IMPACT REPORT
BUILDING BELONGING IN STEM
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Letter from the Executive Director

I am delighted to share with you our 2023 Impact Report, a testament to the collective efforts and shared labor that has shaped Tulsa Regional STEM Alliance into a force within our community.

We understand that the foundation of a robust STEM ecosystem lies in providing exceptional experiences both inside and outside the classroom. Whether through school programs, extracurricular activities, mentorship, or competitive settings, our commitment remains unwavering — to inspire and prepare all students for a STEM-enabled future.

The heart of our success lies in collaboration — with families, providers, educators, and partners. I find profound meaning in the concept of co-labor, an endeavor that allows us to shape possibilities for our youth. It’s this patient and persistent work, building block by building block, that brings about lasting change.

Reflecting on our roots in Oklahoma, where labor is encapsulated in the state motto “labor omnia vincit” — work conquers all — I am reminded that labor is not just about hard work; it is about shared work. It is about understanding each other and the environments in which our work unfolds.

If you’ll allow a small physics lesson to set up my metaphor... the measure of work (W) is a product of force (F) and displacement (s, change in location distance). Force is the product of mass (m) and acceleration (a, change in speed over time). To do work in the physical world, we have the formula, $W = F \cdot s = (m \cdot a) \cdot s$.

Tulsa Regional STEM Alliance stands as a collective force in our community, a testament to what can be achieved when we combine our efforts. Together, we possess mass (a sense of unity, belonging, and purpose), enabling us to accelerate change in access, opportunity, and quality within the STEM landscape. Our shared impact takes our community to new places, displacing us from where we once were to where we want to be. We are putting in the work (W) that matters in the community!

Our small and mighty team here at TRSA is fortified by the strength of our relationships and partnerships across our community. As you review our 2023 Impact Report, I trust you will notice the remarkable achievements our Alliance has made together. Every accomplishment is a result of our shared commitment to the labor that builds the STEM ecosystem, piece by piece.

Thank you for your unwavering dedication and hard work throughout 2023. Your contribution is invaluable as we continue constructing a STEM ecosystem that benefits all. I am grateful for your partnership and look forward to the continued success we will achieve together.

Levi Patrick
Executive Director
Impact at a Glance

Our Mission
Cultivate impactful partnerships and learning pathways that inspire and prepare all youth for a STEM-enabled future.

Our Vision
We envision a thriving, collaborative, and inclusive community powered by a STEM-capable ecosystem.

All Stacked Up
To achieve our bold and crucial mission, we must collaborate and convene with diverse community partners, including formal and informal education institutions, businesses, community organizations, and government. This collaborative effort, involving 300 entities and over 400 volunteers, has been instrumental in achieving these goals.

Through 78 unique events and collaborations, we have empowered 921 educators with professional development and facilitated over 1,000 hours of mentoring through Me & My Math Mentor. The support from an exceptionally generous funding community has enabled us to grant over $300,000, directly benefiting schools and education nonprofits, and fostering accessible STEM experiences throughout Oklahoma, thereby shaping the future of education.

With a steadfast commitment to our strategic plan, we, as an Alliance, have cultivated over 200,000 impactful STEM experiences while meeting 33% of our 5-year goals. Explore the following pages to learn more about our initiatives and how we’re building belonging in STEM.

- 206,899 Student experiences
- $320,267 Grants awarded
- 1,063 Hours of mentoring
- 921 Educators served
- 78 Unique events
- 427 Volunteers
- 300 Community collaborators

3 | IMPACT AT A GLANCE
STEM is Everywhere

From Metro to Beyond: A View of our Collaborative Reach

Though our name bears 'Tulsa,' our impact stretches statewide. We engage classrooms and out-of-school programs and partner with diverse entities—businesses, communities, government, and tribes—to ensure every student gains access to stellar STEM experiences, preparing and inspiring them for the future. Notably, more than 1/3 of our collaborators are based outside of the Tulsa metro area.

300 Collaborators
59% in the Tulsa Metro area
69 School Districts
**BUILDING BELONGING in Youth**

Over the past year, we have empowered youth through engaging STEM competitions and mentoring, fostering a sense of belonging and nurturing a strong STEM identity.

Through hands-on challenges, we built a supportive, inclusive community. Our mentorship approach guided and inspired future scientists and engineers, resulting in a diverse cohort of young individuals excelling in STEM and empowering them to identify with the broader scientific community.

You can learn more about three of our largest and longest-running projects below, and our Me & My Math Mentor project on the following pages.

### PROJECTS | DETAILS | OUTCOME
--- | --- | ---
SeaPearch Competition | Underwater robotics competition for K-12 students | 8 out of 16 of the participating teams hailed from rural public schools in Oklahoma and Arkansas.  
Sonia Kovalevsky Day | Women in STEM event focused on math & STEM identity | Based on pre-and post-surveys, participants interested in pursuing a STEM career increased from 28.4% to 57.8%.  
Siegfried Space Week | Field trips and community events with an astronaut | Student perceptions of confidence and STEM identity (believing they are a STEM person) increased from 28.5% to 51.3%.

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You can learn more about three of our largest and longest-running projects below, and our Me & My Math Mentor project on the following pages.
PROJECTS
9,245
youth engaged through TRSA-hosted family nights, competitions, and college and career readiness projects

MENTORSHIP
2,125
youth engaged in mentorship projects with caring adults working on STEM skills and social-emotional development

OUTREACH
5,738
estimated youth reached through community events and partner projects

STEM IN A BAG
15,855
student experiences through STEM kits distributed to families, classrooms, and out-of-school time groups

resulting in 32,963 student experiences
Project Spotlight:
Me & My Math Mentor

Me & My Math Mentor, a mathematics tutoring project, instills joy and a sense of mathematical confidence in 3rd-grade students in Tulsa and Union Public Schools.

In 2023, this project engaged 94 volunteers who collectively contributed 1,063 hours to mentoring. Meaningful interactions with adult mentors enhance math skills and foster a strong sense of belonging in STEM. By prioritizing hands-on activities and play, students reinforce skills learned in the classroom, promoting academic achievement and a sustained interest in STEM.

Overall, student self-perceptions about STEM abilities increased by 21%, and their overall sense of joy while participating in STEM experiences increased by 25%!

In the 2022-2023 academic year, we surveyed 249 participants before and after the program to track changes in their STEM enthusiasm and perceptions, assessing their responses with a Likert scale, and unveiling a significant impact on youth’s STEM identity and engagement.

Building STEM engagement & identity

In the 2022-2023 academic year, we surveyed 249 participants before and after the program to track changes in their STEM enthusiasm and perceptions, assessing their responses with a Likert scale, and unveiling a significant impact on youth’s STEM identity and engagement.
Partner Spotlight:
Koch Engineered Solutions

For over two years, Koch Engineered Solutions (KES) has forged a remarkable partnership with Ellen Ochoa Elementary School. This collaboration, initiated by KES partnering with our Me & My Math Mentor program, has been instrumental in enriching the school’s STEM initiatives and fostering impactful student experiences.

By providing financial support, mentorship opportunities, and access to advanced technologies, KES has ignited an enthusiasm for STEM education, empowering students to excel not only in their mathematical pursuits but also in life.

Partner Spotlight:
Team Circuit Breakers, Memorial Middle School

Embracing the competitive spirit of STEM, Memorial Middle School’s SeaPerch underwater robotics teams — Circuit Breakers 1 & 2, under the dedicated guidance of Coach Abraham Kamara — triumph regionally, securing top spots and advancing to international competitions. Their journey epitomizes dedication, innovation, and resilience, inspiring future STEM leaders. Coach Kamara’s approach fosters hands-on learning and empowers students to take ownership of their projects. Their success underscores the transformative impact of STEM engagement, motivating youth to pursue engineering careers and tackle real-world challenges.
Elevating STEM education through tailored professional development, curriculum, and resources enhances educator confidence while cultivating a profound sense of belonging.

Our offerings not only boost competence but also cultivate an empowered, connected community raising teaching standards while fostering inclusivity. Along with strategic grants and support, we saved schools and organizations over $500,000 in 2023; allowing funds to be reallocated toward enhancing STEM programs and expanding educational opportunities.

You can learn more about some of our most impactful educator opportunities below.

