



Intel International Science and Engineering Fair Celebrates Next-Generation Innovators

The Intel International Science and Engineering Fair, a program of Society for Science & the Public, is the world’s largest international pre-college science competition. Through a global network of local, regional and national science fairs, millions of students are encouraged to explore their passion for developing innovations that improve the way we work and live. Each May, a group of these students is selected as finalists and offered the opportunity to compete for approximately US\$5 million in awards and scholarships.

Guided by the belief that advances in science and engineering are key to solving global challenges, Society for Science & the Public has organized and produced the competition since it was founded in 1950 as the National Science Fair.

Intel International Science and Engineering Fair 2019

From May 12 to May 17, 1,842 young scientists, engineers, entrepreneurs and makers will convene in Phoenix for the final competition – the largest number of students to compete at ISEF. These finalists were selected from 423 affiliate fairs in 80 countries, regions and territories.

All finalists are selected by an affiliated, local competition and receive an all-expenses-paid trip to the Intel International Science and Engineering Fair. At the competition, finalists are judged by hundreds of science, engineering and industry professionals who have a Ph.D. or equivalent (six years of related professional experience) or are senior graduate students with doctoral-level research in one of the 22 scientific disciplines below.

Finalists’ projects tackle topics ranging from virtual reality to sustainable energy to machine learning. Projects represent a wide range of scientific disciplines and are judged in the following 22 categories:

Animal Sciences	Chemistry	Engineering Mechanics	Plant Sciences
Behavioral and Social Sciences	Computational Biology and Bioinformatics	Environmental Engineering	Robotics and Intelligent Machines
Biochemistry	Earth and Environmental Sciences	Materials Science	Systems Software
Biomedical and Health Sciences	Embedded Systems	Mathematics	Translational Medical Science
Biomedical Engineering	Energy: Chemical	Microbiology	
Cellular and Molecular Biology	Energy: Physical	Physics and Astronomy	

Intel International Science and Engineering Fair 2019 Key Statistics

- Number of finalists (ALL): **1,842**

- Number of finalists from the U.S. and U.S. territories: **1,117**
- Number of finalists outside of U.S.: **725**
- Number of countries, regions and territories: **80**
- Non-U.S. country with the most finalists: **South Korea, 48 finalists**
- Number of finalists by gender (ALL):
 - **2019:** 49.5% female (911 finalists)
50.2% male (925 finalists)
 - **2018:** 48% female (869 finalists)
52% male (923 finalists)
 - **2017:** 47% female (841 finalists)
53% male (936 finalists)
 - **2016:** 48% female (842 finalists)
52% male (897 finalists)
 - **2015:** 46% female (777 finalists)
54% male (921 finalists)

Intel International Science and Engineering Fair 2019 Awards

The top research project in the competition will receive the Gordon E. Moore Award: a US\$75,000 grand prize from the Intel Foundation, given in honor of the Intel co-founder and scientist. Two additional research projects will receive Intel Foundation Young Scientist Awards of US\$50,000.

The Intel Foundation gives approximately 300 additional awards, including:

- **Best of Category**
A top winner in each of the 22 categories will receive a US\$5,000 award from the Intel Foundation. The winners' schools and the affiliate fairs they represent will also receive US\$1,000 grants each. Best of Category winners become eligible for the Gordon E. Moore and Intel Foundation Young Scientist Awards.
- **Grand Awards**
The Intel Foundation will provide Grand Awards for first, second, third, and fourth places in each category. The awards are US\$3,000, US\$1,500, US\$1,000, and US\$500, respectively.
- **Dudley R. Herschbach SIYSS Award**
Three finalists will receive an all-expense-paid trip to the Stockholm International Youth Science Seminar, which includes attendance at the Nobel Prize ceremonies in Stockholm, Sweden. This award is named after Dudley Herschbach, who won the 1986 Nobel Prize in chemistry.
- **European Union Contest for Young Scientists**
Recipients of this award will win an all-expense-paid trip to the European Union Contest for Young Scientists, which is located in a different city each year.

In addition, dozens of corporate, academic, government, and scientific organizations give awards, including:

- **Arizona Public Service Company**
Arizona Public Service Company will award three cash prizes for projects that provide scalable, real-time solutions to current energy challenges.

- **Arizona State University**
Arizona State University will offer a comprehensive scholarship combining a monetary award and an environment focusing on knowledge, learning and research.
- **Drexel University**
Drexel University will award eight full scholarships to those students whose projects match Drexel's curriculum.
- **GoDaddy**
GoDaddy will offer the following awards: the Web Innovator Award, the Mobile Application Award, the Open Source Award, the Data Award and the Forward Thinker Award.
- **Oracle Academy**
Oracle Academy is presenting nine Special Awards for outstanding projects in the system software category.
- **University of Arizona**
University of Arizona will award scholarships to outstanding awardees who have demonstrated robust research for the greater good of society.
- **United States Agency for International Development (USAID)**
USAID will present first, second, and third place awards in four categories, recognizing projects with relevance to international development.

Intel's Commitment to Education

Intel believes that young people are the key to future innovation. In addition to collaborating with Society for Science & the Public on the Intel International Science and Engineering Fair for more than 20 years, a commitment that concludes in 2019, Intel has invested millions in education initiatives over the past decades to ensure more students have a solid foundation in science, technology, engineering and math, which are crucial for success. We plan to continue empowering the world's future innovators by investing heavily in STEM education initiatives worldwide. To learn more, visit <https://www.intel.com/content/www/us/en/corporate-responsibility/corporate-responsibility.html>, and join the conversation on [Facebook](#) and [Twitter](#).

Society for Science & The Public's Mission to Inform, Educate and Inspire

Society for Science & the Public ("Society") is a champion for science, dedicated to expanding scientific literacy, effective STEM education and scientific research. The Society is a nonprofit 501(c)(3) membership organization focused on promoting the understanding and appreciation of science and the vital role it plays in human advancement: to inform, educate, and inspire. For decades, the Society has offered many of the most revered science competitions in the world: the Regeneron Science Talent Search (Regeneron STS), the Intel International Science and Engineering Fair (Intel ISEF), and Broadcom MASTERS (Math, Applied Science, Technology and Engineering for Rising Stars). The Society is also dedicated to providing concise, accurate, and inspirational content through our journalism in Science News and Science News for Students.

To learn more about Society for Science & the Public, visit <https://student.societyforscience.org/intel-isef>, and follow them on [Facebook](#), [Twitter](#), [Instagram](#) and Snapchat (Society4Science).

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