

# STARBASE Minnesota-Duluth FY 21 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 68,000 Twin Cities' youth and since 2017 over 4,700 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 133<sup>rd</sup> Airlift Wing and STARBASE Minnesota-Duluth provides programming on the 148<sup>th</sup> 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 33 states, Puerto Rico and Guam.



**STARBASE Minnesota provides:** immersive five-day, 25-hour STEM programs for area 5<sup>th</sup> 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 320 students from around the region and also includes youth organizations such as Family Freedom Center, Fond du Lac Ojibwe School, and YMCA KeyZone.

In FY21, STARBASE served 1,176 students from 17 schools in Duluth and across the northland region. In the coming year, STARBASE will serve over 2,300 students from 39 schools and 19 districts across a 400-square mile service area in Northeastern Minnesota.

## STARBASE Minnesota-Duluth Student Demographics\* (6.5% unreported)

Male	Female	Low Income	ELL	African American	Asian American	Hispanic	Native American	White	Multiracial
53%	47%	28%	<1%	4.5%	1.5%	2.5%	4%	77%	4%

**FY21 Student & Teacher Results:** (measured by pre and posttests; surveys and evaluations)

- 93% students increased knowledge/skills in science, technology, engineering, and math
- 50% average improvement pre to posttest
- 96% students reported STARBASE made learning fun; 85% 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
- 100% classroom teachers reported gains in own knowledge/teaching skills

- 100% teachers rated STARBASE excellent (91%) or very good (9%); 100% want to return

**FY21 Educator and Volunteer Participation\*:** (participation numbers impacted by COVID-19 when volunteerism suspended)

- 21 military volunteered 63 hours at graduations and tours
- 17 corporate scientists/engineers volunteered 29 hours as ceremony presenters
- 52 educators participated 1,336 hours in the program, bringing STEM learning back to schools
- 7 parents and community volunteers contributed 175 hours supporting student learning
- 11 STARBASE Minnesota-Duluth Advisory Board members volunteered 76 hours

**Thank you to STARBASE Minnesota Funders in FY21:** Department of Defense, State of Minnesota; Individual Donors; Additional financial support from: Cirrus Aircraft (\$25,000), Enbridge (\$25,000), Essentia Health (\$25,000), Barr Engineering (\$6,713). Summer Camp sponsors: Saturn Systems (\$1,000), Blue Cross Blue Shield (\$500), American Peat Technology (\$500), Kraus Anderson Construction (\$500), Cartier Agency (\$250). Additional in-kind products donated by 3M (\$8,788), Advantage Emblem (\$600), Stratasys (\$2,990). Thank you for investing in our mission of educating and inspiring Minnesota youth in STEM!

Below is a list of school that participated in the STARBASE program for the 2020-2021 school year.

- Cloquet Middle School
- ISD 709 (Duluth all schools)
- Edison: Raleigh Charter School (Duluth)
- Falls Elementary (International Falls)
- Duluth area home school students
- Lakeview Christian Academy
- Lincoln Elementary (Hibbing)
- Many Rivers Montessori
- Mesabi East Elementary (Aurora)
- Moose Lake Elementary
- North Shore Community School
- Northwoods Elementary (Cook)
- Northeast Range (Babbitt)
- Proctor School District (all schools)
- South Terrace Elementary (Carlton)
- Winterquist Elementary (Esko)

