

GA Sciences Education Foundation Education Outreach Overview

Improving STEM (Science Technology Engineering Mathematics) Education for K-12 Students in San Diego and Beyond

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Outline

- **Brief history**
 - **GA education outreach**
 - **General Atomics Sciences Education Foundation (GASEF)**
- **GASSSS (GA Scientists/Engineers Supporting Science/Engineering for Students)**
- **Chapter One reading tutoring program**
- **Education resources**
- **Supporting regional non-profits**
- **Connecting GA STEM expertise to the K-12 STEM education community**
- **GA&A Education Teams site**

General Atomics Education Outreach - A Brief History (www.sci-ed-ga.org/about)

- Education outreach initiated by Anne Blue and Pat Winter in 1992
 - Development of educational materials and teacher workshops
- Non-profit GA Sciences Education Foundation (GASEF) started in 1995 (Neal Blue and Anne Blue founders)
 - Support GA K-12 STEM outreach efforts
- GASSSS program started in 2010
 - Catalyze employee outreach
- Chapter One (formerly TutorMate) program brought to GA in 2017
 - Nationwide non-profit program that connects companies to first graders in need of reading assistance
- Extensive Fusion Education Outreach Program
 - <http://fusioned.gat.com>

The General Atomics Sciences Education Foundation

Actively involved in improving K-12 science and engineering education since 1992

News



The General Atomics Sciences Education Foundation

The General Atomics Sciences Education Foundation has been actively involved in improving K-12 science and engineering education since 1992 by providing outreach support to GA employees, funding STEM non-profit organizations, and developing educational resources.

The Foundation supports employees to engage in education outreach via the GASSSS program, where they can receive a charge number for up to 9 hours as well as reimbursement for up to \$500 in STEM purchases per calendar year. For additional information, see the GASSSS Details

Registration is still open for Chapter One

Registration is still open for the Chapter One tutoring program to help at-risk first grade students learn to read. Registration will close on 12/31/2024. [Register Here](#)

Outreach Materials

The Foundation has created a resource room to support employees involved in education outreach and the GASSSS program. Please visit A20/2008 to see many different types of educational resources available to employees or visit the [Outreach Materials](#) site.

GASEF Funding Awards November 2024

On November 5, 2024, the General Atomics Sciences Education Foundation announced that it has provided \$53,500 in funding for 12 STEM non-profits and programs. Click [here](#), for more information about these recent awards and [here](#) for an archive of previous awards.

The General Atomics Sciences Education Foundation received the [San Diego Section of American Institute of Aeronautics and Astronautics Outstanding Corporate Contribution to the Community Award for 2024](#).



GASSSS

Employees can contribute their science and engineering skills by participating in the GASSSS (GA Scientists/Engineers Supporting Science/Engineering for Students) program. Employees are reimbursed for purchases.

[Learn More](#)



Chapter One

Employees can volunteer as on-line reading tutors to at-risk 1st graders via the Chapter One program. The tutoring is done from your desk for 30 minutes per week, and includes the reading of science stories.

[Learn More](#)



Education Resources

GA scientists have developed education modules, education presentations, hands-on materials, posters, and have published articles.

[Learn More](#)



Funding Guidelines for Non-Profits

The Foundation provides a limited number of grants, mostly to regional science related non-profits. Guidelines for requesting support are provided here.

[Learn More](#)

Welcome to Education Outreach:

[Click Here To Start!](#)

[GASSSS Program](http://www.sci-ed-ga.org/gassss): www.sci-ed-ga.org/gassss

- Open to all GA employees
- GASSSS has 2 components
 - Employee must actively perform K-12 STEM activity
 - GASEF will provide
 - Up to \$500 yearly reimbursement for STEM purchases
 - Charge number for up to 9 hours yearly
- GA employee activity determined by the employee interacting with the teacher/students
 - Assist teacher in science activity
 - Perform demonstration
 - Talk about career
- Also hours support for college/university career mentoring/presentations
- On-line application form on GASSSS site

