



STARBASE Minnesota

STARBASE Minnesota is: a 501(c)3 nonprofit organization, founded in 1993 whose mission is to educate and inspire youth in science, technology, engineering and math (STEM). Since 1993, STARBASE has served over 55,000 Twin Cities' youth. STARBASE is a program of the Department of Defense and Minnesota National Guard who provide a state of the art facility, access to an exciting, technology-rich environment, inkind services and volunteers. STARBASE partners with six area school districts to provide STEM programming; 18 local STEM corporations partner to provide financial/inkind support, and volunteer scientist and engineers to programs. STARBASE has an 18-member Board of Directors with backgrounds in business, education, military and government. There are 59 STARBASE locations in the U.S. in 31 states.



STARBASE Minnesota provided: immersive five-day, 20-25 hour STEM programs for grades 4-5, with authentic and engaging learning aligned to standards. STARBASE also supported STEM learning long after STARBASE through the STARBASE Clubhouse, STEM Pathways initiative and provided volunteer mentors for after-school STEM programs through STARBASE 2.0. STARBASE partners with area colleges and universities to provide field experiences for future educators increasing student and future impact on classrooms exponentially.

STARBASE served a record 3,595 students in FY16 from over 30 Twin Cities schools:

Male	Female	Low income	ELL	African Amer	Asian Amer	Caucasian	Hispanic	Native Amer	Multi-Racial
50%	50%	63%	33%	24%	21%	26%	19%	1%	9%

FY16 Student & Teacher Results: (measured by pre and post tests; surveys and evaluations

- 97% students increased knowledge / skills in science, math, technology and engineering
- Average pre/post improvement: 4th gr:35 percentage pt gain; 5th gr:36 ppt gain; summer:36 ppt gain
- 97% students reported STARBASE made learning fun; 91% have increased interest in STEM
- 94% classroom teachers reported gains in own knowledge/teaching skills
- 92% teachers rated STARBASE excellent; 8% very good; 100% want to return.
- 8-10 years later, 99% of former STARBASE students surveyed thought STARBASE was valuable learning experience; 83% felt the program helped them understand STEM better and 79% said it increased their interest in STEM; additional positive impacts on graduation and college enrollment. *See full study conducted by Wilder Research.*

FY16 Educator and Volunteer Participation:

- 91 military volunteered 433 hours, assisting with graduations, tours, rocket launching, mentoring.
- 122 corporate scientists/engineers volunteered 600 hours, demoing “real world” STEM/careers.
- 203 educators participated 4,060 hours in the program, bringing STEM learning back to schools.
- 473 parents volunteered 2,090 hours assisting in the classroom, bringing STEM learning home.
- 48 pre-service teachers in college participated in over 430 hours of observation/field experiences.

Funding to STARBASE in FY16:

- Department of Defense; 3M; BAE Systems; Boston Scientific; Ecolab; Microsoft; Medtronic; St. Jude Medical; Seagate; Xcel Energy; UTC Aerospace; State of Minnesota and individual donors.
- Significant inkind products and services valued at \$817,347 donated by Microsoft, Delta Air Lines and Stratasys.