2017
ANNUAL REPORT
Since 1976, we’ve grown from a small group of community leaders to a non-profit with a statewide reach. Mile by mile, day by day, TAME programs reach across the geographic, cultural, socioeconomic and digital divides that separate our young people from bright futures in STEM. The work we do today with students shapes what our communities, our industries and our planet (or planets!) will look like in 2056.

How does a small non-profit make an impact in a state as big as Texas? Like engineers, we start with the infrastructure.

The strong TAME network of industry, academic and community partners helps deliver targeted, relevant and up-to-the-minute programming to communities from the Gulf to the Panhandle.

Join us as we celebrate, inspire, and prepare the next generation of Texas innovators.

Savita Raj
Executive Director
# TABLE of CONTENTS

## SECTION 1: Who we are
- Mission & Vision ................................................................. 4
- A Letter from the Board Chair ........................................... 5

## SECTION 2: Where we work
- Chapters .................................................................................. 6–7

## SECTION 3: What we do
- Inspire + Prepare ...................................................................... 8
- Program Statistics ................................................................. 9
- Programs Overview ............................................................ 10–11
- Comics .................................................................................... 12
- Trailblazer ............................................................................ 13
- Clubs ....................................................................................... 14
- Competitions ......................................................................... 15
- Scholarships ......................................................................... 16

## SECTION 4: Making it work
- Financials ................................................................................ 17
- Board of Directors ............................................................... 18
- Donors & Partners ............................................................... 19
SECTION 1: Who we are

Our MISSION:

To enable Texas students to pursue careers in Science, Technology, Engineering and Math (STEM) by:

• Creating partnerships among educators, industry, government and families to inform, educate and motivate students
• Implementing classroom and extracurricular programs and activities
• Focusing on populations that remain underrepresented in fields of STEM
• Promoting diversity in STEM careers

Our VISION:

Every K-12 student has the educational experiences necessary to pursue a career in the fields of science, technology, engineering and math.

Let’s build a workforce that looks like Texas.
This is a particularly exciting time to be on the TAME Board. This past year we celebrated the success of our great organization with 40th anniversary celebrations across the state. I want to recognize the excellent work of all of the people involved. Our teachers, librarians, and volunteers are tireless in their efforts to communicate the excitement of STEM to young people. Thanks to the dedication of many individuals, our corporate and academic partnerships are stronger than ever. I also want to recognize the work of the TAME Advisory Board and Board of Directors. We would not reach the number of students that we do, and succeed in our efforts to build a strong, diverse STEM workforce without the hard work and dedication of everyone involved.

Executive Director Savita Raj and her staff do a tremendous job every day, juggling countless details to deliver TAME’s programs to students across the state. Under Savita’s leadership, TAME is expanding and reaching more people than ever before. Last year, we had a record number of students enrolled in TAME clubs and a record number of students (45,306) participated in TAME programs and activities.

The need for a strong STEM workforce is greater than ever. We already see 100% of high school seniors at our annual STEM Competitions planning to attend college, with about 80% of them entering STEM fields. Going forward, I hope to see the number of STEM-bound students rise.

40 years in, we still have a lot of work to do to increase the number of females and under-represented minorities in STEM fields – but it’s great to be a part of that work. If you are already a supporter of TAME, I thank you. If you’re not yet a supporter, I’d like to welcome you aboard. With your help, Texas kids will be the future of STEM.

PATRICIA A. GORE
Chair, TAME Board of Directors
SECTION 2: Where we work

TAME CHAPTERS
**TAME Chapters** provide local leadership and support for STEM education. Chapters, which correspond to the regions defined by the Texas Education Agency, bring together volunteers from local schools, colleges, universities, corporations, businesses, and community organizations into a leadership team. They offer locally relevant programs like career days, factory tours, and professional development for teachers.

### TABLE: TAME Chapters

<table>
<thead>
<tr>
<th>TEA REGION</th>
<th>CHAPTER</th>
<th>CHAIR(S)</th>
<th>STUDENTS SERVED 2016–17</th>
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<tr>
<td>1</td>
<td>Valley</td>
<td>Nelinda Villarreal</td>
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<td>2</td>
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<td>366</td>
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<td>3</td>
<td>Victoria</td>
<td></td>
<td>414</td>
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<tr>
<td>4</td>
<td>GC TAME</td>
<td>Dan Burleson</td>
<td>18710</td>
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<tr>
<td>5</td>
<td>GT TAME</td>
<td>Annie Carter</td>
<td>2997</td>
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<td>6</td>
<td>Huntsville</td>
<td></td>
<td>218</td>
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<tr>
<td>7</td>
<td>East Texas</td>
<td>Cynthia Nyvall</td>
<td>1833</td>
</tr>
<tr>
<td>8</td>
<td>Mount Pleasant</td>
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<td>495</td>
</tr>
<tr>
<td>9</td>
<td>Wichita Falls</td>
<td>Denise Simmons, Marcie Williford</td>
<td>1485</td>
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<tr>
<td>10</td>
<td>Dallas</td>
<td>Maurine Amend</td>
<td>1424</td>
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<td>11</td>
<td>Fort Worth</td>
<td>Eva Trevino, Steve De Leon</td>
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<td>12</td>
<td>Waco</td>
<td></td>
<td>377</td>
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<td>13</td>
<td>Capital Area</td>
<td>TAME Staff</td>
<td>3862</td>
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<td>14</td>
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<td>15</td>
<td>San Angelo</td>
<td>Janice Trees</td>
<td>1999</td>
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<td>16</td>
<td>Amarillo</td>
<td>Dominic Cortez, Floyd Anthony</td>
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<tr>
<td>17</td>
<td>Lubbock</td>
<td>Kasaundra Garcia</td>
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<tr>
<td>18</td>
<td>West Texas</td>
<td>Kim McKay</td>
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<td>19</td>
<td>El Paso</td>
<td>Raquel Kuker</td>
<td>212</td>
</tr>
<tr>
<td>20</td>
<td>San Antonio</td>
<td>Valarie Walker</td>
<td>2430</td>
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</table>
... we envision a two-pronged strategy for transforming K–12 education.*

**WHAT we DO**

We must **inspire** students so that all are motivated to study STEM subjects in school and many are excited about the prospect of having careers in STEM fields.

We must **prepare** students so they have a strong foundation in STEM subjects and are able to use this knowledge in their personal and professional lives.

“I LEARNED ALL KINDS OF COOL STUFF ON THE TRAILBLAZER AND WANT TO CHANGE THE WORLD ONE DAY.”

*Report, The President’s Council of Advisors on Science and Technology, September 2010
nsf.gov/attachments/17803/public/2a--Prepare_and_Inspire--PCAST.pdf
TAME PROGRAMS: 2016–17

45,306 students

inspire 25,481 + prepare 19,825

inspiring

Comics: 2,270
Trailblazer @ Community Events: 15,732
Trailblazer @ STEM Camps: 361
Trailblazer @ STEM Events: 3,060
Trailblazer @ Science Rocks (Libraries): 4,058

preparing

Trailblazer @ Schools: 17,055
Multi-week Family STEM Events: 166
TAME Clubs: 2,770
Divisional & State STEM Competitions: 2,361
Scholarships & Mentoring: 24

OVERALL PARTICIPATION STATISTICS:

GENDER

Female: 50%
Male: 49%
Unreported: 1%

ETHNICITY

Hispanic: 40%
Caucasian: 38%
African American: 14%
Asian/Pacific Islander: 6%
Other: 2%
PROGRAMS

Start with a great story:
TAME SCIENCE SQUAD™ COMIC BOOKS
  » Adventures of five ethnically diverse student superheroes
  » Professionally produced series in English and Spanish

STEM saves the day!
(Elementary School, Inspire)

Get their hands on it:
TAME TRAILBLAZERS
  » STEM–museums–on–wheels visiting schools, libraries and community events
  » 5 exciting, hands-on exhibit areas
  » Fun introduction to STEM concepts, electives, and career paths with local STEM professionals

STEM field trip comes to you!
(Elementary/Middle School, Inspire & Prepare)

Bring in the family:
FAMILY STEM EVENTS
  » Family and community–focused activities
  » Partnership with local STEM program providers
  » Increase awareness of STEM careers

STEM in the community!
(Elementary/Middle School, Inspire)
**Take time to explore:**
**TAME CLUBS**

» Deeper skill building and problem solving activities
» Peer network of students
» Strong network of STEM educators

*Hands on STEM!*
(Middle/High School, Prepare)

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**Celebrate learning:**
**DIVISIONAL & STATE STEM COMPETITIONS**

» Individual math and science tests
» Collaborative, group engineering design challenges
» Computational thinking

*Showcase STEM Skills!*
(Middle/High School, Prepare)

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**See them through:**
**TAME SCHOLARSHIPS & MENTORING**

» Financial boost and encouragement
» Support students in the critical first year of college

*STEM Careers take off!*
(High School/College, Prepare)
The TAME Science Squad™ Comic Books are a professionally produced series showcasing the adventures of five ethnically diverse TAME students who use their abilities in math and science to save the day. The comics are available in English and Spanish.
The TAME Trailblazers are unique, interactive classrooms traveling to schools and communities across Texas to bring hands-on science to students. With curated content from NASA, NOAA and the National Energy Discovery Project, the Trailblazers offer hands-on activities and exhibits that allow students to explore concepts of energy, space, weather, biotechnology, and aerodynamics. The Trailblazers anchor Family STEM Events, Science Rocks summer reading events at libraries and large public events like the Super Bowl.

Family STEM Events encourage participants to explore STEM concepts, learn about STEM careers, and interact with STEM professionals in an informal learning setting. These events are designed to strengthen family awareness of and support for their students' involvement in STEM.

Science Rocks Library Programs are offered in the summer, typically in conjunction with reading programs. A visit from the TAME Trailblazer, training and toolkits help library staff offer informal STEM programs in their community.

**TRAILBLAZERS**

**SECTION 3: What we do**

**Community Events:** 35  
**School Events:** 118  
**Science Rocks Events:** 39  
**STEM Camp Events:** 5  
**Family STEM Events:** 19  

**TOTAL VISITS:** 216  
**TOTAL STUDENT VISITORS:** 39,299  
**Title I Schools visited:** 100
SECTION 3: What we do

TAME CLUBS

A TAME Club is an enrichment program designed to support students interested in exploring STEM subjects with the guidance of sponsors and leaders. While all TAME programs are inclusive, TAME Clubs focus on recruiting women and underrepresented minority students. The clubs are typically sponsored by teachers or community partners and are usually hosted on a school campus. Clubs meet regularly and program activities are designed to increase student skills, awareness of STEM careers and access to role models.

Number of clubs: 174
Title I schools: 75
Club members: 2,770
STEM COMPETITIONS

TAME Club members in grades 6–12, from all across Texas, compete in math & science tests, and in solving real-world engineering design challenges.

99% of High School seniors at the STEM Competitions plan to go to college

77% plan to major in STEM | 48% in engineering

“I LOVED DOING THE ENGINEERING CHALLENGE. SO FUN! YOU GOT TO MEET NEW PEOPLE AND HAVE SOME FUN BUILDING SOMETHING NEW.”

GENDER

Female: 36%
Male: 44%

ETHNICITY

Hispanic: 43%
Caucasian: 25%
Asian/Pacific Islander: 20%
African American: 11%
TAME supports careers in science, technology, engineering, and mathematics by offering scholarships to TAME Club members who have been accepted into an accredited university or community college to pursue higher education in a STEM-related field.