<table>
<thead>
<tr>
<th>PROJECTS</th>
<th>DETAILS</th>
<th>OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenSciEd Elementary Field Test</td>
<td>Statewide development of free, high-quality elementary science curriculum</td>
<td>100% agreed it facilitated addressing local phenomena and connecting with student identities, experiences, backgrounds, and interests.</td>
</tr>
<tr>
<td>SENSEsational Science PD</td>
<td>K-12 teachers engage in hands-on science lesson exploration with community partners</td>
<td>The percentage of confident STEM teachers rose from 18.6% to 65.1% after the program.</td>
</tr>
<tr>
<td>Exponential Growth Math PD</td>
<td>Year-long, growth mindset approach to mathematics for teachers and coordinators</td>
<td>The percentage of confident STEM teachers rose from 4.7% to 58.1% after the program.</td>
</tr>
</tbody>
</table>

Build Belonging in Educators
43 unique professional development experiences

437 hours of professional learning opportunities

921 formal and informal educators from across the state

6,202 hours of hands-on learning for educators

90,360 student experiences
Led by Dorinda Risenhoover, the NASA Oklahoma Space Grant Consortium’s STEM Engagement Center (OKSG SEC) pioneers STEM belonging with innovative programs and outreach. By connecting educators with NASA resources like curriculum materials and professional development, the OKSG SEC empowers them to inspire future STEM leaders. It also prioritizes amplifying underrepresented voices in STEM, fostering inclusivity. The OKSG SEC drives STEM equity through strategic partnerships and initiatives, hosting workshops and highlighting diverse role models to create a more inclusive STEM community.

Over the past three years, our STEM Experience Playbook has been a trusted resource for formal and informal educators across Oklahoma. Each activity is meticulously crafted with insights into target ages, adaptable ranges, and estimated costs per student, ensuring accessibility for all. Dive into a diverse array of activities tailored to captivate learners and ignite a passion for STEM.

With step-by-step guidance, daily agendas, and comprehensive supply lists, educators can seamlessly integrate these experiences into their curriculum while aligning with Oklahoma Academic Standards. Our aim is to make STEM curriculum accessible for all educators, relieving the burden of time and cost.
Project Spotlight: STEM Shoppe Learning Series

The STEM Shoppe Learning Series transforms STEM education by providing educators with confidence and competence. As a lending library of tools and equipment, the STEM Shoppe removes financial barriers for schools, making these resources accessible to classrooms and out-of-school time groups.

The monthly professional development series introduces teachers to effective methods of using and integrating STEM tools into their curriculum. Themes like robotics and flight ensure relevance for educators of all grades and experience levels, fostering a collaborative and inclusive learning environment. This practical guidance not only saves resources but also establishes a strong foundation, empowering educators to navigate and excel in STEM education with confidence.

STEM Shoppe Kit Utilization

- Robotics: 65
- Life Science: 39
- Earth & Space: 31
- Engineering: 46
- Physical Science: 11
- Math: 16

STEM SHOPPE IMPACT

- 56 Schools & organizations
- $249K In savings for our partners
- 208 Instructional kits checked out
- 21,266 Student experiences
We champion inclusivity in STEM across the community.

Through collaborative efforts at events and partner gatherings, families, businesses, industry leaders, and educators join forces to enrich STEM experiences.

Our family engagement programs actively engage parents and guardians, fostering a supportive learning environment that empowers youth for a STEM-driven future.

Together, we cultivate a community where every young mind feels valued and sees their potential in the dynamic world of STEM.

Explore examples of our community engagement and collective impact work below and on the following pages.

<table>
<thead>
<tr>
<th>PROJECTS</th>
<th>DETAILS</th>
<th>OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM in Motion</td>
<td>Quarterly all-partner convenings to collaborate and calibrate across the ecosystem</td>
<td>Convened 93 individuals state-wide, representing 63 organizations.</td>
</tr>
<tr>
<td>North &amp; Central Tulsa STEM Hubs</td>
<td>Coalitions of localized support for historically marginalized communities</td>
<td>Convened 14 partners and powered 6 family STEM nights.</td>
</tr>
<tr>
<td>Volunteers</td>
<td>Engage STEM professionals in impactful volunteer and mentorship roles</td>
<td>Engaged 427 individuals in 1,415.5 hours of service.</td>
</tr>
</tbody>
</table>
GRANTS

Funding awarded to schools and organizations to remove barriers and ensure access to excellent STEM experiences across Oklahoma.

$320,267 Awarded

73 Grants

43 Education and community partners

resulting in 62,310 student experiences

- Curriculum & Resources — 24
- Out-of-School Time — 22
- Competitions — 19
- Mentorship — 3
- Professional Development — 4
- Family & Community — 1
The year 2023 marked a strong start in building MOMENTUM in the areas of digital badges, program evaluation, and professional learning for out-of-school time providers. We launched the first cohort of partners to lay the foundation for an equitable digital badge system with the goal of outlining STEM learning pathways for students and families. Partners also took a deep dive into understanding the impact of their programs through the Partnerships in Education and Resilience (PEAR) data analysis reports while learning and growing together through professional learning experiences.
Partner Spotlight: Outdoor Classroom

The award-winning Outdoor Classroom is a hands-on, youth outreach initiative for nature-based STEM for 5th and 6th graders. Since its inception in 2015, it has partnered with TRSA to deliver outstanding experiences for students. Concentrating on Tulsa’s socio-economically challenged communities, its distinctive method prioritizes inclusivity, ensuring thriving opportunities for individuals with diverse learning needs.

