Science Fair Project Opportunities—Science Competitions

Young Scientist Challenge

https://youngscientistlab.com/annual-challenge/about-the-challenge

This national competition is open to 5th-8th graders. Students submit a 1-2 minute video addressing a problem and solution related to "the way we move, the way we keep ourselves healthy, or the way we make a difference". DYSC interprets these areas quite broadly; see the website for "thought starters" that give a sense of the breadth of possible topics. If your science fair project relates to one of these areas, you can use it for DYSC. Judges will select "merit winners" from each state who receive prize packages. 10 finalists receive an all- expense-paid trip to the final competition, along with a $1,000 cash award and a summer experience at 3M. The 1st place winner receives $25,000 and a trip from Discovery Student Adventures.

Society for Science Middle School Competition (Sponsored by ThermoFisher)

(Used to be Broadcom MASTERS) Math, Applied Science, Technology, & Engineering for Rising Stars

https://www.societyforscience.org/jic/

A national competition administered by the Society for Science (the same people who run Regeneron ISEF and Regeneron STS). Students in grades 6-8 are eligible to participate. Students compete at SSP-affiliated science fairs (such as Ritchey SEF), and the top 10% of students are nominated to the Middle School Competition. Nominees then fill out an online application "explaining their science project and demonstrating their use of STEM principles - science, technology, engineering and math - in the development and presentation of their project…. The online application requires students to answer essay questions on their science fair project, provide a few examples of science and engineering in their everyday life, and complete a brief career exploration section." 300 semifinalists and 30 finalists are selected from the pool of applicants. Finalists receive an all-expense paid trip to Washington, D.C., where they compete for awards, including a top prize of $25,000.

How do I enter? Must be nominated by an SSP-affiliated fair, i.e. at the Ritchey Fair in March! Junior fair students in the Ritchey SEF service area who place 1st or 2nd in their category are nominated by Ritchey SEF to enter this competition.

About AEOP & eCYBERMISSION

https://www.ecybermission.com/

eCYBERMISSION is a web-based Science, Technology, Engineering & Mathematics competition for 6th, 7th, 8th and 9th grade teams. Teams propose a solution to a real problem in your community and compete for Awards.

eCYBERMISSION is one of several science, technology, engineering and mathematics (STEM) initiatives offered by the Army Educational Outreach Program (AEOP). The U.S. Army is committed to answering the nation's need for increased national STEM literacy and expanding STEM education opportunities across the country to open doors to new career paths for America's students that lead to a brighter tomorrow.

ExploraVision

https://www.exploravision.org/

The ExploraVision competition for K-12 students engages the next generation in real world problem solving with a strong emphasis on STEM. ExploraVision challenges students envision and communicate new technology 20 years in the future through collaborative brainstorming and research of current science and technology.

ExploraVision is a science competition that goes beyond the typical student science competition and into what it takes to bring ideas to reality. A teacher will sponsor and lead his/her students as they work in groups of 2 – 4 to simulate real research and development. A teacher will guide his or her students as they pick a current technology, research it, envision what it might look like in 20 years, and describe the development steps, pros & cons, and obstacles. Past winners have envisioned technologies ranging from a hand-held food allergen detector to a new device to help people who have lost limbs regain movement in real time.

The Conrad Challenge

https://www.conradchallenge.org

We give students the chance to become entrepreneurs and apply innovation, science and technology to solve problems with global impact. Guided by teachers and industry experts, the competition becomes a master class in collaboration, creativity, critical thinking and communication. The result: students develop skills needed to thrive in the 21st century workforce and bring to life commercially-viable innovations that have the potential to change life for the better on the individual, national and global levels.

