

**GSDSEF 2018 PROFESSIONAL SOCIETY AWARD DESCRIPTIONS**

| <b>Awarding Group</b>  | <b>Type of Award</b> | <b>Criteria</b>  | <b>Award Description</b>   |
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| American Chemical Society, San Diego Section                           | Professional Society | The award is based on the following: Creativity of approach (equipment, experimental design); Data quality (sources of error, areas for improvement); Understanding of the science by the student, validity of conclusions; Clarity of exhibit | Students will receive a certificate and a monetary award.  |
| American Institute of Aeronautics and Astronautics - San Diego Section | Professional Society | We are interested in reviewing projects that focus on Aeronautics Science, Space Science, Aeronautics Technology, Space Technology or Earth Science.   | We provide monetary awards to two students, one senior and one junior  |
| American Meteorological Society  | ISEF Affililate      | atmospheric and related oceanic and hydrologic sciences  | certificate  |
| American Psychological Association                                     | ISEF Affililate      |  | certificates   |
| American Society for Non Destructive Testing (San Diego Section)       | Professional Society | Looking for Students whom projects a related to NDT  | Students recieve cash award.   |
| American Society of Civil Engineers                                    | Professional Society | projects that have something to do with civil engineering. This includes building materials, structures, water quality, treatment, environmental, safety, anything at all that might be applicable to the field of civil engineering.          | We select three winners who each receive a blue ribbon, an invitation to a lunch where they bring their project and we present them with a monetary award. |

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| American Society of Heating, Refrigerating, & Air Conditioning Engineers | Professional Society | ASRHAЕ San Diego will be judging exhibits in the Engineering Categories. Specifically we will be judging exhibits dealing with; Air Conditioning, Heating, Refrigerating, Thermodynamics and Sustainable Energy Uses.  | Up to 3 students will each receive a certificate and small monetary award. Presentations will be made in May in the classroom or at the school of each student. Additionally, a monetary donation will be made in September to each of the students' advisers to help prepare for the next GSDSEF                                  |
| American Society of Materials International, San Diego Chapter           | Professional Society | We are looking for an understanding of various materials, how to measure their properties and/or uses in applications to solve engineering or scientific needs.  | Recipient & Family Invitation to Dinner and to present work at our Technical Meeting. Gift certificate and materials interest book or references.  |
| American Society of Mechanical Engineers                                 | Professional Society | ASME is interested in the following projects: Mechanical Engineering Projects, Electro-Mechanical Projects, machines with a mechanical advantage, HVAC related projects, Heat Transfer/Gain, Losses, Conservation of Energy, Thermodynamics, Energy Generation, Thermal Insulation Materials, etc. | ASME will award a framed ASME certificate and a monetary award to one Junior and one Senior student. The student's parents, and Science Fair advisor are invited, at no cost, to the ASME Dinner Awards in April. The students will bring along their project, set it up and be prepared to discuss same with the ASME membership. |
| American Statistical Association, San Diego Chapter                      | Professional Society | We look for senior projects which have a statistics component  | Three or four monetary awards are given.   |

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| Armed Forces Communications and Electronics Association | Professional Society | We only look at the Math, Computer Science, Engineering, and Physics categories. We pay special attention to projects dealing with electronics, robotics, encryption, and communications. (This can be broadly interpreted).                  | Each Senior student received a cash prize. We also select a Sweepstakes prize winner and they receive a substantial monetary award. Ten junior students receive an Individual Membership to the San Diego Air and Space Museum. These students will be asked to give a 5-minute oral presentation at the Museum and we will award at least one all expense paid trip to Space Camp in Huntsville, AL. All of the students will be asked to display their projects at the Annual AFCEA C4I Symposium. They will be recognized during the luncheon on the second day of the Symposium. |
| Association for Women Geoscientists                     | ISEF Affililate      | female only   | certificates   |
| Association for Women in Science San Diego Chapter      | Professional Society | We evaluate all projects submitted by young women and award 8 junior and 6 senior division prizes based on creativity, application of the scientific method, quality of the research and presentation, independence and above all enthusiasm. | Our award winners receive a monetary award, along with a certificate. They receive these awards at a banquet dinner we organize, where the girls can bring their family and advisors, and display their posters. This year, our awards banquet will be in April (date TBD).  |
| ASU Walton Sustainability Solutions Initiatives         | ISEF Affililate      | invitation to higher level comp.  | online certificate   |
| Becton Dickinson  | Professional Society | The award will go to the project that best exemplifies BD's motto: Advancing the World of Health  | The winner will recieve a monetary award and an oppotunity to tour BD.   |
| Biophysical Society                                     | Professional Society | The Biophysics Award is presented for the best biophysics-related project by a high school student.   | A monetary award is given to the winner.   |

