

FLIGHT NIGHT

TAKING FLIGHT

Your Support Brings the STEM Fields to Life for a New Generation

Together, we're inspiring students and improving the future of our community



2016 RESULTS

Funds Distributed since 2014
Over \$1.3M

2016 Beneficiaries
Fab Lab Tulsa and
Tulsa Regional STEM
Alliance (TRSA)

2016 Distribution Amount
\$501,000

2016 Flight Night Attendance
765

2016 PROGRAM OUTREACH

Students Reached
Over 113,000

STEM Programming Hours
84,093

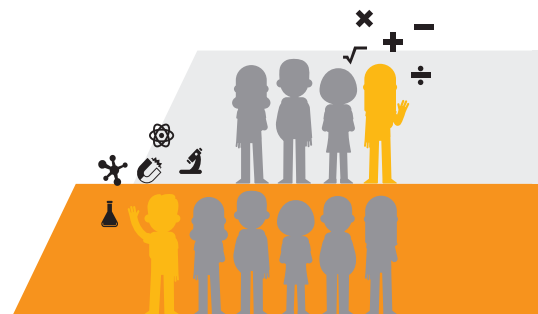
STEM Educator Training Hours
7,757

STEM Mentorship Hours
15,558

2016 Flight Night
funding reached
113,000+
STUDENTS

In 10 years, **54%** of current OK STEM jobs will be vacant due to retirement. Your support prepares our students to fill them.

Only **1 in 4** fourth graders from low-income backgrounds are proficient in math and **1 in 6** are proficient in science.



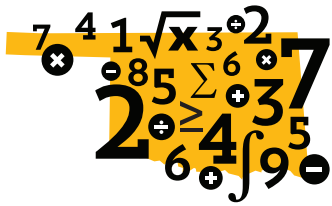
*"Attending **Tech Trek** actually changed my opinion of a STEM job. Now, I am interested in **looking into a STEM field**, and very glad I had this opportunity to gather more information to help me create a **path for my life.**"*

- Actual student attendee

OUR FOCUS AND OUTCOMES

Preparing Oklahoma students to succeed in math

- Participants whose interest in math and science increased as a result of programs by Flight Night beneficiary Fab Lab Tulsa: **83%**
- Tulsa third-grade math students who went from below grade and peer levels to an average of three points above non-participants through the *Me and My Math Mentor* program*: **100%**



**An exceptional outcome, as it's difficult for students who've fallen behind in their proficiencies to catch up to their peers, never mind exceeding them.*

Building STEM career awareness among area students

- Students who gained a sense of self-confidence as a result of Fab Lab Tulsa programs: **93%**
- STEM event participants planning to graduate high school and attend College: **90%**
- STEM Exploratorium attendees who learned something new and now understand STEM better: **87%** and **90%**, respectively



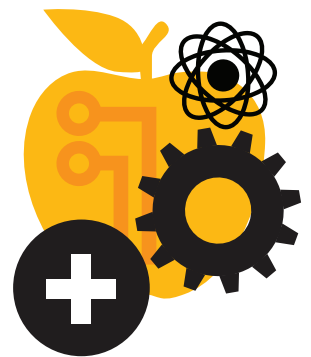
Inspiring girls and other underrepresented minorities to pursue STEM careers

- Flight Night *Women in STEM* event attendees who now believe learning about STEM is important and plan to attend college: **98%** and **99%**, respectively
- Eighth-grade girls who attended a week-long, residential STEM camp and now understand what a computer scientist does and have the confidence to pursue an engineering career: **91.7%**
- Flight Night funded programs impact students statistically underrepresented in STEM fields by gender, race and socio-economic status.



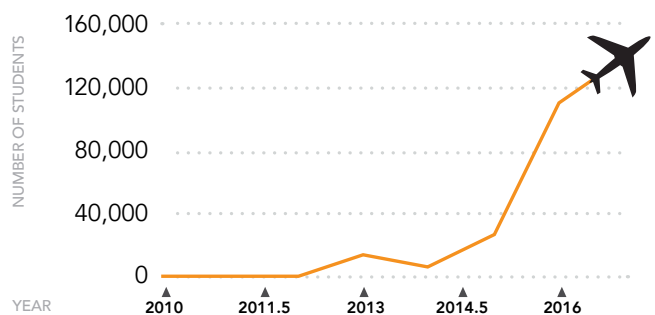
Investing in educators as STEM leaders

- Professional development hours powered by Flight Night in 2016: **7,757**
- Investment in STEM professional development and *Science of Flight* classroom grants last year: **\$45,000**



Flight Night beneficiary Tulsa Regional Stem Alliance projects their STEM educational outreach will reach an estimated **150,000** area students by the end of 2018.

