BEST OF TEXAS ROBOTICS

2024

IMPACT REPORT

STEAM EXEMPLIFIED

WWW.BESTOFTEXASROBOTICS.ORG

At a Glance: BEST of Texas Robotics 2024

Total number of HUBS: 13 — 15% Growth

Total number of teams: 222 — 9% Growth

Total number of teachers: 290 — 2% Growth

Total number of mentors: 105 — 8.5% Growth

Total number of volunteers: 158

Total number of students: 3307 — 6.5% Growth

Location of team: — 15% Rural Growth
23.5% Urban, 42.5% Suburban, 35% Rural

School Type:
82% Public School 5% Private 8% Charter 4% Homeschool
1% Other

School Population Size:
25.5% <400 23% 400-799 10% 800-1199
14.5% 1200-2000 27% >2000

Type of Program Implemented:
69% Extracurricular, 28.5% Classroom, 2.5% School Program

Grade Level of Students
17% k-5 grade, 14% Middle School, 69% High School

Regional HUB Partnerships in 2024

Returning HUBs

Capitol CoCo Cowtown Dallas New Mexico Oklahoma
North Houston San Antonio U STEM Little Rock

Welcome to our 3 new HUBs

East New Mexico Rio Grande Valley Temple BEST

Total Volunteers: 158

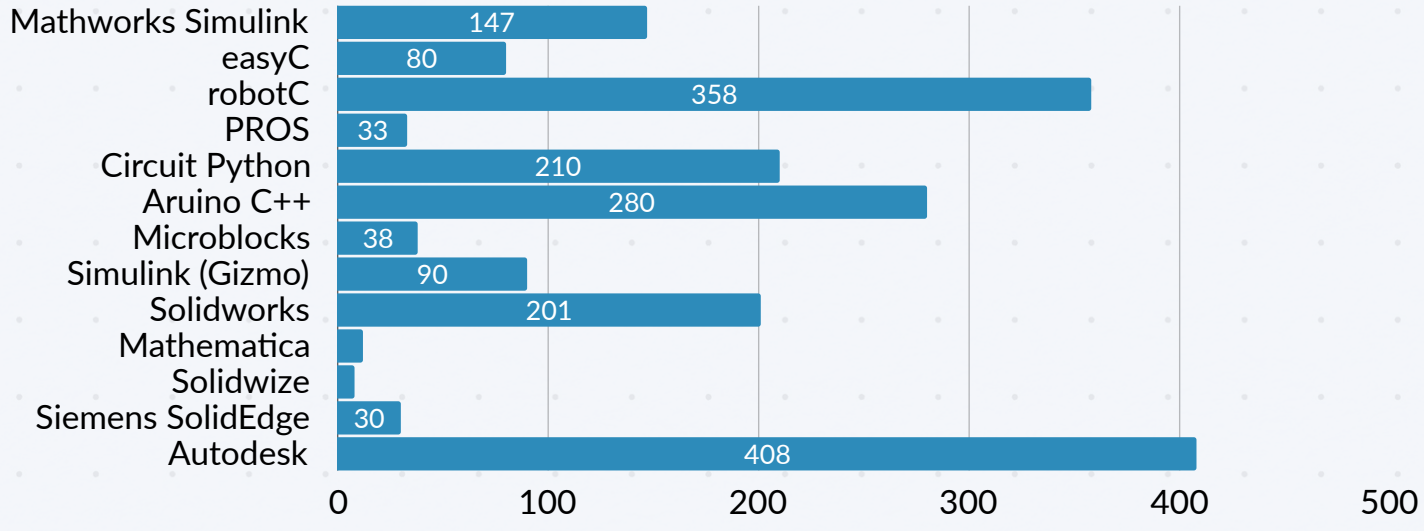
Corporate Sponsor Volunteer Engagement:

