ 1,500.00
STEM Lab Supplies	\$ 3,000.00
Special Printing	\$ 500.00
Office Supplies	\$ 250.00
<b>TOTAL SUPPLIES</b>	<b>\$ 5,250.00</b>
Workshop Materials or Handouts	\$ 500.00
<b>TOTAL FOR BRIDGES OUTREACH</b>	<b>\$ 500.00</b>
Life Skills Female Event	\$ 1,695.00
Life Sills Male Event	\$ 702.00
<b>TOTAL FOR ANGELS SOARING &amp; MALE INITIATIVE</b>	<b>\$ 2,397.00</b>
Transportation for Summer Trip	\$ 4,500.00
Dorm Stay	\$ 9,000.00
Activities /Fees	\$ 1,250.00
Meals	\$ 4,200.00
<b>TOTAL SUMMER COLLEGE TOUR TRIP</b>	<b>\$ 18,950.00</b>
Saturday Session Meals	\$ 1,200.00
College Tour and Field Trips	\$ 6,960.00
<b>TOTAL FOR SCHOLARS PROGRAM</b>	<b>\$ 8,160.00</b>
Required Insurance	\$ 720.00
Facilities Rental	\$ 12,000.00
<b>TOTAL CONTRACTUAL SERVICES</b>	<b>\$ 12,720.00</b>
<b>TOTAL BUDGET</b>	<b>\$ 158,957.00</b>

**NEED FOR THE ORGANIZATION – Success in Previous Programs Directed by Dr. Howard Carr**

COHORT	COHORT TOTAL	GRADUATED FROM HIGH SCHOOL	BEGAN COLLEGE FALL SEMESTER AFTER HS GRAD	RECEIVED SCHOLARSHIPS	GRADUATED COLLEGE WITH STEM DEGREE	STILL ENROLLED IN COLLEGE
Class of 2010	2	2	2	1	1	0
Class of 2011	48	48	46	39	31	4
Class of 2012	1	1	1	1	1	0
Class of 2013	11	11	11	7	7	3
Class of 2014	11	11	10	7	2	5
Class of 2015	25	25	22	19	2	16
Class of 2016	20	20	19	12	4	14
Class of 2017	11	11	10	7	2	8
<b>TOTALS</b>	<b>129</b>	<b>129</b>	<b>121</b>	<b>93</b>	<b>50</b>	<b>50</b>
		100%	94%	72%	67%	
<b>TOTAL STUDENTS THAT GRADUATED HIGH SCHOOL WITH A 2 YEAR ASSOCIATES DEGREE</b>						<b>10</b>
<b>TOTAL STUDENTS THAT HAKE TAKE A DUAL CREDIT CLASS</b>						<b>74</b>
<b>GRADUATING SENIORS THAT RECEIVED SCHOLARSHIPS TO HELP FUND THEIR POST-SECONDARY EDUCATION</b>						<b>72%</b>
<b>TOTAL STUDENTS THAT HAVE GRADUATED OR ON TRACK TO GRADAUTE WITH POST-SECONDARY DEGREE IN 6 YEARS AFTER HIGH SCHOOL GRADAUTION</b>						<b>80%</b>

**State Funding in Our Schools:**

Texas reduced the state allocation of school districts by more than 5 billion dollars during the recession, but only a meager increase in funding followed the recovery. This has created a serious problem in science classes. Students have much less access to equipment and teachers. The result has been a higher ratio of students to teachers. According to a state publication published in March 18, 2015, Texas ranked 38<sup>th</sup> in the nation in educational operations costs despite a surge in property tax revenue occurring in the recovering economy. The per student expenditure rate falls \$1,896 below the state average and \$4,586 below the national average per student expenditure.

**Dropout Rates:**

The dropout rates for the schools are very high. The National Center for Education Statistics, 2015, reported the dropout rate for the nation as 7%. The total Harris county schools’ dropout rate is 11.6% above the U.S. average at 18.6%.

**Student to Counselor:**

As the population growth in Houston continues to rise, so does school enrollment. The American Counseling Association recommended a ratio of 250:1 student to counselor in 2011. Since Texas does not track activity of counselors in schools, they were a natural target for the budget cuts during the recession. Target school levels of 418:1 students to counselors makes it challenging for guidance counselors to spend the requisite time to provide thoughtful input and answer questions, while continuing to guide students to enroll in college and complete a program of study.

**STEM BRIDGES HOUSTON – TIMELINE FOR PROGRAMS**

<b>Activity</b>
<b>Ongoing Throughout the Year</b>
College Preparation Workshops STEM Classes and Activities Tutorial Sessions Testing Preparation Classes STEM Competitions and Presentations Alumni Mentorship Program Monthly Assessments and Individual Performance Review Field trips, College Visits Scholarship Essay and Application and Review Parents Involvement and Workshops
<b>October</b>
Parent and Student College Admissions Workshops Parent and Student Federal Financial Aid Application Completion Financial Literacy Workshop Hispanic Heritage Month Event
<b>November</b>

<p>Civic Engagement and Community Service</p> <p>Parent and Student College Admissions Workshops</p> <p>Annual Non-Profit Board Meeting</p>
<b>December</b>
<p>Cultural Diversity Alumni and Family Potluck</p> <p>Alumni Mentorship Event</p> <p>Parent and Student College Admissions Workshops</p>
<b>January</b>
<p>Semester Honor Roll Event</p> <p>Semester Review of Individual Plan of Study</p>
<b>February</b>
<p>Science and Engineering Fair of Houston</p>
<b>March</b>
<p>Dual Credit and Early College Information Session and Enrollment</p> <p>Male Initiative and Angeles Soaring to Higher Heights Leadership Conference</p> <p>Engineer Career Day</p>
<b>April</b>
<p>Health Professions Career Day</p> <p>Finals Prep Workshops</p> <p>National College Signing Day Event</p>



<b>May</b>
STEM BRIDGES Houston Scholars Program Graduation and Awards Ceremony Student and Parent Annual Review
<b>June</b>
Summer Internships Summer Heads Up Scholars Program
<b>July</b>
College Tour Trip Senior Trip



February 1, 2018

Dear Potential Sponsor,

STEM BRIDGES Houston is a 501(c)(3) nonprofit organization. Our mission is to expand access to higher education opportunities for underserved populations in the Houston community by offering free comprehensive college planning services and fundamental academic and social opportunities. Our students are primarily first generation and/or low income but have a great desire to pursue a post-secondary degree. As the odds cumulate against them with deficient resources in our public schools, our nonprofit organization and staff serves as a beacon of hope for many students and families. The goals are for students to excel in their precollege performance, encourage them to pursue postsecondary degrees in STEM (science, technology, engineering and math), and ultimately seek careers in STEM professions.

Please join us by supporting our efforts to make a measurable difference in the lives of others. With the assistance of external funding, a committed staff and determined students STEM BRIDGES Houston will continue to impact our community and mold the future STEM leaders of tomorrow. It is our hope that you will consider providing your financial support, so we can continue to provide opportunities and scholarships to ensure student success.

All donations are tax deductible and can be mailed to STEM BRIDGES Houston 6942 FM 1960 East #197 Humble, Texas 77346 or donated online at [www.stembridgeshouston.com](http://www.stembridgeshouston.com)

Thank you for your assistance and partnership to improve our community!

Sincerely,

A handwritten signature in black ink, appearing to read "Dr. Jacqueline Howard Carr". The signature is fluid and cursive, with a large initial "J" and "H".

Dr. Jacqueline Howard Carr  
Founder and CEO