<table>
<thead>
<tr>
<th>NAME</th>
<th>MAJOR</th>
<th>COLLEGE</th>
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<tbody>
<tr>
<td>Andrea Orji</td>
<td>Chemical Engineering</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Anthony Teeter</td>
<td>Business Administration and Architecture</td>
<td>Vernon College</td>
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<tr>
<td>Austin Warren</td>
<td>Civil Engineering</td>
<td>University of Texas at Austin</td>
</tr>
<tr>
<td>Christopher Warren</td>
<td>Computer Science</td>
<td>University of Texas at Austin</td>
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<td>Connor Bachert</td>
<td>Computer Science</td>
<td>Midwestern State University</td>
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<tr>
<td>Jagadesh Lagisetti</td>
<td>Computer Science</td>
<td>Texas A&amp;M University</td>
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<tr>
<td>Jared Cervantez</td>
<td>Engineering</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Jeffry Martin</td>
<td>Finance and Accounting</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Mitchell McDonald</td>
<td>Mechanical Engineering</td>
<td>Texas A&amp;M University</td>
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<tr>
<td>Mostak Ahmed</td>
<td>Computer Engineering</td>
<td>Texas A&amp;M University</td>
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<td>Mya Soto</td>
<td>Computer Science</td>
<td>University of Texas Permian Basin</td>
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<td>Oscar Martinez</td>
<td>Industrial Engineering</td>
<td>St. Mary's University</td>
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<tr>
<td>Payton Fisher</td>
<td>Computer Science</td>
<td>Midwestern State University</td>
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<tr>
<td>Robert &quot;Zeke&quot; Kollman</td>
<td>Nuclear Engineering</td>
<td>Texas A&amp;M University</td>
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<tr>
<td>Tashiana Shipman</td>
<td>Science</td>
<td>Odessa College</td>
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<tr>
<td>Tray Dickson</td>
<td>Architecture</td>
<td>Texas Tech University</td>
</tr>
<tr>
<td>Trista Gerner</td>
<td>Civil Engineering and Architecture</td>
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</tr>
<tr>
<td>Xiangwei Chen</td>
<td>Computer Science</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Natalie Sahagun</td>
<td>Aerospace Engineering</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Nicholas Curtis</td>
<td>Chemical Engineering</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Shaharyar Ali</td>
<td>Mechanical Engineering</td>
<td>University of Texas at Austin</td>
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# Financials: 2016–17

## Revenue

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<th>Source</th>
<th>Amount</th>
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<td>Grants &amp; Contributions</td>
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<td>Program Revenues</td>
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<td>Other Income</td>
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<td><strong>Total</strong></td>
<td><strong>$813,438.00</strong></td>
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## Expenses

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<td>Administration</td>
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<td>Fundraising</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$848,413.00</strong></td>
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# BOARD of DIRECTORS

<table>
<thead>
<tr>
<th>BOARD MEMBER</th>
<th>EMPLOYER</th>
<th>POSITION</th>
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<tbody>
<tr>
<td>Tricia Gore</td>
<td>University of Texas at Austin (Retd.)</td>
<td>Chair</td>
</tr>
<tr>
<td>Andy Deck</td>
<td>National Instruments</td>
<td>Past Chair</td>
</tr>
<tr>
<td>Deb Dorman</td>
<td>IBM</td>
<td>Secretary</td>
</tr>
<tr>
<td>Tamara Crawford</td>
<td>Lockheed Martin</td>
<td>Treasurer</td>
</tr>
<tr>
<td>Mike Alvarez</td>
<td>Shell</td>
<td>Member</td>
</tr>
<tr>
<td>Laura Bosworth-Bucher</td>
<td>TeVido BioDevices</td>
<td>Member</td>
</tr>
<tr>
<td>Grant Butkus</td>
<td>Macquarie Capital</td>
<td>Member</td>
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<tr>
<td>Tramaine Chargois Singleton</td>
<td>Halliburton</td>
<td>Member</td>
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<tr>
<td>Dominic Cortez</td>
<td>B&amp;W Pantex</td>
<td>Regional Representative</td>
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<tr>
<td>Steve De Leon</td>
<td>Lockheed Martin (Retd.)</td>
<td>Regional Representative</td>
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<tr>
<td>Steve Gonzales</td>
<td>Vickrey &amp; Associates</td>
<td>Member</td>
</tr>
<tr>
<td>Britany Hayes</td>
<td>ConocoPhillips</td>
<td>Member</td>
</tr>
<tr>
<td>Deborah Kariuki</td>
<td>Round Rock ISD</td>
<td>Teacher Representative</td>
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<tr>
<td>Jeff Lacy</td>
<td>Trinity University</td>
<td>Member</td>
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<tr>
<td>Aaron Maestas</td>
<td>Raytheon Corporation</td>
<td>Member</td>
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<tr>
<td>Michele Meyer</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Karl Nichols</td>
<td>E3 Alliance</td>
<td>Member</td>
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<tr>
<td>Ifeanyi Okonkwor</td>
<td>BASF</td>
<td>Member</td>
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<tr>
<td>Marcos Villarreal</td>
<td>University of Texas Rio Grande Valley</td>
<td>Member</td>
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## ADVISORY BOARD