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| Buena Vista Audubon   | Professional Society | BVAS will award the projects that best support: Our Mission of Conservation through Education, Advocacy, Land Management, and Monitoring. Must: Proper use of Scientific Method, results applicable to environmental conservation, education, advocacy, land management, and/or monitoring. Bonus for being within BVAS area of Del Mar through Camp Pendleton to Vista.   | A certificate and a monetary award will be given to winners.   |
| Building Industry Association Cares                               | Professional Society | We look at projects that have a construction, home building, housing or landscaping theme.   | Typically give out three monetary awards. Also send a congratulatory letter, a certificate   |
| California Academy of Nutrition and Dietetics, San Diego District | Professional Society | We look for projects that are nutrition-related, have an interesting hypothesis and follow the scientific method well. We like to see that the student understands their project and have clearly done the work themselves   | We choose 2 winners and we honor them at a dinner and present them with each with an award certificates and a gift card for a book store.  |
| California Association of Professional Scientists                 | Professional Society | Individual projects from students in grades 7 through 11 are eligible. The project can be in the areas of can include Physics, Chemistry, Biological Sciences (laboratory, field), Bio-chemistry, Environmental Sciences, Plant Sciences, or Energy Resources, etc. Mathematics, Behavioral Science, Engineering and Computer Science projects are not eligible. Projects should be commendable for good scientific methodology. | The winner will receive a Science Achievement Award plaque and a monetary award. The CAPS winner selected at your Regional Fair will also be eligible to compete in CAPS' statewide Outstanding Young Scientist competition for a chance to win \$1,000. |

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| California Environmental Health Association - Southwest Chapter/County of San Diego, Department of Environmental Health | Professional Society | We are interested in projects related to the field of Environmental Health including but not limited to: Food Safety, Hazardous Materials, Land Use,, Liquid and Solid Waste, Vector Control, Swimming Pool and Housing safety, and Air Quality.  | Up to 3 monetary awards and an invitation to present your project at our spring chapter meeting  |
| California School Nurse Organization: San Diego/Imperial Section  | Professional Society | We look for projects on health related subjects (such as biology, physical body processes, chemistry, exercise, nutrition and mental health). Projects are rated, based on presentation, the testable question, background research, hypothesis, clearly defined variables, appropriate methodology, analysis and conclusion. | A monetary award is presented.   |
| Friends of Famosa Slough  | Professional Society | Awards are made to up to two students who have investigated issues relating to wetlands environment, water quality, and habitat restoration.  | Each student receives a monetary award.  |
| General Atomics Sciences Education Foundation   | Professional Society | We are looking for the best project involving advanced materials, or the innovative use of conventional materials. The project can involve the development of new materials, the study of material properties, or the application of materials in a new or innovative way in the construction of a device or structure.       | The junior and senior division winner will each receive a cash award and certificate. Honorable mention awards for the junior and senior division will consist of a certificate. |
| Hillcrest-Mission Valley Lions Club   | Professional Society | We look for projects concerning vision, optics, audio visual relationships.   | We do two awards, one Junior (7th and 8th grades) and one Senior (9th, 10th, 11th, 12th grades). The awards consist of a recognition plaque and a                                |