GASSSS Addresses STEM Needs

- **Expose students to scientists and engineers**
 - **Attract students into STEM careers**
- **Create community of interaction between teachers and scientists/engineers**
- **Provide real life examples**
 - **Demonstrate scientific and engineering practices**
- **Improve content knowledge of teachers**
- **Provide a mechanism for GA employees to help their communities**
- **Well-received and supported by GA&A scientists and engineers**

GASSSS Program: www.sci-ed-ga.org/gassss

SCIENCES EDUCATION FOUNDATION
GENERAL ATOMICS

HOME ABOUT GASSSS CHAPTER ONE RESOURCES FUNDING SUPPORT CONTACT U

GASSSS

WELCOME TO EDUCATION OUTREACH

GA PARTICIPANTS IN GASSSS PROGRAM

VIDEOS, PHOTOS, WEBSITES ABOUT GA

GASSSS PRESENTATIONS

EDUCATIONAL MATERIALS AND EQUIPMENT FOR OUTREACH USE

CURRICULUM RESOURCES FOR CLASSROOM ACTIVITIES

SCIENCE EDUCATION OUTREACH OPPORTUNITIES

GASSSS

GA Scientists/Engineers Supporting Science/Engineering for Students (GASSSS) Program

Welcome to Education Outreach:
[Click Here To Start!](#)

GA employees can contribute their expertise and enthusiasm for science and engineering by participating in the GASSSS K-12 education outreach program. The Foundation will reimburse the employee for associated material purchases of up to \$500 and provide a charge number for up to 9 hours per calendar year. The GASSSS program will also provide a charge number of up to 9 hours per calendar year for career mentoring of college and university students. For additional information, see the GASSSS Details and Application Form below.

For new GASSSS applications please always use the most recent GASSSS application form, which is shown below.

GASSSS

- *****[GASSSS Application Form \(Online Form\)](#)**
- [Media Consent Form for use of photos](#)
- [GASSSS Matchmaker – Matches GA Employees and Educators \(PDF\)](#)
- [GASEF–GASSSS Introduction \(PDF\)](#)

<https://www.sci-ed-ga.org/gassss/educational-materials-and-equipment-outreach>

 [Bambu Lab P1P 3D Printer. The Set Up and Operation Guide is \[here\]\(#\) \(PDF\)](#)

 [ASI](#),  [EMS](#), and  [Energy Product Cards](#) (PDF)

 [ASI](#),  [EMS](#), and  [Energy Product Cards](#) (PowerPoint)

 [GA&A Career Card](#) (PDF)

 [GA&A Career Card](#) (PowerPoint)

 [GA Sciences Education Foundation Card](#) (PDF)

 [GA Sciences Education Foundation Card](#) (PowerPoint)

5 x 7 inch 2-sided Product Cards can be provided to GA employees for outreach (contact Larry Woolf)

 [4-H Drone Discovery: 3 Kits](#) (contact Larry Woolf)

[Wind tunnel and instructions for use](#) (PDF)

2 EA Blue 8-foot long tablecloth (contact Larry Woolf if in San Diego area or go to A20/2008); 1 EA Blue 8-foot long tablecloth (contact Brian King (Building AE75-1307) if in High Desert area)

1 EA General Atomics Table Top Overview Display:  [figure 1](#),  [figure 2](#) (contact Larry Woolf if in San Diego area or go to A20/2008); 1 EA General Atomics Table Top Overview Display (contact Brian King (Building AE75-1307) if in High Desert area)