- Annie Carter // *Chevron Phillips (Retd.)*
- Cres Guzman // *Texas Civil Engineering Foundation*
- Bridget Lauderdale // *Lockheed Martin*
- Stu Mussler // *ConocoPhillips*
- Pat Rossman // *BASF*
DONORS

PLATINUM: 50K+
Boeing
ConocoPhillips
Halliburton
Shell Oil Company

DIAMOND: 25 - 50K
Alcoa Foundation
Chevron Phillips
Chevron Phillips Chemical Company
Lockheed Martin
Raytheon
Tocker Foundation

GOLD: 15 - 25K
3M Foundation
Arconic Foundation
Workforce Solutions of West Central Texas

SILVER: 10 - 15K
Concho Valley Workforce
GM Foundation
IBM
Marathon Oil Company
Port Arthur Industrial Group

BRONZE: 5 - 10K
BASF
Dow Chemical Company
Emerson Process Management
McCoy Foundation
Pratt and Whitney Canada Corp
Steve and Mary De Leon

FRIENDS OF TAME
Amazon Smile Foundation
Andy Deck
Annie Carter
BP America Inc.
Brian Rogers
Bridget Lauderdale
Bright Futures Fair
Cheniere Energy Inc.
Clinton Blackburn
Evette Torres
Flint Hills Resources
Foster CM Group, Inc.
Halliburton
Jeff Lacy
Jessie Temple
Kathy & Bob Zerda
Laura Bosworth
Leslie Diamond
Marathon Oil Company
Motiva Enterprises
National Instruments
Oxbow
Paypal Giving Fund
Port Arthur Housing Authority
Region VI Educational Service Center
Sam Zigrossi
Samsung Semiconductor
Sarah Griffin
Sharon Renee Brummet
The Lexington Foundation
The Sundt Foundation
TOTAL
Tracy Cuington
Tramaine Singleton
Tricia Gore
Valero
Veolia
Wayman Smith
Wood Group USA, Inc.

PARTNERS

SCHOOL DISTRICTS
Alamo Heights ISD
Alvin ISD
Amelia Elementary School
Cactus Ranch Elementary
Crosby ISD
Deep Wood Elementary
Galveston ISD
George West ISD
Hitchcock ISD
Hutto ISD
Lake Travis ISD
Navarro ISD
Rankin ISD
Snyder ISD
Wimberley ISD

COMMUNITY PARTNERS
Albertsons
City of Denison
Denton Public Library
George Memorial Library
Houston Hispanic Forum
Port Arthur Housing Authority
Port Arthur Public Library
Rankin Hospital District
Shepherds of Journey IFC
Texas ASCE
Texas Board of Professional Engineers

UNIVERSITIES
Angelo State University
Jones County Junior College Foundation
Lamar University
LaTourneau University
Midland College
Odessa College
St. Philip's College
Tarrant County Community College
Texas A&M International University
Texas A&M University
Texas Tech University
The University of Texas - Permian Basin
The University of Texas - Rio Grande Valley
The University of Texas at Austin
University of Houston
SEE WHERE A LITTLE INSPIRATION CAN TAKE YOU!

Facebook.com/TAMESTEM
Pinterest.com/TAME_STEM
@TAME_STEM #LONESTARSTEM