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|  |                      |   | monetary award.   |
| Institute of Electrical and Electronics Engineers                  | Professional Society | NOT PROVIDED  | NOT PROVIDED  |
| Intel Excellence in Computer Science                               | ISEF Affililate      | need W-9 by 31 May; 9-12 only   | certificate; cash award   |
| Journal of Youths in Science (JOURNYS), Scripps High School Branch | Professional Society | We judge projects based on: 1) originality, scientific validity, and the appeal of the research topic to a broad audience, 2) the student's understanding and presentation of the project, and 3) the research paper's conciseness and clarity.                         | Winners will have the opportunity to have their paper published in JOURNYS (both online and print) while receiving advice from their peers and professional scientists on our Scientist Review Board. Winners will also receive a certificate commending their achievement and a \$25 Visa Gift Card. |
| Kaiser Permanente  | Professional Society | We award the projects that best apply health care and/or medical science. Our main criterion is how well the project employs scientific approach with independent and original thought. We also consider: innovation, resourcefulness, dedication, logic and knowledge. | Awards - Kaiser Blue Ribbon, Trophies, Monetary awards , Framed certificates, Luncheon  |
| Marine Technology Society  | Professional Society | Our award is for the best marine science project. This includes everything from electronics to coatings to fluid dynamics, energy conservation. It must have interest to the maritime community.  | Three juniors and three seniors each receive a monetary award   |
| Mu Alpha Theta   | ISEF Affililate      | 9-12 only   | certificate   |
| NASA Earth System Award  | ISEF Affililate      | Earth Science   | certificate   |

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| National Oceanic and Atmospheric Administration | ISEF Affililate      | The NOAA Award The NOAA "Taking the Pulse of the Planet" Award is available for a winning student at each ISEF-affiliated regional and state science fair. The award consists of an Award Certificate, Letter of Congratulations, and Medallion. The award is distributed to all ISEF-affiliated regional fairs as part of an package of awards from the Society for Science & the Public, the group which runs ISEF. May be middle or high school | Certificate   |
| Office of Naval Research (USN/ONR))             | ISEF Affililate      | Students must be permanent residents or citizens of the USA. Projects with potential USN applications are strongly encouraged.   | Senior Level: Letter, Medal, Certificate and application to complete within 30 days in order to recieve a monetary award. It is the STUDENT'S RESPONSIBILITY TO COMPLETE AND MAIL THIS FORM. Junior Level: Letter, Medal, Certificate |
| Price-Pottenger Nutrition Foundation            | Professional Society | We look for projects on how food is grown and produced (soil health, vermiculture, composting, home food gardens, etc.), noticeable effects from a natural lifestyle (how food choices affect health and behavior) and related environmental issues.   | NOT PROVIDED  |
| Professional Engineers in California Government | Professional Society | Awards are determined by a consensus of the judging team, from science and engineering related fields.   | We plan on awarding four scholarships.  |
| Ricoh Sustainable Development Award             | ISEF Affililate      | develop new innovations that support the company's goal to spread environmentally and socially responsible business practices  | printable certificate   |

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| San Diego Astronomy Association                               | Professional Society | We are interested in projects on Astronomy, Solar System, or Sky Darkness (anything relating to planets, stars, comets, meteors, etc.)   | SDAA has three monetary awards for astronomy projects plus an a free membership in the SDAA. Winners should expect to briefly present their projects at an SDAA meeting.   |
| San Diego Audubon Society                                     | Professional Society | Awards are made to up to two students who have investigated issues relating to wetlands environment, water quality, and habitat restoration.   | Each student receives a monetary award.  |
| San Diego Chapter of the Human Factors And Ergonomics Society | Professional Society | Our criteria include: 1) Originality and scholarship in addressing basic issues or applied problems related to human performance within technological work environments; 2) Excellent presentation of the problem statement, methods used, and ideas for application/follow-up studies | Each winner receives a gift card and a certificate. Each honorable mention receives a certificate. All winners and honorable mentions will be provided an opportunity to present projects to the chapter and participate in a "Shadow a Human Factors Researcher / Engineer Day."  |
| San Diego County Dental Society                               | Professional Society | We choose projects which relate to dentistry and/or oral health  | We give two monetary awards each year. A significant additional benefit to the students is an invitation for them and their families to attend one of our professional meetings in May, held jointly with the San Diego Region Navy Dental Departments, where they will be honored and allowed to present their projects with other dentists in a table clinic setting. Their families are also invited. Dinner and a dental speaker conclude the evening. |
| San Diego County Optometric Society                           | Professional Society | We are interested in projects about vision, color, reading, and other optometric related experiments   | A monetary award and a certificate are given to the winner, who is also invited to present at a Sunday seminar to the society members.   |



