



California Science and Engineering Fair, 2021 Special and Recognition Awards

The California Science and Engineering Fair (CSEF) provides two types of awards. Category Awards are given in each of the Fair's 21 Junior Division and 15 Senior Division Categories, through judging by several dozen panels of experts recruited by CSEF. Concurrent with these Category Awards, Special and Recognition Awards are presented by outside Sponsor organizations ranging across universities, non-profits, and commercial groups interested in supporting scientific and engineering accomplishments among California students.

These Special and Recognition Award Sponsors provide monetary awards and their own expert judges who study projects and interview students. Sponsors determine their award criteria and recipients, subject only to the overriding requirement that award selection must be based on bona fide scientific merit.

For the 2021 California Science and Engineering Fair, Sponsors presented 14 Special Awards valued at \$22,500 and 40 Recognition Awards valued at \$9,900, for a total of \$32,400. The Fair thanks our Sponsors for their generosity and commitment.

For information about becoming a Sponsor, contact Bob Anderson, CSEF Director of Special and Recognition Awards, at CSEFExtAwards@gmail.com.

Special Awards

Cheryl Saban Self-Worth Foundation Scholar Prizes – For the top projects by a female scholar providing a positive impact to her community. Presented by the Cheryl Saban Self-Worth Foundation for Women and Girls.

\$1,500 Junior Division First Place Award: J-11-02, Unnati Seshadri

\$1,250 Junior Division Second Place Award: J-20-15, Clara Kerr

\$2,000 Senior Division First Place Award: S-11-15, Jacqueline Prawira

\$1,500 Senior Division Second Place Award: S-12-09, Shaivi Shah

Herbalife Nutrition Award – For excellence in nutrition science. Presented by Herbalife Nutrition.

\$1,500 Nutrition Award: J-19-03, Lara Randhawa

Math Teacher's Awards for Achievement – For achievement in mathematics and computer science studies as a tribute and to show appreciation for all mathematics teaching professionals. Presented anonymously by a generous donor.

\$1,750 Junior Division Mathematical Sciences Award: J-14-13, Anika Bhat

\$2,500 Senior Division Mathematical Sciences Award: S-14-05, Jessica Zhang

\$2,500 Senior Division Computational Systems & Analysis Award: S-08-44,
Aakarsh Vermani

Raytheon Technology Engineering & Math Special Awards – For Junior Division projects demonstrating technological innovation in computer science, mathematics, electrical engineering, materials engineering, mechanical engineering, or physics. Presented by the Raytheon Asian Pacific Association.

\$1,250 Electronics & Electromagnetics Award: J-10-26, Tarini Neeladaran

\$1,250 Materials Science Award: J-13-04, Luca Younes

\$1,250 Physics & Astronomy Award: J-17-02, Sahana Sri



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Southern California National BioGENEius Award – For outstanding original and independent research in the biosciences, including the opportunity to participate in the International BioGENEius Competition at the Biotechnology Innovation Organization meeting. Presented by the Southern California Biomedical Council (SoCalBio).

\$1,250 Senior Division SoCal BioGENEius Award: S-05-25, Jason Apostol

South Coast AQMD Air Quality Awards – For projects that explain measurement or reduction of air pollution and health effects thereof. Presented by the South Coast Air Quality Management District.

\$1,500 Junior Division Air Quality Award: J-14-13, Anika Bhat

\$1,500 Senior Division Air Quality Award: S-03-13, Jordan Prawira

Recognition Awards

A&WMA Steve Menkus Environmental Leadership Awards – For exceptional projects that enhance the knowledge and understanding of environmental issues. Presented by the Air and Waste Management Association, West Coast Section.

\$250 Junior Division Environmental Engineering Award: J-11-22,
Sowmya Sundar

\$250 Senior Division Environmental Engineering Award: S-11-19,
Bella Rose Schremmer

\$250 Senior Division Environmental Science Award: S-09-34, Rohan Gulati

AACC Clinical Chemistry Awards – For innovative projects that may impact diagnostic testing in healthcare. Presented by the Southern California Section of the American Association for Clinical Chemistry (AACC).

\$200 Junior Division Biochemistry/Molecular Biology Award: J-05-01, Meera Iyer

\$200 Junior Division Chemistry Award: J-06-06, Aditi Kiran

\$200 Junior Division Toxicology Award: J-21-06, Tarek Aref

\$200 Senior Division Biochemistry/Molecular Biology Award: S-05-15,
Ishani Das

\$200 Senior Division Chemistry Award: S-06-04, Eshani Jha

\$200 Senior Division Toxicology Award: S-21-03, Matthew Wang

AIPG Geoscience Awards – For excellence in geological science projects. Presented by the American Institute of Professional Geologists, California Section.

