



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 11 - 16, 2019

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

### Final Judging Results

## United Technologies Corporation Awards

[SchTown] [School] [Teacher]  
[Proj#] [FCat] [Project Title]

**Award Legend**  
Trophy Winners = 1, 2, ...  
Medalists = m  
Winners = w

### Middle School

5025 P7 Recovering Energy From an A/C Unit Condenser Exhaust Fan

**Award** Student(s) Elle Okoney Grade 7 Town Bozrah

- \* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- \* Applied Technology Awards --- Middle School Finalist - Medallion
- \* Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- \* Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy
- \* Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- \* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

### High School

6005 PS Real-Time Sinkhole detection using Civil Engineering techniques, the Internet of Things (IoT), and Artificial Intelligence

**Award** Student(s) Sophia Wang Grade 11 Town Woodbridge

- \* Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

6047 PS A Green Nanotechnological Approach for Energy Efficiency and Conservation: Tungsten-doped Vanadium Dioxide Thermo-chromic Smart Windows

**Award** Student(s) Cynthia Chen Grade 11 Town Riverside

- \* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- \* Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg



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6048 PS Intuitive Control Algorithm Development of 4WIS/4WID Using A SpaceMouse  
**Award** Student(s) Taewook Kim Grade 11 Town Kent

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* IEEE, Connecticut Section --- \$250 Honors Award -Senior
- \* Robotics And Beyond --- MS- For Excellence in Engineering Design- \$200 for Robotics And Beyond STEM Design Academy in July
- \* Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

6058 PS The Effect of Design Parameters and Operating Conditions on Optimal Energy Conversion and Force Generation in a Magnetohydrodynamic Drive  
**Award** Student(s) Vishakh Talanki Grade 12 Town South Windsor

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- \* Applied Technology Awards --- Senior High Finalist - Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR

6083 PS Computational Fluid Dynamics Study of Turbulence  
**Award** Student(s) Bryan Ingwersen Grade 12 Town Sandy Hook

- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

6090 PS Al(III)-Mediated Ionic Conduction in New Abundant Metakaolin Solid Electrolyte for Safe, Efficient Power Grid Na-Ion Batteries  
**Award** Student(s) Alexander Kosyakov Grade 12 Town Riverside

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- \* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report



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6530	PST	Optimizing Archimedian screw geometry to increase the energy conversion efficiency of a micro hydropower plant.
<b>Award</b>	<b>Student(s)</b>	<b>Grade 11 Town</b> South Windsor <b>Grade 11 Town</b> Glastonbury
	<b>Devesh Kakkar</b> <b>Johnathan Bell</b>	

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
- \* Collins Aerospace Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Connecticut Association of Physics Teachers --- \$100 Senior project
- \* Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical