

STARBASE Minnesota-Duluth FY 22 Overview & Annual Results



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 72,000 Twin Cities' youth and since 2017 almost 7,700 students have participated in the STARBASE Duluth program. 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, in-kind services, and volunteers. STARBASE partners with area school districts to provide STEM programming, corporate partners that provide financial/in-kind support, and volunteer scientists and engineers to programs. STARBASE Minnesota operates two robust STEM programs. STARBASE Minnesota St. Paul operates out of the 133rd Airlift Wing and STARBASE Minnesota-Duluth provides programming on the 148th Fighter Wing. STARBASE has a 23-member Board of Directors and 11-member Duluth Advisory Board with backgrounds in business, education, military, and government. There are 78 STARBASE locations in the U.S. in 34 states, Puerto Rico and Guam.



STARBASE Minnesota provides: immersive five-day, 25-hour STEM programs for area 5th graders, with authentic, rigorous, and engaging learning aligned to standards. STARBASE also supports STEM learning in the summer with a four-week STARBASE Explorers program serving an additional 322 students from around the region and includes youth organizations such as Family Freedom Center, Fond du Lac Ojibwe School, and Neighborhood Youth Services.

In FY22, STARBASE served 2,368 students from 40 schools across a 500 square-mile area of the Northland region. In the coming year, STARBASE will serve over 2,400 students from 44 schools and 20 districts in Northeastern Minnesota.

STARBASE Minnesota-Duluth Student Demographics (<1% unreported)

Male	Female	Non-Binary	Low Income	ELL	African American	Asian American	Hispanic	Native American	White	Multiracial
51%	48%	1%	24%	<1%	2.5%	1%	2.7%	6.7%	81%	6%

FY22 Student & Teacher Results: (measured by pre and posttests; surveys and evaluations)

- 96% of students increased knowledge/skills in science, technology, engineering, and math
- 49% average improvement pre to posttest
- 96% students reported STARBASE made learning fun; 84% have increased interest in STEM
- Additional pre/post student survey data reflected exceeding targets for positive change in attitude toward STEM, confidence in their STEM abilities, a broader view of themselves in STEM, and the STEM careers they have interest in pursuing
- 97% classroom teachers reported gains in own knowledge/teaching skills

- 100% teachers rated STARBASE excellent (94%) or very good (6%); 98% want to return

FY22 Educator and Volunteer Participation

- 15 military volunteered 37 hours at graduations and tours
- 29 corporate scientists/engineers volunteered 62 hours as ceremony presenters
- 110 educators participated 2,117 hours in the program, bringing STEM learning back to schools
- 51 parents contributed 545 hours supporting student learning
- 20 community members and STARBASE Minnesota-Duluth Advisory Board volunteered 234 hours

Thank you to STARBASE Minnesota Funders in FY22: Department of Defense, State of Minnesota; Individual Donors; Additional financial support from: Cirrus Aircraft (\$10,000), Barr Engineering (\$2,327). Summer Camp sponsors: Kraus Anderson (\$1,500), Bell Bank (\$1,000), Cirrus (\$1,000), American Peat Technology (\$500), P&R Companies (\$500), Blue Cross Blue Shield (\$250), Cartier Agency (\$250), Jamar (\$250), and Minnesota Power (\$250). Additional in-kind products or services donated by Kraus Anderson (\$16,000), 3M (\$2,375), Stratasys (\$2,730), and Advantage Emblem (\$600), Thank you for investing in our mission of educating and inspiring Minnesota youth in STEM!

Below is a list of school districts that participated in the STARBASE program for the 2021-2022 school year.

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| <ul style="list-style-type: none"> • Barnum School District • Carlton School District • Chisholm School District • Cloquet School District • Duluth School District • Duluth Edison Charter Schools • Twin Ports area home school students • Duluth & Cloquet Catholic Schools • Esko School District • Fond du Lac Ojibwe School • Hermantown School District • Hibbing School District | <ul style="list-style-type: none"> • Hinckley-Finlayson School District • Many Rivers Montessori • Marshall School • Mesabi East School District (Aurora) • Moose Lake School District • Mountain Iron Buhl School District • North Shore Community School • Proctor School District (all schools) • Rockridge School District (Virginia/Gilbert) • St. Louis County School District (Babbitt, Cook, Culver, Tower) • Wrenshall School District |
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