\$250 First Place Geoscience Award: S09-02, Ayush Agrawal

\$150 Second Place Geoscience Award: S09-03, the team of Anneli Macdonald and
Mathilde Macdonald

\$100 Third Place Geoscience Award: J09-48, Vivian Dang

Broadcom Coding with Commitment Award – For the project that best demonstrates a combination of STEM knowledge, computation/coding, and passion for helping the community, including a Raspberry Pi Foundation Official RP400 Personal Computer Kit. Presented by the Broadcom Foundation.

\$250 Coding with Commitment Award: J-10-12, Carina Gross



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CAPS Science Achievement Award – For the project that illustrates good scientific methodology in physics, chemistry, biological sciences, biochemistry, environmental sciences, plant sciences, or energy resources. Presented by the California Association of Professional Scientists (CAPS).

\$100 Science Achievement Award: S-06-07, Alexander Gu

CSBPA Best Coastal Science Awards – For achievement in coastal and ocean science, including student membership in the American Shore and Beach Preservation Association (ASBPA). Presented by the California Shore and Beach Preservation Association (CSBPA).

\$250 Junior Division Best Coastal Science Award: J-19-06, Dylan Turzak

\$500 Senior Division Best Coastal Science Award: S-11-26, Sriram Bhimaraju

Director's Award for Most Innovative Alternative Energy Project – For the project that incorporates the most innovative alternative energy concept and analysis. Presented by Bob Anderson, CSEF Director of Special and Recognition Awards.

\$200 Most Innovative Alternative Energy Award: J-02-04, Ibraheem Abdussalam

Drs. S. & C.C. Kar Award – For students with excellence in original idea and scientific thinking, passion for a career in healthcare field, in depth knowledge and presentation of the science project. Presented by the Sheila Kar Health Foundation.

\$1,000 Drs. S. & C.C. Kar Award: S-15-13, Melissa Qin

Lemelson Early Inventor Prize – For the best young inventor creating a promising solution to real-world problems. Presented by The Lemelson Foundation in partnership with the Society for Science.

\$100 Early Inventor Award: J-01-08, Zach Matise

Plug In America EV Excellence Awards – For the best project demonstrating the benefits of plug-in vehicles or advancing the science of vehicle electrification or electric mobility. Presented by Plug In America.

\$100 Junior Division EV Excellence Award: J-06-06, Aditi Kiran

\$100 Senior Division EV Excellence Award: S-10-12, Maya Tovar

\$100 Senior Division EV Excellence Award: S-11-22, Rishabh Ambavanekar

Raytheon Technology Engineering & Math Awards – For Junior Division projects demonstrating technological innovation in computer science, mathematics, electrical engineering, materials engineering, mechanical engineering, or physics. Presented by the Raytheon Asian Pacific Association.

\$250 Applied Mechanics & Structures Award: J-03-08, Peyton Hui

\$250 Electronics & Electromagnetics Award: J-10-18, Lucas Katz

\$250 Mathematical Sciences Award: J-14-07, Nareg Khashaki

\$250 Mathematical Sciences Award: J-14-12, Maia Rocha

\$250 Physics & Astronomy Award: J-17-20, Ilesh Sundar

Regeneron Biomedical Sciences Award 2021 – For the project best demonstrating an impressive command of biomedical sciences and Regeneron's five core values: lead with science; take on big ideas; make it happen; be great together; and do what's right. Presented by Regeneron.

\$500 Biomedical Sciences Award: S-05-25, Jason Apostol



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SPIE Optics and Photonics Awards – For the projects best demonstrating scientific research and engineering applications in optics, photonics, and related fields. Presented by SPIE, the International Society for Optics and Photonics.

\$250 Junior Division First Place Award: J-10-18, Lucas Katz

\$200 Junior Division Second Place Award: J-20-15, Clara Kerr

\$150 Junior Division Third Place Award: J-10-22, Hunter Madden

\$600 Senior Division First Place Award: S-09-28, Aniyah Shen

\$450 Senior Division Second Place Award: S-06-08, Clara Bardeen

\$350 Senior Division Third Place Award: S-08-64, Sydney Badescu

UCLA Brain Research Institute Awards – For research achievement, innovation, and interpretation in any area related to the brain in health and sickness. Presented by the Brain Research Institute (BRI), University of California, Los Angeles.

\$250 Junior Division First Place Award: J-04-21, Paloma Vargas

\$150 Junior Division Second Place Award: J-04-02, Izabela Wilson

\$100 Junior Division Third Place Award: J-04-06, Ella Roberts

\$250 Senior Division First Place Award: S-04-20, team of Spencer He and Ryan Liu

\$150 Senior Division Second Place Award: S-05-30, Amrutha Srivatsav

\$100 Senior Division Third Place Award: S-08-04 Isabella He