Through collaborations with TRSA, such as SENSESational Science and the MOMENTUM digital badge project, they are actively shaping the landscape of STEM education.

Partner Spotlight: Beyond100k

An important new collaboration supporting our mission involves Beyond100K, a coalition committed to addressing the STEM teacher shortage by 2043. Our partnership is rooted in a shared mission to create belonging and inclusivity within the STEM community.

Together, we co-develop and implement solutions, actively learning from and sharing insights with partners across the nation. Beyond100K emphasizes the importance of inclusivity in solving global challenges, recognizing teachers’ crucial role in cultivating a sense of belonging for the next generation of STEM leaders.
A special thanks to our valued partners and collaborators who have played a vital role in enriching STEM learning experiences through our programs and services! Your dedication to fostering education and innovation has been instrumental, and we look forward to continuing this collaborative journey toward building a more inclusive and vibrant STEM community.
We thank you for your ongoing support!

**Community Partners**
- Assistance League of Tulsa
- Battle Creek Church
- Black Tech Street
- Boy Scouts of America, Indian Nations Council
- City Year Tulsa
- Food on the Move
- Foundation for Tulsa Schools
- Freedom Hill Baptist Church
- Gathering Place
- Gilcrease Museum
- Girl Scouts of Eastern Oklahoma
- Kendall-Whittier Library
- Met Cares Foundation
- Micro:bit Educational Foundation
- National Charity League, Greater Tulsa
- Oklahoma Association for the Deaf
- Oklahoma Engineering Foundation
- Oklahoma Geological Survey
- Oklahoma Manufacturing Alliance
- Oklahoma Society of Professional Engineers
- Partnerships in Education & Resilience (PEAR)
- Philbrook Museum of Art
- Prime Movers – FRC Team 31
- Reed Community Foundation/Ben Hill Community Center
- Rudisill Regional Library
- Salvation Army North Mabee Boys & Girls Club
- Society of American Military Engineers (SAME)
- Spat 31 Inc
- Suburban Acres Library
- Technology Student Association
- The M.E.T
- The Oxy dye Foundation
- The Stemcell Science Shop
- The Tech Village
- Trojan Aquatic Center
- Tulsa Botanic Gardens
- Tulsa City-County Library
- Tulsa County 4-H
- Tulsa County Parks
- Tulsa Dream Center
- Tulsa Drillers
- Tulsa Engineering Foundation
- Tulsa Higher Education Consortium
- Tulsa Opera
- Tulsa Symphony Orchestra
- YMCA
- Young People of the Next Generation
- Youth at Heart

**Government & Tribal Nation Partners**
- City of Tulsa
- Muscogee Nation
- Oklahoma Aeronautics Commission
- Oklahoma Forestry Services
- Oklahoma State Department of Education
- Oklahoma State Regents for Higher Education
- Osage Nation
- STARBASE Oklahoma

**Workforce Partners**
- AAO
- American Airlines
- Ascension St. John
- Bank of Oklahoma
- Blue Cross and Blue Shield of Oklahoma
- Coterra Energy
- Cox Media Group
- Fiber Pad, Inc.
- Garver
- Google – Mayes County Data Center
- Green Acorn LLC
- Greenheck Group
- Gulfstream
- John Zink Hamworthy Combustion
- Koch Engineered Solutions (KES)
- MidAmerica Industrial Park
- NORDAM
- Oklahoma Central Credit Union
- ONE Gas
- ONEOK
- PMI Tulsa
- QuikTrip
- T.D. Williamson
- Ten-Nine Technologies
- Tulsa Airports Improvement Trust
- Tulsa Innovation Labs
- TulsaPorts
- Williams
In the evolution of our journey, what began years ago has blossomed into a powerful testament to one family’s profound dedication to STEM education for all Oklahomans. In 2023, we celebrated the 10th Annual Flight Night gala, a milestone marked not only by its longevity but also by its transition to being operated by TRSA.

