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$4 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 took on title sponsorship of the International Science and Engineering Fair in 1997 as part of an effort to bring greater attention to science, technology, engineering and math achievement, encourage more youth to embrace these fields, and highlight the impact these subjects have on the future of innovation.

Intel International Science and Engineering Fair 2017

From May 14-19, more than 1,700 young scientists, engineers, entrepreneurs and makers will convene in Los Angeles for the final competition. These finalists were selected from 425 affiliate fairs in 78 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 2017 Key Statistics

- Number of finalists (ALL): **1,778**
- Number of finalists from the U.S. and U.S. territories: **1,102**
- Number of finalists outside of U.S.: **676**
- Number of countries, regions and territories: **78**
- Non-U.S. country with the most finalists: **South Korea, 39 finalists**
- Number of finalists by gender (ALL):
  - **2017:** 47% female (841 finalists)
    53% male (937 finalists)
  - **2016**: 48% female (842 finalists)
    52% male (897 finalists)
  - **2015:** 46% female (777 finalists)
    54% male (921 finalists)
  - **2014:** 46% female (814 finalists)
    54% male (973 finalists)

Intel International Science and Engineering Fair 2017 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.

Approximately 600 additional awards, funded by the Intel Foundation with support from dozens of corporate, academic, government and science-focused sponsors, will be distributed. Those awards include:

- **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.
- **Arconic Foundation**
  Arconic Foundation will select six winners in two categories: sustainable urban design and sustainable design in transportation. The first-place students will receive US$2,500, second place will receive US$1,500 and third place will receive US$1,000, totaling US$10,000.
- **American Chemical Society**
  The American Chemical Society will offer the first- through fourth-place winners awards to support high school students in their exploration of the chemical sciences through research experiences.
- **Drexel University**
  Drexel University will award eight full scholarships to those students whose projects match Drexel's curriculum.
- **Dudley R. Herschbach SIYSS Award**
  Three finalists will receive an all-expenses-paid trip to the Stockholm International Youth Science Seminar, which includes attendance at the Nobel Prize ceremonies in Stockholm, Sweden. Dudley Herschbach won the 1986 Nobel Prize in chemistry.
- **European Union Contest for Young Scientists**

Recipients will win an all-expenses-paid trip to the European Union Contest for Young Scientists, which is located in a different city each year.

- **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.
- **NSA Research Directorate**
  The NSA Research Directorate will offer a first-place award of US$3,000 and a second-place award of US$1,000 to encourage more new scientists to think about cybersecurity and its critical aspects across multiple disciplines.
- **Society of Experimental Test Pilots**
  The Society of Experimental Test Pilots will give first- through third-place awards to recognize outstanding achievement in the engineering sciences and to inspire youth to pursue careers in aerospace and the flight test profession.
- **U.S. Environmental Protection Agency**
  The EPA will recognize one student, whose work demonstrates a commitment to environmental sustainability and stewardship, with the EPA Patrick H. Hurd Sustainability Award.

Intel's Commitment to Education

Intel is redefining what it means to be an innovator by expanding access to technology skills and experiences and connecting more people to opportunity. In addition to supporting the Intel International Science and Engineering Fair for nearly 20 years, a commitment that continues through 2019, Intel is broadening access to technology skills and experiences for underserved youth worldwide through the Intel® Innovation Generation initiative, helping ensure the next generation of innovators is diverse, inclusive and empowered. Intel believes technology is a force for positive social impact and has the power to be a great equalizer, but only if everyone has access to it. To learn more, visit http://www.intel.com/content/www/us/en/corporate-responsibility/innovate.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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