5: Lockheed Martin 8: Qorvo 27: Texas Instruments 6: UT Dallas

Sponsorship Partners

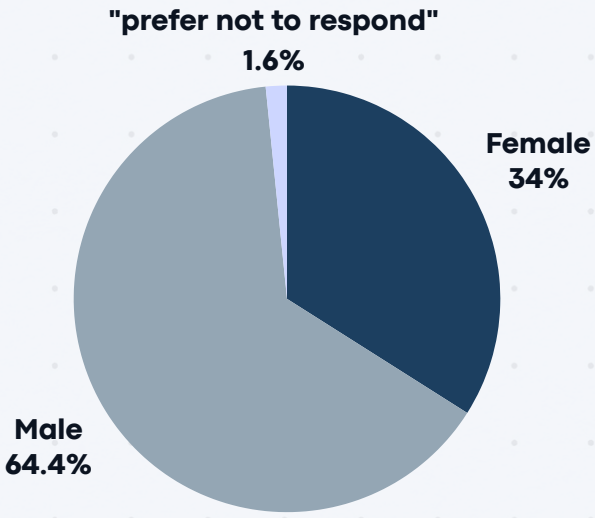
UT Dallas: Presenting Sponsor
Texas Instruments: Founding Sponsor
Qorvo: Gold Sponsor
Stacer Group: Gold Sponsor
HEB: Championship Student Lounge Sponsor
Lozier: BEST Friend Sponsor
North Texas Giving Day Donors: Provided Free Lunch for Students

