

## READING THE CODES IN THE FINALIST LISTING

### Connecticut Science Fair Categories

The fair has two major divisions, Life Sciences and Physical Sciences. Each division is further divided by grade with additional categories for middle school and high school team projects. The project number shown in fair material identifies the Regular Fair Category that the project is assigned.

<b>Grades 7 &amp; 8 Team</b>	<b>LT</b>	<b>Life Sciences- 10XX</b>	<b>PT</b>	<b>Physical Sciences- 40XX</b>
<b>Grade 7</b>	<b>L7</b>	<b>Life Sciences- 20XX</b>	<b>P7</b>	<b>Physical Sciences- 50XX</b>
<b>Grade 8</b>	<b>L8</b>	<b>Life Sciences- 25XX</b>	<b>P8</b>	<b>Physical Sciences- 55XX</b>
<b>Grades 9-12</b>	<b>LS</b>	<b>Life Sciences- 30XX</b>	<b>PS</b>	<b>Physical Sciences- 60XX</b>
<b>Grades 9-12 Team</b>	<b>LST</b>	<b>Life Sciences- 35XX</b>	<b>PST</b>	<b>Physical Sciences- 65XX</b>

**Life science projects** include behavioral and social sciences, biochemistry, botany, environmental sciences, medicine and health, microbiology and zoology. **Physical science projects** encompass chemistry, computer science, earth and space sciences, engineering, mathematics and physics. **Grades 7 & 8 team projects are limited to 2 students. The Grades 9-12 Team category is limited to a maximum of three students. Grades 9-12 individual project category winners received all expense trips to the Intel International Science and Engineering Fair, in May.**

**Typical Result Listing**

Honors: 1, Finalist Regular Fair;  
2, 40-75percentile of fair; 3, 0-40  
percentile of fair

Fair Category

Project Number

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6509    PST    1    Using Simple Artificial Intelligence to Accomplish Complex Tasks

Storrs / E.O. Smith High School

CT Center for Science & Exploration Physical Science Award	2nd Place - Physical Science Senior Team - \$300 (split) & Trophy
ATOMIC (Associated Teachers of Mathematics in CT)	High School - Medallion
Barnes Aerospace Applied Technology Award	High School - Medallion
CSF Computer Science Award with Canberra Industries	High School - Medallion
IEEE, Connecticut Section	\$250 Honors Award gift certificate -Senior

## **Major Categories**

### **New Major Category**

#### **Alexion Biotechnology Awards**

For projects where the biological and physical sciences are applied to developing such things as pest resistant crops, new bacterial strains, or novel pharmaceuticals. Top winning project, individual or team, receives all-expense trip to compete at the International Science & Engineering Fair in Los Angeles in May.

### **Physical and Life Science Categories**

#### **Dominion Physical Sciences Awards**

For projects in the physical sciences. The two top winning individual projects receive all-expense trip to compete at the Intel International Science & Engineering Fair in Los Angeles in May.

#### **Pfizer Life Sciences Awards**

For projects in the physical sciences. The two top winning individual projects receive all-expense trip to compete at the Intel International Science & Engineering Fair in Los Angeles in May.

*Projects at the fair are also considered for awards in special categories. Projects are selected for these categories by special judging panels. Consideration for these awards is separate from the regular fair judging.*

### **Special Categories**

#### **Applied Technology- With Support from Barnes Aerospace**

For projects applying technology to demonstrate a practical solution to a stated problem or by creating a functionally interesting use of technology.

#### **Mathematics- Conducted by ATOMIC with Support from People's United Bank**

For projects applying mathematics or theoretical mathematics. Category is sponsored by People's United Bank and conducted by the ATOMIC (Associated Teachers of Mathematics In Connecticut.)

#### **Connecticut Science Fair Computer Science**

For projects that deal with computer architecture or software development directed towards better computers and software. Category is sponsored by the CT Science Fair.

#### **Audubon Connecticut / Arch Chemicals Environmental Awards**

For projects in environmental science and observational behavioral studies of animals in the environment. Sponsored by Audubon Connecticut <http://www.audubon.org/> with support from Arch Chemicals Inc.

### **Connecticut Clean Energy Fund- Alternative/Renewable Energy Awards**

<http://www.ctcleanenergy.com>

CCEF provides cash awards, plaques and recognition awards for projects that best promote an educated energy conscious society. Projects should explore and present resources for a sustainable energy future.

### **eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Middle School Awards**

<http://www.eesmarts.com/>

eesmarts/CT Energy Efficiency Fund sponsors this category for energy, engineering, and environmental projects addressing future sustainability of our planet.

### **eesmarts/CT Energy Efficiency Fund Future Sustainability High School Awards**

eesmarts/CT Energy Efficiency Fund sponsors the category for energy, engineering, and environmental projects addressing future sustainability of our planet. The first place high school winner will receive an all-expense paid trip by the International Sustainable World to I-SWEEEP in Houston, Texas. This international competition for youth focuses on sustainability for the planet.

*Winners for the following Awards are selected from the fair finalists.*

### **United Technologies Corporation**

<http://www.utc.com/>

United Technologies Corporation selects up to 8 projects each to receive \$500 of UTC common stock and a plaque. Criteria include innovation, topics of special interest to UTC and overall excellence in science and engineering.

### **Quinnipiac University Scholarships**

<http://www.quinnipiac.edu/>

Quinnipiac University selects one middle school and one high school student to receive \$20,000 scholarships.

### **Connecticut Academy of Science and Engineering (CASE) J. H. Gerber Awards**

<http://www.ctcase.org/> & <http://www.ccat.us/>

Presented by the Academy and the Connecticut Center for Advanced Technology to the two top senior high school individual student winners- \$1,000 cash, Solid Silver Medal of Excellence and Invitation to attend CASE's Annual Meeting.

### **Connecticut Science Teachers Association (CSTA) Marty Tafel Awards**

[www.csta-us.org/](http://www.csta-us.org/)

Presented by the CSTA to the top middle school students of the individual 8<sup>th</sup> grade category in memorial to Marty Tafel, a beloved elementary school science teacher.

### **I-SWEEEP International Sustainable World International Competition**

[www.isweeep.org](http://www.isweeep.org)

The top winners of Future Sustainability category will receive an all-expense trip for their student and teacher to Houston, Texas in May to compete in I-SWEEEP.

### **GENIUS Olympiad Awards**

For high school projects in Energy, Ecology, or Biodiversity. Four winning individual projects receive all-expense trips to compete at the GENIUS Olympiad, Oswego, NY.