"Flight Night, hosted in an airplane hangar, offers a unique experience complete with two airshows, a drone display, a lively auction, and the recognition of four standout educators from across Oklahoma for their impactful work in STEM education equity. For many years, NORDAM and the Siegfried Family generously spearheaded this million-dollar fundraiser. In 2023, they officially passed the torch to TRSA.

Guided by a dedicated 27-person volunteer committee, this event stands as the cornerstone of our fundraising efforts, empowering us to continue our mission of fostering excellence and equity in STEM education throughout Oklahoma.
Partner Spotlight:
John & Stephanie Rupe

We proudly spotlight John and Stephanie Rupe, our 2023 Flight Night Committee Chairs. John, CEO of Rupe Companies, brought rich leadership and community engagement, while Stephanie, with over a decade as a controller for Nelson Mazda Group, brought her financial acumen and strategic insight.

Together, John and Stephanie infused the 2023 Flight Night gala with fresh ideas and enthusiasm, rallying new supporters and elevating the event to new heights of success. Their dedication and passion for advancing STEM education for all Oklahomans have left an indelible mark on our community, and we are immensely grateful for their leadership and commitment to our cause.

Project Spotlight:
Siegfried STEM Educator of the Year

Reese Hundley, acclaimed as the STEM Educator of the Year, embodies excellence in fostering a sense of belonging within his classroom at Vanguard Academy in Broken Arrow. Through his innovative programs, Reese empowers students by engaging them as problem-solving consultants, facilitating connections with community partners, and introducing Outdoor Primitive Skills to promote holistic growth and development. His transformative teaching methods, which have garnered prestigious awards, reflect his unwavering dedication to cultivating an inclusive and inspiring educational environment where every student feels valued and empowered to succeed.
We are grateful to all our 2023 sponsors for their pivotal role in powering our mission. Your financial contributions are the driving force behind our impactful initiatives.
Together, we can do what we cannot do alone!

Your support ensures that all our programs, events, services, and resources remain accessible to everyone, eliminating financial barriers and empowering individuals from all walks of life to engage with STEM.

$5,000–$9,999
- 3D Aerostructures Inc.
- Advance Alarms
- Aeron Group LLC
- Ascension St. John
- Asphalt & Fuel Supply
- Aviation Technology Associates (Avtech)
- Bank of Oklahoma
- Tom & Jess Biolchini
- Blue Cross Blue Shield of Oklahoma
- CBIZ Stinnett
- The Chickasaw Nation
- Commerce Bank
- Coterra Energy Inc
- Cox Communications
- The Cuesta Foundation
- Daniel Simoni
- John and Marianne DiDonato Foundation
- Ernst & Young LLP
- Fastenal
- Frederic Dorwart, Lawyers PLLC
- Gateway First Bank
- Grant Thornton LLP
- Green Country Aircraft
- Helmerich & Payne, Inc.
- Hexcel Corporation
- Hillcrest Medical Center
- Hummingbird.tech
- JP Morgan Chase
- Kinder Morgan Foundation
- Mabrey Bank
- Magellan Midstream Partners
- Kevin McManus
- Sanjay Meshri
- MRC Global
- MSC Industrial Supply Company
- Nelson Auto Group
- Oklahoma Center for Nonprofits
- Oklahoma Natural Gas (ONG)
- Oklahoma State University Foundation, OSU–Tulsa, OSU College of Engineering, Architecture and Technology
- Omni Air International, LLC
- Omni Air Transport | Omni Aircraft Sales | Omni Aircraft Maintenance
- ONE Gas
- Oracle Corporation
- Osage Casino Hotel
- The Oxley Foundation
- PricewaterhouseCoopers LLP (PwC)
- RAE Corporation
- SageNet
- Saint Francis Health System
- Savannah Properties, Inc.
- Southern Glazers Wine and Spirits of Oklahoma
- T.D. Williamson
- TT CU Cares Foundation
- Tulsa Community Foundation
- Tulsa Plastics Company
- UMB Bank
- Rick & Kelly Wilkerson
- World Travel
- Zeeco
- Debbie Zinke