Software used by students during BEST Robotics

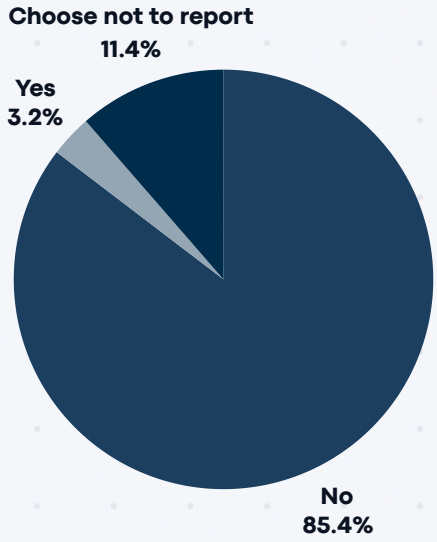


Student Demographics

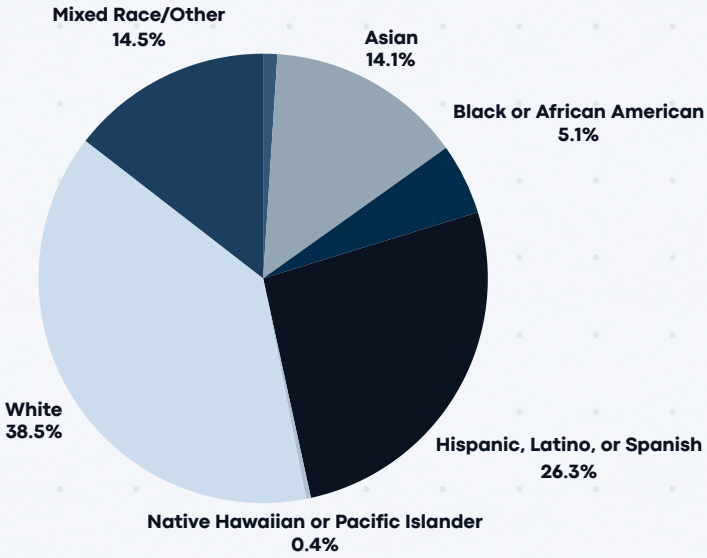
Gender



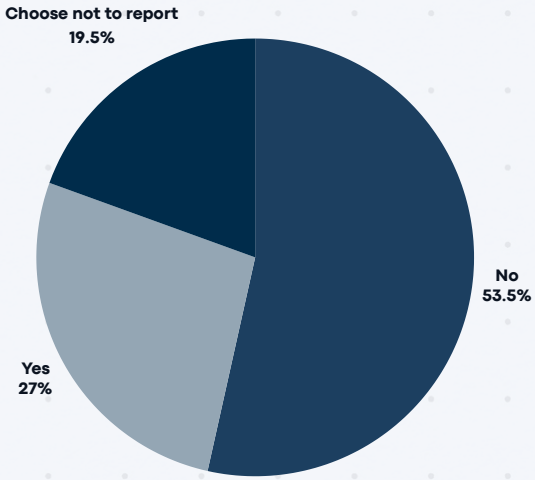
Disability



Race/Ethnicity



Free Lunch Program



Competition Participation Breakdown

Local Competitions

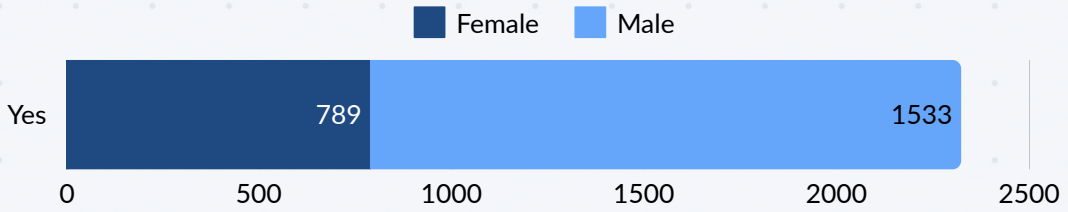
UIL Small: 11
UIL Medium: 40
UIL Large: 40
Open Best: 123
Total Students: 3307

State Competition

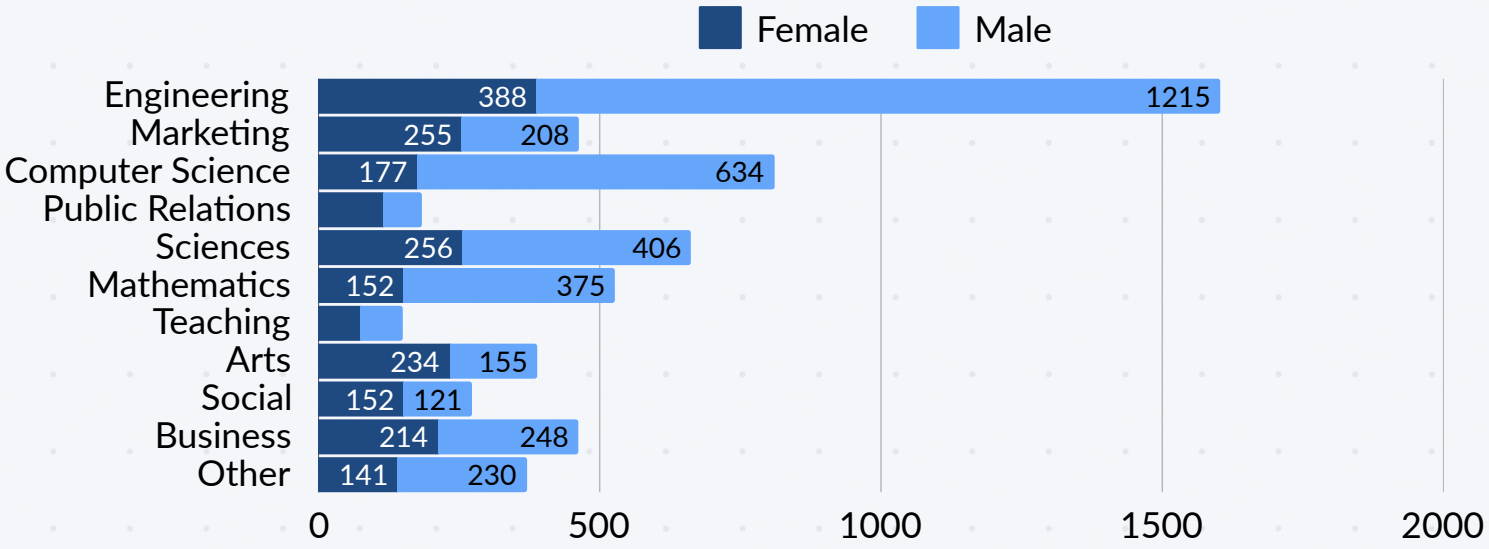
UIL Small: 7
UIL Medium: 13
UIL Large: 15
Open Best: 41
Rookie Teams: 13
Total Students: 1878