1 EA 3D Printed Predator B MQ-9 model

1 EA 3D Printed Predator C Avenger model

1/40 Scale Grey Eagle

1/40 Scale MQ-9B

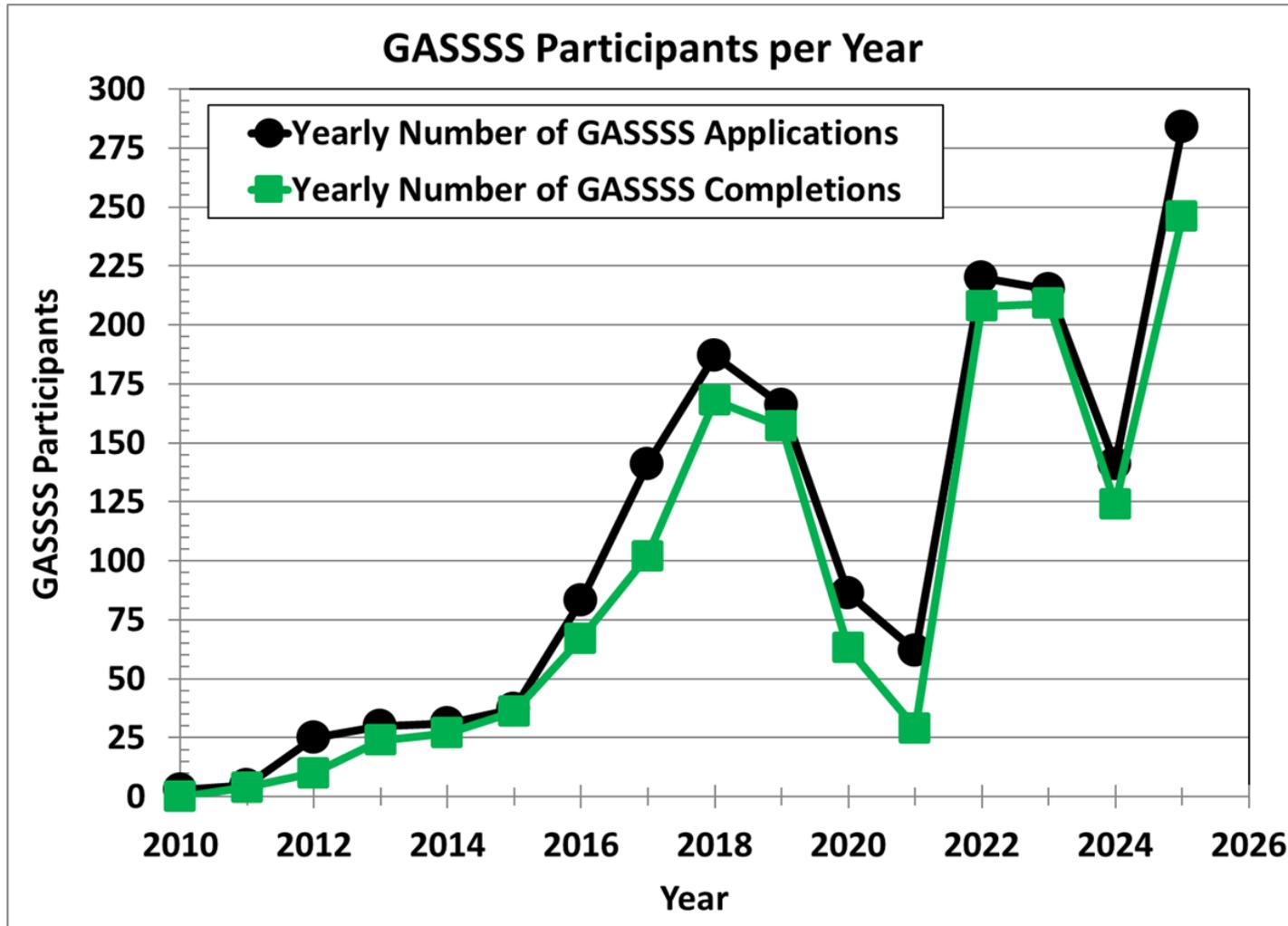
1/40 Scale Avenger-ER

3D Printed Outreach Materials

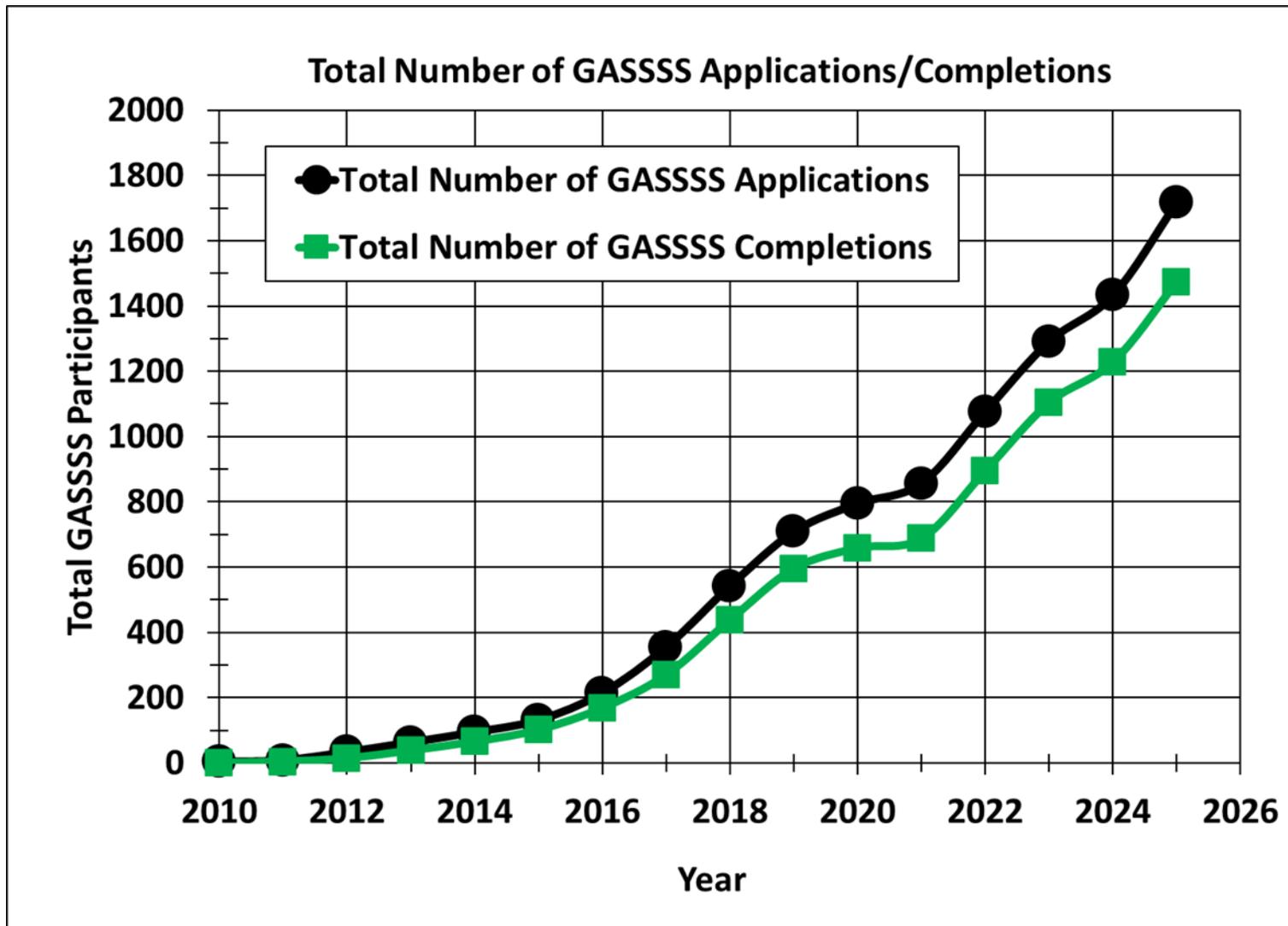
Composite Materials

Plasma balls: 8-inch diameter, plug-in electric ball, touch and sound sensitive (contact Rick Lee or Colin Chrystal)

Yearly GASSSS Participants through 12/31/2025



Cumulative GASSSS Participants through 12/31/2025



Chapter One: <https://www.sci-ed-ga.org/chapter-one/> Help a student learn to read by end of first grade

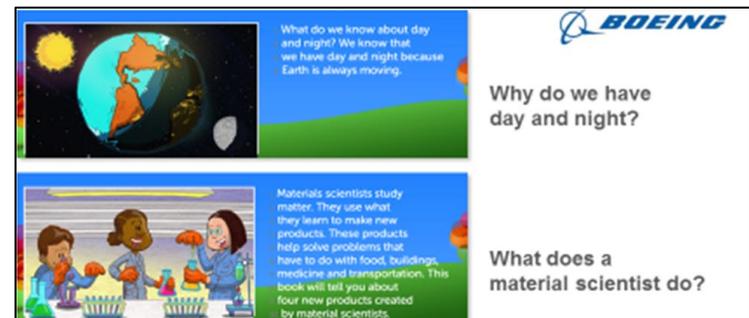
- GASEF partnership with Chapter One, leading on-line non-profit tutoring program
- Focus: fight long-term poverty by improving literacy of at-risk students (first grade); includes STEM stories
- 2017-2025: 177 employees participated
- 2025-2026: 17 employees participating (Atlanta school)

