



Greater San Diego Science & Engineering Fair 2019

Do you have curious and creative students?
Do you want to integrate inquiry-based learning, NGSS, and math/literacy skills?
Have you been looking for a way to showcase your students' talents?

PARTICIPATION IN THE SCIENCE/ENGINEERING FAIR IS THE ANSWER!

BENEFITS FOR STUDENTS TO DO A SCIENCE FAIR PROJECT:

- They have the opportunity to discover, explore, experiment, and build based on their own interests and curiosity.
- They do “real” research in the “real” world.
- They get a sense of accomplishment and increased confidence.
- They develop critical thinking and improved communication skills.
- They have the opportunity to discuss their research with industry experts - scientists, doctors, engineers, computer scientists, and mathematicians.
- They can include science fair participation in their college and scholarship applications.
- They can win awards, prizes, scholarships, as well as go on to other science and engineering competitions.
- Their research or engineering design could make a positive impact in making the world a better place.



Since 1954, the GREATER SAN DIEGO SCIENCE & ENGINEERING FAIR (GSDSEF) has provided an inspiring experience in science and engineering for tens of thousands of San Diego County and Imperial County students, motivating them to pursue careers in science, technology, engineering, and mathematics. This regional competition challenges students to go beyond classroom studies to do independent research – to ask compelling questions, to design and implement innovative solutions, and to present and defend results to judges who are professionals in their fields.

The GSDSEF fosters creativity and innovation through inquiry, celebrates students' STEM achievements, and showcases how young minds can make an impact in the present and future.

Participation produces memories for a lifetime—for teachers and students!!

JOIN US for our Informational Workshop
for **new science/engineering fair teachers**

Wednesday, May 23, 2018

4:30 – 5:30 pm

San Diego County Office of Education

Room 306

6401 Linda Vista Rd.

San Diego, 92111

To attend in person, go to gsdsef.org to
sign up

Or

Join our Livestream on Facebook

[@sandiegosciencefair](https://www.facebook.com/sandiegosciencefair)



AVAILABLE RESOURCES

Workshops for Students, Teachers, and Parents

e-Advice and e-Mentoring

Student & Teacher Resources on the GSDSEF Website

Plans for “Adopt-a-School” Sponsored by





REASONS FOR TEACHERS TO SUPPORT A SCIENCE FAIR

- Provide meaningful hands-on learning experiences for students of ALL ability levels.
- Encourage young minds to wonder, discover, and explore.
- Promote a deep, lifelong interest for STEM.
- Encourage students to be independent learners and use open inquiry.
- Provide opportunities and supporting “real” world research.
- Integrate reading, writing, math, statistics, technology/computer science, critical thinking, logic, art, and presentation skills with science and/or engineering principles.
- Integrate 21st century skills, NGSS, and the Common Core Standards in a consequential way.
- Inspire the next generation of scientists, doctors, engineers, and technology experts!



ALL STUDENTS ARE WINNERS!

How the GSDSEF Works

- In August/September, middle and high school students decide on a science, engineering, computer science or math project, and conduct their research in one of 16 categories.
- In January, 30 screeners review science and engineering projects from all over San Diego and Imperial Counties and the projects and recommend those to apply to the GSDSEF.
- In March, 400 judges from the science and education community interview students and evaluate students for place awards at the Balboa Park Activity Center.
- At the Awards Ceremony, over 1200 students, family members, and community leaders cheer as students receive their place award ribbons on stage.
- ALL students in the GSDSEF receive a place award (1st, 2nd, 3rd, or 4th) on stage.
- Over 60 professional societies and organizations provide more than 150 awards and scholarships totalling over \$20,000.
- Special Awards and scholarships are presented on stage.
- 1st place students can qualify for participation in Broadcomm MASTERS, the California Science and Engineering Fair, and the International Science and Engineering Fair.
- Each student receives a Certificate of Merit.
- Student exhibitors have opportunities to go on tours of museums, the San Diego Zoo, and other science venues.
- During Science Fair Week, projects are exhibited at the Balboa Park Activity Center (BPAC) for public viewing.
- Students can be a part of the Student Advisory Board and develop their leadership skills at the county level.



2018 GSDSEF Success

- Over 600 students from San Diego and Imperial County participated in the GSDSEF
- 89 students qualified for the California Science and Engineering Fair
- 4 students qualified for the INTEL International Science and Engineering Fair to be held in May in Pittsburgh, PA
- 60 students qualified for Broadcom MASTERS

Science Fair and the NGSS Alignment

When students do science/engineering/computer science projects, they use ALL of the skills described in the Science and Engineering Practices (SEP) of the Next Generation Science Standards.