Student Impact

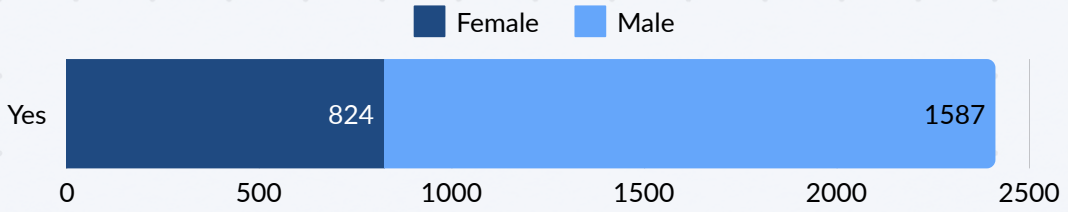
BEST Increased my interest in STEM Careers: 92% Yes



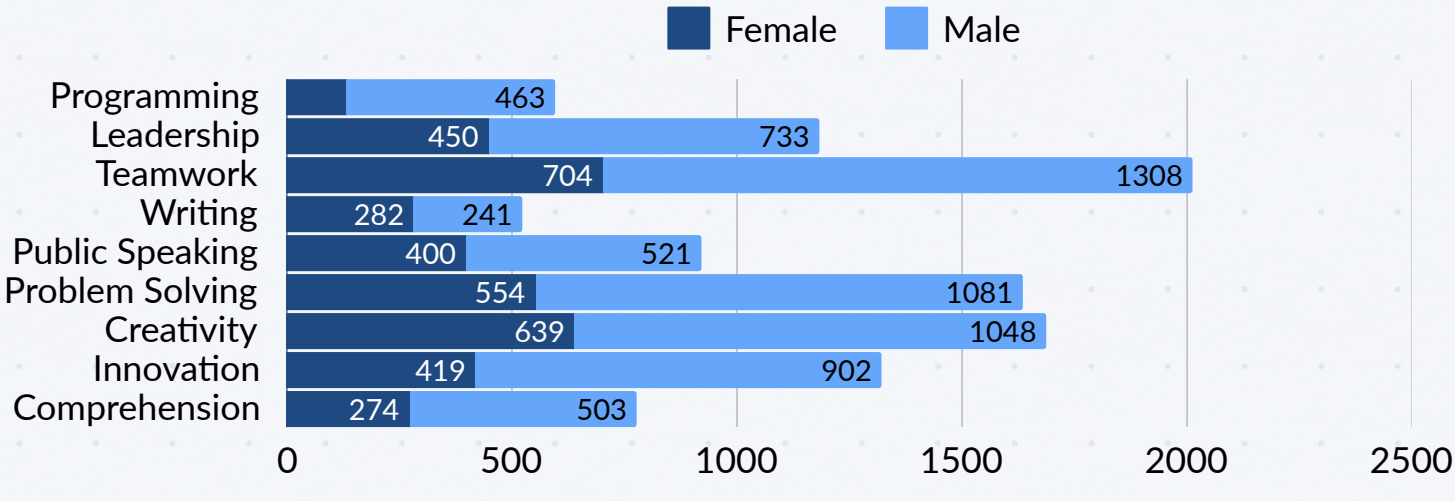
BEST Influenced me to pursue a career in:



BEST improved by tech/business/communication skills: 95% Yes



New Skills acquired by participating in BEST Robotics



STUDENT SURVEY OUTCOME DATA

68%

of students reported that BEST inspired them to consider and/or pursue a career in a STEAM field

7%

of our students reported their intention to obtain an industry-based certification before their High School graduation

62%

of students reported an intention to pursue a STEM-based education or certification before or following High School

90%

Would recommend BEST of Texas Robotics to other students.