TRSA STUDENT REACH



2017 PROGRAM HIGHLIGHTS

FOR EDUCATORS: SCHOLARSHIPS, GRANTS AND 'STEM INNOVATOR' AWARDS

A portion of Flight Night funds are budgeted for professional-development scholarships, 'Science of Flight' and other STEM-based classroom grants for Oklahoma teachers, including 'STEM Innovator' cash awards for outstanding leadership and excellence in STEM.

FLIGHT NIGHT MOBILE FAB LAB

Support includes ongoing operation of the unique mobile fab lab, featuring multiple experiential learning labs, digital fabrication tools, such as 3D printers, laser cutters and a three-axis mill. In 2016, the Flight Night Mobile Fab Lab brought inspiration to 282 classes and interacted with nearly 5,000 students and teachers. 83 percent of students agreed their interest in math and science increased as a result of Fab Lab Tulsa programs.

GIRLS CODING CAMP During this professional-development training and camp, students and teachers received hands-on training with Code.org and Scratch. The teachers are trained in basic computer science concepts, and then instruct students in the afternoon. The girls' interest in a technology career increased from 59 percent before the camp to 91 percent afterward.

EXPANDED PROGRAMS:

OKLAHOMA KITE FESTIVAL

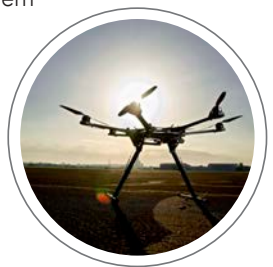
This former citywide kite festival became a statewide effort in 2017. Spanning 11 Oklahoma counties, 72 schools and 16,000 kites, OK Kite Fest is a high-flying adventure across the state, which included curriculum, supplies and lots of fun designing, problem solving and flying.

FLIGHT NIGHT DRONE COMPETITION EXPANDS TO ELEMENTARY

New this year, the drone competition that prepares middle- and high-school students to become problem solvers expands to also include elementary schoolers. Hundreds of these kids will design, build and maneuver flying robots through cleverly designed obstacle courses at the November competition. Another uplifting aspect of the program: More than 70 educators will have participated in related professional development by the end of 2017.

FLIGHT NIGHT SPACE WEEK

Space Week 2017 included fun and educational events for 12,000 students from Owasso, Broken Arrow, Union, Sapulpa, Tulsa Public Schools and Jenks. Activities included The Space Foundation's Audience with an Astronaut – featuring real NASA astronauts Col. Paul S. Lockhart and Lt. Col. Duane G. 'Digger' Carey; a special screening of Hidden Figures, a community night at Tulsa Air & Space Museum, STEM-related kids' activities, a downlink with the International Space Station and related continuing education for teachers. In 2018, Space Week is set to engage middle-schoolers, as well.



NEW IN 2017:

FLIGHT NIGHT ROCKETS TO SPACE!

Area schools become their own combo scientific-research and mission-command centers with students designing and launching experiments into microgravity to test the theory of transformative change. Offering both curriculum and associated professional development, you'll want to follow us at #PoweredbyFlightNight for updates on this fun, curiosity-sparking endeavor.



THANK YOU TO OUR 2016 SPONSORS

\$50,000 - \$15,000

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Thank you for supporting STEM education in our community.



SAVE THE DATE FOR FLIGHT NIGHT 2018

THURSDAY, SEPTEMBER 13

Thanks to our enthusiastic patrons, Flight Night 2017 was SOLD OUT!

Make plans now to attend the fifth annual Flight Night, featuring an outdoor reception with live aerial entertainment, followed by dinner, a live auction and award presentations. With your support, we'll continue to inspire, educate and empower today's students and tomorrow's tech-savvy workforce.

Sponsorship Information: TulsaFlightNight.org