$1,000–$4,999
- ABCO Party Rentals
- Advanced Machining & Fabricating, Inc. & Advanced Plastics, Inc
- Advanced Neuro Solutions
- American Bank and Trust Co.
- American Waste Control
- Anonymous Donor
- Atento Capital
- Krista Bendana
- David Bendel
- Linda Booker
- Cory & Lynn Bowker
- Budco, Inc
- Austin Buerge
- Mike Bunney
- Robert Burk
- Jason Burns
- Capital Advisors
- Mike Case
- Caitlin Crane
- Michael Daniel
- Devon Energy
- Robert Elmburg
- Daniel Eslicker
- Kelsey & Carlos Flores
- Garver
- Matt & Teresa Gawey
- Gelvin Foundation, Inc.
- Grand Bank
- Jason Griffin
- Scott & Mary Hausman
- Lindsey & Isaac Helmerich
- Michael Hitz
- The HoganTaylor Foundation
- Don & Melissa Hull
- inTulsa
- Jordan & Sons, LLC
- David Kollmann
- Angela Kouplen
- Jennifer Legler
- Brooke Mahan
- Trase Mahan
- Chad & Amy Mariska
- Jennifer McCullough
- McNelie’s
- Melton Truck Lines
- John & Julie Nickel
- Lucia Oberlé
- OK–INBRE
- John & Erin Peters
- Polo Grill
- John Power
- Chris & Christy Rawlings
- John & Stephanie Rupe
- Chris Schembri
- Raegen & Amy Siegfried
- Steven Soulé
- Donna Swank
- Bryanie Swilley
- TCC Foundation
- Tulsa Airports Improvement Trust (TAIT) Employee Charitable Giving
- Tulsa Bone & Joint Associates
- Tulsa Innovation Labs
- Gerogenia Tuyl
- United Rentals
- Stuart Vandewiele
- Stephani Wagoner
- Webco
- Carrie Williams
- Milannie Siegfried Williams
- Greg Wood
- Brian Woodliff
- Oliver Wyman
- Carrie & David Zenthoefer

Under $1,000
- 32 Winds
- A&G Machine Inc.
- Olajumoke Akingbola
- Sarah Alfred
- David Allison
- Steven Altman
- American Solera
- Douglas Anderson
- Camilo Arellano
Under $1,000 cont.
- Erin Armstrong
- Elizabeth Barber
- Casey Beeman
- Shelby Bell
- Erin Bendel
- Kayla Bidleman
- Emily Biernacki
- John Billings
- Tyrance Billingsley
- Casey Bingham
- Pamela Black
- Mea Boone
- Sandra Boyaci
- Chad Bracher
- Heath Bringham
- Elizabeth Browne
- Toni Budd
- Cody Burnett
- Patti Burton
- Mandi Campbell
- Rachel Christy
- Shing Chung
- Chuy’s Tex Mex
- Susan Crenshaw
- Madison Curley
- Kim Dammann
- Steven Davis
- Joe Dawson
- Douglas DeJarnette
- Sara Delgado
- Brett Dixon
- Candice Doctor
- Patricia Duckworth
- Michael Dunn
- Michael DuPont
- Erik Egeland
- Michael Elder
- Britney Else
- Lori Escalanta
- Anita Fangmeier
- Matthew Farris
- Shea Fehrenbach
- Marcus Flusche
- William Freudenrich
- Matthew Fulghum
- Jon Given
- Ryan Glaze
- Conor Godfrey
- Daniel Grant
- Sharon Griffin
- Stephania Grober
- Richard Guild
- Melissa Gunther
- Lindsey Gurley
- Garrison Haning
- Amber Hardwick
- Rami Hasbini
- Rosa Hathaway
- Jessica Hayes
- Ivan Herrera
- Shannon Hudson
- Cheryl Humphries
- Jeffrey J. Husen
- Brian Inbody
- Jamey Jacob
- Rachel James
- Kathryn Johnson
- Kevin Johnson
- Jeff Jones
- Thomas Junk
- Emily Keller
- Gary Kennedy
- Robert Kinyon
- Alan Kirby
- Christine Koerner
- Larry Komara
- Robyn Krivacic
- Emily Krukowski
- Ken Lackey
- Phil Lakin
- Christine Latham
- Donald Law
- Gina Lawson
- Scott Lehman
- Brian Letzkus
- Lindsay Levine
- David Litzinger
- Eric Lopp
- Gregory Lusardi
- Richard Magaldi
- Ryan Mahaffey
- Leslie Mccollum
- Danny Mckee
- John Miller
- Josh Miller
- Susan Molinar
- Mandy Monahan
- Amy Moore
- Sheila Moore
- Suzanne Morgan
- Mark Musser
- Yas Nakayama
- Louis Napoleone
- Mary Beth Nesser
- Dennis Neill
- New York Bagel Café
- Jacob Odom
- Jamie Oliphant
- Robert Oneal
- Salina Ornelas
- Hannah Orth
- Melissa Paterni
- Levi Patrick
- Jaime Payne
- Manuel Garrido Paz
- Cheena Pazzo
- Bret Perkins
- Rob Phillips
- Jenny Phomakay
- Kelsey Pierce
- Ryan Pixley
- Kevin Plunkett
- Tracy Poole
- Jeremy Price
- Michelle Rahn
- Roger Ramseyer
- Emmett Reedy
- Michael Reeves
- Daniel Regan
- Stephanie Regan
- Maggie Ripley
- Sheeva Rivers
- Whitney Roberts
- Calvin Ross
- April Roy
- Kimberly Sallee
- Krista Sappington
- Brian Schlagel
- Timothy Schooley
- Isaac Schwarz
- Lisa Schwarz
- Select Plastics LLC
- Gary Sherrill
- Kevin Short
- Donald Smith
- Andrew Snyder
- Zechari Snyder
- Elizabeth Stapleton
- Raymond Stout
- Diana Stuck
- Beverly Swilley
- Tom Taylor
- Chad Teply
- Brandon Thompson
- Brandon Tipton
- Tomasilove
- Nikol Tsahepe
- Gary Tucker
- Raymond Vandiver
- Shanmukha Mathukumalli
- Venkata
- Xavier Villarreal
- Ian Walker
- Josh & Jaime Walton
- Weather Guard Lightning Tech
- Marshall Wells
- Travis White
- Michael Willhelm
- David Williams
- Jordan Winders
- Ben Winfrey
- Barbara Wollmershauser
- Tyra Woodard
- Rebecca Wootten
- Shagah Zakerion
## STATEMENT OF ACTIVITIES