94%

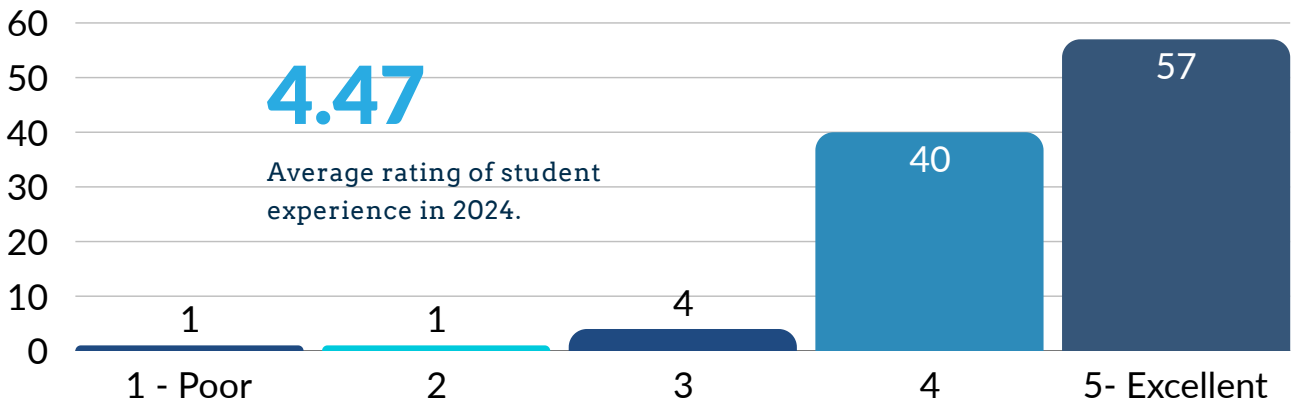
reported that BEST of Texas positively influenced their education and career decisions.

30%

of students reported that participation increased their teamwork and leadership skills.

> THIS SEASON WAS AN INCREDIBLE JOURNEY THAT PUSHED ME TO GROW BOTH TECHNICALLY AND PERSONALLY. I GAINED HANDS-ON EXPERIENCE WITH ENGINEERING CONCEPTS, PROBLEM-SOLVING UNDER PRESSURE, AND COLLABORATING WITH A DIVERSE GROUP OF TEAMMATES, ALL OF WHICH STRENGTHENED MY PASSION FOR ROBOTICS. BEYOND THE TECHNICAL SKILLS, I LEARNED THE IMPORTANCE OF EFFECTIVE COMMUNICATION, ADAPTABILITY, AND STAYING POSITIVE EVEN WHEN FACED WITH CHALLENGES. THE SUPPORT AND CAMARADERIE WITHIN THE TEAM MADE EVERY MOMENT MEMORABLE, AND IT'S AN EXPERIENCE THAT WILL STAY WITH ME AS I CONTINUE TO PURSUE MY GOALS IN STEM.
> -2024 STUDENT PARTICIPANT

2024 STUDENT OVERALL EXPERIENCE SURVEY RATING



Newly Implemented Programming in 2024

In response to requests for more activities and events for students at the State Championship competition at Fair Park, BEST of Texas Robotics partnered with alumni, professional and education partners, and space-themed nonprofits to provide the following new experiences for students.

College and Career Fair: Educational and corporate partners were provided booth space in the student lounge to engage students in their element in their free time. Feedback from both students and presenters was overwhelmingly positive.

Alumni Panel: A panel presentation of BEST of Texas Alumni was held in the Briscoe Auditorium. Questions centered around leveraging the BEST experience and STEAM-learning environment to further career and educational aspirations. Alumni represented a swathe of career fields from finance and business to technical and engineering careers so that every student would find value, no matter their future goals.

Industry Panel: Similar to the Alumni Panel, a panel presentation of industry professionals was held to answer student's questions about how to leverage their experience and knowledge to pursue future careers in STEAM.

Keynote Speaker: BEST was privileged to host our guest speaker and NASA engineer Glenn Johnson, whose experience includes being part of the team that designed the space toilet on the International Space Station.

Postcards to Space: Our partners at Blue Origin provided a unique hands-on opportunity for students and attendees to design a personal postcard which will ultimately make a journey to space aboard a future Blue Origin space flight and then be mailed back to them upon return.

Perot Museum Tech Truck: Through a newly forged partnership with the Perot Museum of Nature and Science, students were able to visit an on-site discovery center for hands-on scientific learning.

Free Lunch for Students: Thanks to the generous support of North Texas Giving Day donors, BEST of Texas was able to provide free lunch for all participating students at the State Championship competition. Offering free lunch aligns with the BTR value of ensuring an equitable and inclusive program for all students.