Categories: Aerospace & Aviation, Cyber-Technology & Security, Energy & Environment, Health & Nutrition, Smoke-Free World, Transforming Education Through Technology

Regeneron Science Talent Search

https://student.societyforscience.org/regeneron-sts

The "Junior Nobel Prize", the Regeneron STS is a national competition for high school seniors administered by Society for Science and the Public (the same people who run Regeneron ISEF and the Middle School Competition). Only high school seniors are eligible to participate, and only individual projects are allowed. Students apply directly to the Regeneron STS—they are not nominated by a regional science fair. The Regeneron STS has no time limit on the duration of research. This is different from the Regeneron ISEF, and it means that you can report *all* of a multi-year project. The application includes standardized test scores, letters of recommendation, a report from your high school principal or counselor, transcript, essay questions, and a research paper about your project, patterned after peer-reviewed journal articles. Everything except the transcript is submitted online; the transcript must be mailed to SSP. Additional forms may be required if IRB approval is needed. Judges select 300 semifinalists and 40 finalists from the pool of applicants

Davidson Fellows Scholarships

https://www.davidsongifted.org/gifted-programs/fellows-scholarship/

Davidson Fellows Scholarships are awarded to individual students age 18 or under in seven categories: mathematics, science, literature, music, technology, philosophy, and outside the box. Students apply directly to the Davidson Fellows Scholarship program. The application varies by category; the science category requires a research report, visual model, and video presentation. Awards include $50,000, $25,000 and $10,000 scholarships. Projects involving human subjects or live animals (vertebrate or invertebrate) are not allowed. Students present college or graduate-level work—the kind of work expected for Regeneron ISEF, Regeneron STS, and the Siemens Competition. In fact, many Davidson Fellows have won awards at these other prestigious competitions.

Junior Science and Humanities Symposium

https://www.jshs.org

This national competition, sponsored by the US Armed Forces, is open to 9-12 graders. The nation is divided into regions, and students compete at the regional level, with regional winners advancing to the national level. Utah is in the Intermountain Region (https://www.jshs.org/region/intermountain/). JSHS invites high school students to report on the results of their original research investigations in STEM and compete for scholarships and recognition at university-held regional symposia. All students in grades 9-12 enrolled in public, private, or home schools are eligible to participate in their local Regional Symposium.

BioGENEius Challenge

https://biotechinstitute.org

This is an international competition for 9-12 graders with biotechnology-related projects. For the purposes of the competition, "Biotechnology is the use of the knowledge of biological systems to produce goods and services." Utah does not have a local BioGENEius Challenge, so students should apply to the At Large BioGENEius Challenge. 15 students from the At Large BioGENEius Competition will be selected for the national BioGENEius Challenge. National winners can advance to the International BioGENEius Competition. 1st place = $7,500, 2nd place = $5,000, 3rd place = $2,500, 4th = $1,000. Remaining finalists receive $500 Honorable Mention.

Dr. Bessie F. Lawrence International Summer Science Institute

https://davidson.weizmann.ac.il/en/programs/issi

This is a research experience for high school graduates and brings together talented students from across the globe. Students work with researchers at the Weizmann Institute of Science in Israel to complete a research project. The fourth week is spent exploring the Dead Sea and surrounding environs. The program includes trips to other parts of Israel, such as Jerusalem. American students receive a full scholarship.

EngineerGirl Essay Contest

https://www.engineergirl.org/

This is a contest for ages 8-15 to solve problems dealing with engineering and its impact on our world. Cash prizes are offered (First-place $500, second-place $250, third-place $100).

Imagine Cup

https://imaginecup.microsoft.com/en-us

Imagine Cup is an annual competition sponsored and hosted by Microsoft Corp. which brings together student developers worldwide to help resolve some of the world's toughest challenges. It is considered as "Olympics of Technology" by computer science and engineering and is considered one of the top related to technology and software design. All Imagine Cup competitors create projects that address the Imagine Cup theme: "Imagine a world where technology helps solve the toughest problems".

The Software Design competition challenges participants to use technology to solve what they consider to be the toughest problems facing the world today. Using Microsoft tools and technology, competitors create software applications. Participants develop, test, and build their ideas into applications that can change the world.

And more competitions may be found here:

https://www.competitionsciences.org/competitions/