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2022</th>
<th>2023*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corp/Business Contributions</td>
<td>154,913</td>
<td>1,926,781</td>
<td>1,630,897</td>
</tr>
<tr>
<td>Individual Contributions</td>
<td>10,869</td>
<td>31,637</td>
<td>15,121</td>
</tr>
<tr>
<td>Grants</td>
<td>1,061,774</td>
<td>316,920</td>
<td>993,705</td>
</tr>
<tr>
<td>Other Revenue</td>
<td>524</td>
<td>15,663</td>
<td>35,629</td>
</tr>
<tr>
<td><strong>TOTAL REVENUE</strong></td>
<td>1,228,080</td>
<td>2,291,001</td>
<td>2,675,352</td>
</tr>
<tr>
<td><strong>PROGRAM EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mentoring</td>
<td>150,722</td>
<td>114,259</td>
<td>253,792</td>
</tr>
<tr>
<td>Competitions</td>
<td>68,193</td>
<td>54,177</td>
<td>114,377</td>
</tr>
<tr>
<td>Out of School Time</td>
<td>150,123</td>
<td>212,809</td>
<td>133,374</td>
</tr>
<tr>
<td>Curriculum &amp; Resources</td>
<td>99,102</td>
<td>73,845</td>
<td>188,360</td>
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<tr>
<td>Professional Development</td>
<td>209,113</td>
<td>410,114</td>
<td>174,012</td>
</tr>
<tr>
<td>Family &amp; Community</td>
<td>33,809</td>
<td>41,629</td>
<td>94,420</td>
</tr>
<tr>
<td>Stem Ecosystem</td>
<td>148,082</td>
<td>182,196</td>
<td>293,347</td>
</tr>
<tr>
<td>General Program</td>
<td>-</td>
<td>173,628</td>
<td>186,793</td>
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<tr>
<td><strong>TOTAL PROGRAM EXPENSES</strong></td>
<td>859,144</td>
<td>1,262,657</td>
<td>1,438,475</td>
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<tr>
<td><strong>SUPPORTING SERVICES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management &amp; General</td>
<td>256,195</td>
<td>444,433</td>
<td>414,471</td>
</tr>
<tr>
<td>Fund Development</td>
<td>75,999</td>
<td>430,997</td>
<td>622,044</td>
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<tr>
<td><strong>TOTAL SUPPORTING SERVICES</strong></td>
<td>332,194</td>
<td>875,430</td>
<td>1,036,515</td>
</tr>
</tbody>
</table>