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| San Diego County Pharmacists Association | Professional Society | The San Diego County Pharmacists Association selects one (1) student from each of the Junior and Senior divisions for its professional society awards. The project should demonstrate applicability to pharmacy practice and may involve novel medication therapy, innovations in medication delivery and/or management of a particular disease. The project should also demonstrate sound scientific methods and project development. The student will be judged on project content, presentation skills, and degree of direct student contributions to the project. | The winners are invited to give a presentation at one of the SDCPhA board meetings during which a certificate and monetary award are presented to each student.   |
| San Diego County Water Authority         | Professional Society | We look for water-related projects in the areas of conservation, irrigation, plants, mulches, water fixtures, water quality, gardening, reclaimed water, soil and erosion, properties of water, water treatment, and similar topics.  | We will be providing monetary awards for both Jr. and Sr. Divisions, plus plaques, which will be presented at our Board meeting.  |
| San Diego for Science                    | Professional Society | Excellent communication of a complex scientific/engineering research project in a manner that is enthusiastic, exciting, engaging, and relatable to a general audience.   | Winner(s) will be invited to present their project at the 2nd annual March For Science - San Diego, one of more than hundreds of Marches For Science being planned worldwide, on April 14. Winners and runners up will receive a March For Science - SD clothing or memorabilia item of their choice from our online store. |

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| San Diego Psychological Association            | Professional Society | In general, we look for projects reflecting good scientific method, originality, student ownership, and understanding of conceptual underpinnings and application possibilities. We ask students to tell us about their projects and not to present any rehearsed statements.                                    | Awards include savings bonds, for the top winners. All winners after invited to an annual Awards Assembly, where they discuss their projects and receive certificates.                                     |
| San Diego Science Educators Association        | Professional Society | We choose students in the Junior and/or Senior Division who have demonstrated the best use of simple materials in their projects-- maximum of two students overall. No kits or electronics are allowed. All models must work.  | Our winners receive a monetary award, an inscribed plaque, and a free dinner at our awards ceremony in June, which includes their parents and family. The winners' teachers also receive a monetary award. |
| San Diego Society of Health-System Pharmacists | Professional Society | We select projects that are more medication/drug-based since we are a pharmacy organization. I then have the judges judge only those projects - they choose a winning project that highlights medication/drug-related concerns/medical-based issues.   | We select two winners, one from junior division and one from senior division, who each receive a monetary award.   |
| San Diego Zoo Global                           | Professional Society | Winning projects must have a strong connection to San Diego Zoo Global core mission statement. The project must be focused on at least one of the following topics: animals, invertebrates, plants, conservation of habitat/wildlife, or Institute research disciplines with related work woven into the project | We will be awarding a junior and senior division winner. We will present each with a monetary award, a Zoo membership and a framed certificate. These will be presented at a special Zoo awards program.   |

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| Scripps Institute of Oceanography Climate Science Award                   | Professional Society | Climate change is a tremendous threat to the future of the planet. Your generation will have to make many important decisions related to climate change adaptation (adapting to the impacts of climate change) and mitigation (reducing our greenhouse gas emissions). The path to a sustainable future will require significant technological advances. The purpose of this award is to encourage innovation that will help with regards to either climate change adaptation or mitigation. Examples could include technologies related to energy and energy systems as well as carbon capture or sequestration. | A monetary Prize will be awarded.  |
| Sigma Xi: The Scientific Research Honor Society (San Diego Chapter)       | Professional Society | NOT PROVIDED  | We give monetary award to 2 to 3 students from each division based on several criteria   |
| Society for In Vitro Biology  | ISEF Affiliate       | grade 11 only; tissue culture or in vitro   | certificate  |
| Society of American Military Engineers                                    | Professional Society | We are usually interested in the originality and applicability of the project.  | We select the winners and invite them to showcase their project to our members at our May Luncheon meeting where they also receive a monetary award. The students and their guests attend free of charge. This year it will be on 5/10/17. |
| Society of Fire Protection Engineers, San Diego and Inland Empire Chapter | Professional Society | We look for projects in the fire protection /fire safety field. They should be unique and/or useful to the field of fire protection engineering. Quality of presentation is important   | Two students receive monetary awards, and all winners are given certificates of award.   |

