

The GA Sciences Education Foundation has provided \$44,000 in funding for STEM education to the following 12 institutions:

1. \$10,000 to the Boys and Girls Clubs of San Diego for their Stepping Stones to STEM Success programs at Clairemont and Logan Heights

Funding will support the implementation of Boys and Girls Clubs of San Diego “Stepping Stones to STEM Success” program at their Clairemont and William J. Oakes Logan Heights branches. Then funds are planned to impact about 400 youth of ages 5-18, 90% of whom at or below poverty level. The program provides the following STEM experiences: The Ultimate Journey (Environmental Education), Into the Great Unknown (Earth & Space), The Energy Crusaders (Energy/Electricity), The Chemical Changes (Chemistry), and All about the Waves (Physics).

2. \$5,000 to the San Diego Children’s Discovery Museum for scholarships and subsidies for STEM workshops

These funds will provide scholarships for 850 – 1,000 children from low-income and Title 1 schools to partake in STEM Workshops either at the Museum or through the Mobile Children’s Museum during 2018. The subsidized workshops allow children to visit the Museum, participate in a guided interactive STEM Workshop and experience free play at the Museum with their classmates. Grant funds will pay for transportation to the Museum, admission, supplies, and labor.

3. \$5,000 to the Elementary Institute of Science for the Girls Take Flight drone training program

These funds will support the San Diego Elementary Institute of Science “Girls Take Flight” drone training program. Funding will support 20 female juniors from low income communities of Southeast San Diego to attend a week-long 7 hr./day drone camp. 10 girls will then participate in an internship program on Fridays and weekends for 32 weeks that culminates in their acquiring a Remote Pilot Airman Certificate from the FAA. Funding will support operating costs such as instructor wages, transportation for field work, materials and supplies. One goal is to provide girls with skills to obtain jobs to help support their attending college.

4. \$5,000 to the Ocean Discovery Institute for the Ocean Discovery Institute Student Initiative

Funds will support expansion of the Student Initiative and will provide 100% tuition-free science education to underserved, urban youth using the Ocean Discovery Institute Living Lab in City Heights. It will help support STEM education to 3,500 public school students, in the 3rd through 7th grades, from the most impoverished and underserved community in the San Diego region, City Heights, over the 2017/2018 school year. Funds will also support curriculum efforts that will expand the program’s reach.

5. \$5,000 to the EnCorps STEM Teachers Program

Funding will support the EnCorps Teaching Fellowship program in San Diego that recruits, selects and trains the nation’s top STEM professionals to teach in high needs public schools. By June 2018, EnCorps will select 25 new STEM professionals to join the San Diego Teaching Fellowship. These funds will sponsor one “General Atomics Fellow” in San Diego.

6. \$4,000 to the MCRD Marine Corps Museum Foundation for a Medical career exhibit at the Museum

Funding will support the installation of a new exhibit to the MCRD Marine Corps Museum to highlight STEM related career fields in the Navy/Marines, particularly corpsmen medical and dental officers. The museum educates about 1200 students annually with 200,00 visitors. Their Leaders of Tomorrow education program (tours, classes, workshops, field trips) gives priority to Title 1 schools.

7. \$3,000 to the Greater San Diego Science and Engineering Fair for Silver level corporate sponsorship of the 2019 Fair

These funds will support the general operations of the Greater San Diego Science and Engineering Fair.

8. \$2,500 to the Birch Aquarium at UCSD for their Ocean Science Education Fund

These funds will support of the Ocean Science Education Fund at the UCSD Scripps Birch Aquarium that will provide optimal instructor availability for individual students and classrooms, maintain and upgrade specialized equipment, and will assure access for students and schools regardless of financial limitations. Funding will provide economically disadvantaged K-12 students access to high-quality, hands-on, scientific education opportunities that align with NGSS. More than 60% of the students served are from hyper-poverty or Title I schools.

9. \$2,500 to the San Diego Natural History Museum for their Museum Access Fund Science Outreach Program

Funding for the Museum Access Fund (MAF) Science Outreach Program will allow 200 K-8 San Diego county students from Title I schools to access the California Common Core State Standards based education that is delivered in the Museum and in the schools. These funds will make the museum's outstanding programs available to students whose schools do not have the financial means to participate otherwise

10. \$1,000 to the MIT Beaver Works Summer Institute

Funding will support the MIT Beaver Works summer institute, which is aimed at exceptional high school students. 2018 projects planned include Autonomous RACECAR, Autonomous UAV, Cognitive Assistant, Hacking a 3D Printer, AI for Medical Challenge, Fake News Hackathon, Embedded System Cyber Capture-the-Flag, CubeSat, and UAV SAR (Synthetic Aperture Radar). The program is provided at no cost to students for the 4 weeks program at MIT. Many students are from out of state high schools. The program is taught by MIT, Lincoln Laboratory, and JPL instructors, professors, industry engineers, and grad students.

11. \$1,000 to The New Children's Museum for their Innovator's Lab makerspace studio

These funds will support The New Children's Museum Innovator's Lab makerspace studio during 2018 and will support the development of Design Challenges with the Teaching Artist team in conjunction with local artists and STEM industry experts. These Design Challenges provide open-ended, skill-building projects that explore real world issues, targeting children ages 7-13 years and providing opportunities to experiment with a variety of hands-on techniques and ideas.

12. \$600 to the UCSD Society of Hispanic Professional Engineers for the Empower high school conference

Funding provides Gold level sponsorship of the 5/19/18 Empower engineering based high school conference held at UCSD. High school students from low- income underrepresented communities in San Diego will spend a day with an engineering undergrad, perform engineering activities, tour the campus, and discuss college related topics such as admissions. There is a current lack of representation of minorities in the STEM workforce which this conference addresses by exposing young students to undergraduates, professionals, and professors that came from similar backgrounds as them. GA engineers will be present at a table and will speak at the closing ceremony.

Since 1995, the [General Atomics Sciences Education Foundation](#) has provided support for K-12 science education projects, and has given over \$326,000 to science education non-profit agencies in San Diego

and other locations to improve elementary, middle, and high school science. For more details, please visit: <http://www.sci-ed-ga.org/about>

The Foundation also supports STEM outreach for GA&A employees via the [GASSS and TutorMate](#) programs.