1. Registration details are announced on internal home pages in ~October
2. Complete online background check
3. Complete training session
4. You are then assigned a student to tutor
5. Spend 30 minutes weekly reading with your student from November – May
6. Flexible scheduling, can be changed on a daily basis to meet your needs

CHAPTER ONE

Chapter One registration is now open for the 2025-2026 school year. 20 tutoring slots are available, which will be filled on a first come, first served basis.

- [2025-2026 Chapter One program and registration details](#)
- [Chapter One poster](#)



Connecting GA STEM expertise to the K-12 STEM education community

- New Teams GA&A Education Outreach site lists many current opportunities: [GA&A Education Outreach | General | Microsoft Teams](#)
 - Summary calendar of events: [GA&A Outreach Calendar.xlsx](#)
 - GA employees who want to make their interests and expertise known can post on this site
- Other major on-going outreach opportunities are placed on GASSSS site:
 - <https://www.sci-ed-ga.org/science-education-outreach-opportunities>

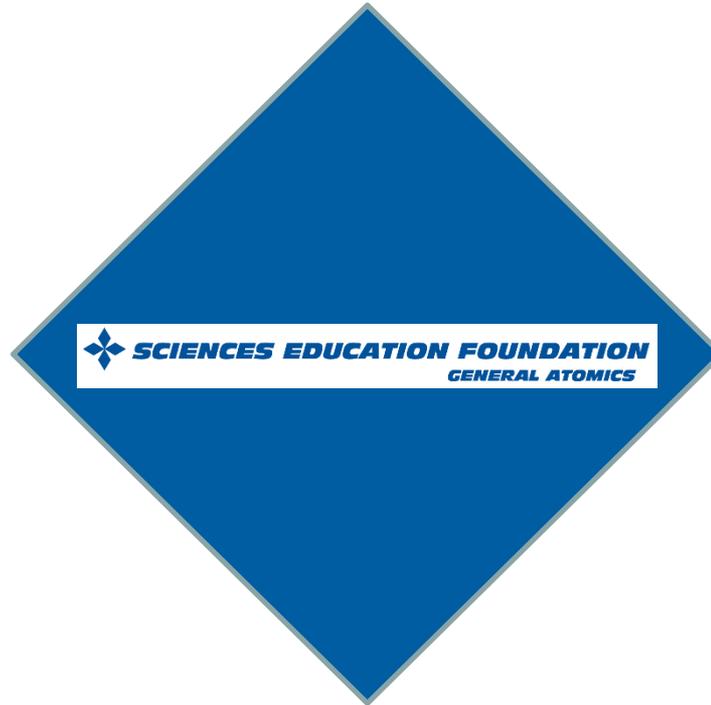
Funding Regional K-12 STEM Non-Profits

- **Since 1999, GASEF has provided over \$1.35M to over 90 regional STEM non-profits, most in the San Diego area**
 - Elementary Institute of Science, Expanding Your Horizons, San Diego Children's Discovery Museum, Greater San Diego Science and Engineering Fair, San Diego Natural History Museum, Science Spark, Boys and Girls Clubs of San Diego,...
 - <https://www.sci-ed-ga.org/about/>
- **Funding Guidelines on Foundation web site**
 - <https://www.sci-ed-ga.org/funding>
- **List of awards since 2018 at**
 - <https://www.sci-ed-ga.org/funding-archive/>
 - Awards are made every ~4 months
- **Funding generally \$1,000 – \$10,000**

Summary

GASSSS

Chapter One



**Funding K-12
STEM Non-Profits**

**Connecting GA to
the K-12 STEM
Community**