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| Society of Toxicology:<br>Southern California<br>Regional Chapter | Professional Society | We look for excellent projects which address toxicology  | Four to six monetary awards  |
| Society of Women<br>Engineers - San Diego<br>County Section       | Professional Society | The award goes to a female entrant whose exhibit is determined outstanding in the area of applied sciences and engineering and has the potential to encourage girls to pursue an engineering career.   | In addition to a certificate and a ribbon, our recipient will receive a small monetary award and an invitation to our banquet.   |
| Stockholm Water Prize   | ISEF Affililate      |  | Entry Form for Competition   |
| The City of San Diego's<br>Environmental Services<br>Department   | Professional Society | We will be focusing on projects that promote waste reduction or projects that are a benefit to the environment including recycling, composting, and energy efficiency.   | Trophies will be presented to the winners at the Very Important Plant Reception and Awards; location to be determined. See <a href="http://www.earthdayweb.org/VIP.html">http://www.earthdayweb.org/VIP.html</a> |
| The Ron Orta Excellence in<br>Biomedical Research Award           | Professional Society | The Ron Orta Excellence in Biomedical Research Award honors the memory of Ron Orta and his dedication to biomedical research. This award, like Ron, seeks to raise public awareness in California and Nevada of the responsible conduct of research and the ethical care of laboratory animals, and recognizes projects that show such care by the complete and appropriate review and approval by an Institutional Animal Care and Use Committee (IACUC) in the development and implementation of their projects. | A monetary prize is provided   |

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| Torrey Pines Docent Society       | Professional Society | A quality science or engineering project (especially new research or development) enhancing understanding or ability regarding nature, conservation, preservation, or interpretation in the region of Torrey Pines State Natural Reserve. Awardees demonstrate excellent written and verbal communication skills. Typically, 4-6 winners | All awardees will receive a Certificate of Achievement and a monetary award. In addition, all awardees are offered an opportunity to have mentored publishing in our Newsletter and provide a presentation at our General Meeting before potentially 100 Docents and Trainees of TPDS. |
| United States Air Force           | ISEF Affililate      | USAF packages sent by National; will be late this year   | Unknown  |
| US Metric Association             | ISEF Affililate      | Best use of metric units   | certificate  |
| UTC Aerospace Systems / Fred Rohr | Professional Society | Looking for an outstanding science or engineering related project that demonstrated mastery of subject material, contained a novel idea, clearly presented and answered panel questions, and have alignment to our business.   | The 63rd Fred H. Rohr Award from UTC Aerospace Systems is a monetary award honoring a student who's project has outstanding contributions in science or engineering, is innovative, and has potential impact in the aerospace field.   |

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| <p>WateReuse Association - San Diego Regional Chapter</p> | <p>Professional Society</p> | <p>Award criteria is based on topic, projects addressing recycled water, desalination, or supporting technology thereof and quality. Target prizes are 3 prizes in each age division - first, second and third. This may be revised depending on the availability of projects applicable to our award criteria. The award info (total prize amount &amp; number from each division) may be slightly adjusted based on the number of applicable projects. For example, last year we only awarded 3 projects from the Junior division because the Senior division had too few related projects.</p> | <p>Six award winners are selected, three from each division; each receives a monetary award.</p> |
| <p>Yale Science and Engineering Association</p>           | <p>ISEF Affiliate</p>       | <p>11th grade; Computer Science, Engineering, Physics, Chemistry; online form by 30 May</p>   | <p>preliminary certificate; rest follows in August</p>   |