## FINANCIAL POSITION

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2022</th>
<th>2023*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Checking &amp; Savings</td>
<td>728,020</td>
<td>940,618</td>
<td>558,606</td>
</tr>
<tr>
<td>Pledges Receivable</td>
<td>95,749</td>
<td>112,710</td>
<td>530,621</td>
</tr>
<tr>
<td>Property &amp; Equipment, Net</td>
<td>21,890</td>
<td>298,052</td>
<td>255,791</td>
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<tr>
<td>Other Assets</td>
<td>30,091</td>
<td>316,984</td>
<td>308,676</td>
</tr>
<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>875,750</td>
<td>1,668,364</td>
<td>1,653,694</td>
</tr>
<tr>
<td><strong>LIABILITIES &amp; NET ASSETS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Cards</td>
<td>11,532</td>
<td>19,847</td>
<td>7,742</td>
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<tr>
<td>Other Liabilities</td>
<td>44,060</td>
<td>675,445</td>
<td>472,517</td>
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<tr>
<td>Net Assets with Donor Restrictions</td>
<td>549,829</td>
<td>385,847</td>
<td>586,210</td>
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<tr>
<td>Net Assets w/Out Donor Restrictions</td>
<td>270,329</td>
<td>587,225</td>
<td>587,225</td>
</tr>
<tr>
<td><strong>TOTAL LIABILITIES &amp; NET ASSETS</strong></td>
<td>875,750</td>
<td>1,668,364</td>
<td>1,653,694</td>
</tr>
</tbody>
</table>

*Not yet audited

Fiscal Year: January 1 – December 31
Board of Directors

Stephanie Regan  
Chair  
AAON

Mandy Monahan  
Vice Chair  
NORDAM

Christine Koerner  
Secretary  
American Institutes for Research

Michael Daniel  
Treasurer  
Retired Accountant

Erin Armstrong  
Tulsa Public Schools

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INCOG

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Black Tech Street

Caitlin Crane  
ONEOK

Conor Godfrey  
Tulsa Innovation Labs

Garrison Haning  
Magellan Midstream

Mary Hausman  
Williams

Rachel James  
Greenheck Group

Angela Koupelen  
University of Tulsa

Yas Nakayama  
QuikTrip

Lucia Oberle  
Daniel Properties, LLC

Lisa Schwarz  
OERB

Kulsum Siddiqui  
Union Public Schools

Ray Vandiver, PhD  
Discovery Lab

Xavier Villarreal  
Hillcrest Medical Center

Stephani Wagoner  
HoganTaylor

Joshua Walton  
Schusterman Philanthropies

Travis White, PhD  
Tulsa Community College

Includes all staff and Board members who contributed to TRSA in 2023.

Staff

Levi Patrick  
Executive Director

Emily Mortimer, PhD  
VP of Ecosystems

Lynn Staggs  
Chief of Staff

Kristen Schooley  
Development Director

Jensen Bloom  
Communications Coordinator

Rachel Christy  
Program Manager

Melissa Cobb  
Program Manager

Tangela Ekhoff  
Program Manager

Christie Little  
Accountant

Kristen Tanner  
Lead Program Manager

Abigail Vensel  
Program Manager

Jaime Walton  
Community Engagement Manager
Since early 2022, we have been making progress toward realizing our five-year strategic plan, which included 109 initiatives designed to ensure the thriving of our STEM ecosystem and the operational maturity of our organization.

As of 2023, we have completed **23 initiatives** and are actively working on **46 more**! Check out the number of initiatives that have been completed or are in progress by goal below.

### Strategic Priority 1: The STEM Ecosystem is Thriving

**Youth**
Youth are surrounded by resources, opportunities, and encouragement that excite them about STEM and propel them forward.

**Families**
Families value STEM education and choose to engage with TRSA to meet the needs of their students.

**Educators**
Educators are confident in facilitating STEM experiences in order to drive student success and see TRSA as a trusted source for evidence-based resources and pathways to inspire and prepare students.

**Ecosystem Partners**
STEM Ecosystem Partners value their membership because it strengthens and amplifies their work and that of the Alliance.

### Strategic Priority 2: TRSA is Operationally Mature

**Staff**
We are fully-staffed with little to no turnover, have opportunities for growth and development, and collaborate across our diverse strengths in a safe environment so we all feel welcome.

**Board**
Our Board represents the community it serves, engages and enables TRSA’s staff in its mission, and has a sustainable membership pipeline.

**Finance & Development**
TRSA has a secure and sustainable financial outlook supported by robust and diverse revenue streams.

**Operations**
As a team, we can grow our organization and its impact with consistency and confidence in our processes because we understand our responsibilities, know who is running with what, and meet our commitments mutually.
Tulsa Regional
STEM Alliance

5005 S. Darlington Ave.
Tulsa, OK 74135
(918) 779-4910

TulsaSTEM.org