



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 4 - 16, 2024

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

### Final Judging Results

#### Award Legend

Plaque Winners = 1, 2, ...  
 Medalists = m  
 Winners = w

## Future Sustainability Awards

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

### Middle School

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

4011 PT Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface

**Award** 1 **Student(s)** Palaniappan Manikandan **Grade 8** **Town** Ellington  
 Duke Clotley **Grade 8** **Town** Hartford

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy
- \* Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- \* Jon Chapis Memorial Award --- Jon Chapis Spirit of Innovation Award - MS \$100
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

4004 PT Integrating Pelton Turbines Into Industrial Pipes to Harvest Energy

**Award** 2 **Student(s)** Aaditya Sadhvani **Grade 8** **Town** Ellington  
 Roshan Kumar **Grade 8** **Town** Ellington

- \* Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

**Greenwich** Central Middle School Andrew Bramante

2507 L8 Modeling of Fairfield County Fresh-water and Estuary Waterways, to Highlight Contamination of their Ecosystems/Environments

**Award** 3 **Student(s)** Briar Lissauer **Grade 8** **Town** Greenwich

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* Southeastern New England Marine Educators (SEMEME) --- \$100 award and membership for student and teacher in SEMEME - 1st Place Junior



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### High School

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

6079 PS Using Biomimicry to Harvest Energy from the Sinusoidal Motion of an Eel

**Award** 1 **Student(s)** Vikram Haran **Grade** 11 **Town** Ellington

- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- \* EnergizeCT Future Sustainability Awards --- 1st Place High School - Plaque & \$700 Stipend to Compete at GENIUS Olympiad
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

3054 LS Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions

**Award** 2 **Student(s)** Namyanzi Edwards **Grade** 11 **Town** New Britain

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- \* EnergizeCT Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- \* IEEE, Connecticut Section --- \$250 Honors Award -Senior
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- \* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250
- \* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - (amount undefined) to a junior

**Norwich** Norwich Technical High School Aleatha Pelloni

3526 LST Cultivating Green Growth: Harnessing Electroculture for Sustainable Gardening Practices

**Award** 3 **Student(s)** Sophia Caballero **Grade** 11 **Town** Norwich  
 Alejandra Cardona **Grade** 11 **Town** New London

- \* EnergizeCT Technical High School Science & Technology Awards --- 2nd Place- Technical High School , \$300, Plaque
- \* EnergizeCT Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6080 PS Using Ozone-Based Oxidation for Pesticide Detoxification in Aquatic Environments

**Award** m **Student(s)** Aiden Deutsch **Grade** 12 **Town** Fairfield

- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion



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 [Proj#] [FCat] [Project Title]

**Greenwich** Brunswick School Dana Montanez  
 3513 LST The Impact of Ocean Acidification on Photosynthetic Rates of Rhodomonas salina and Amphidinium  
 Award m Student(s) Eric Lorenz Grade 11 Town Greenwich  
 Ryan Ahn Grade 11 Town White Plains

\* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion  
 \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

**Greenwich** Brunswick School Dana Montanez  
 6516 PST Water Testing with Ease: Creation of a handheld device for Water Analysis in Recently Flooded Areas.  
 Award m Student(s) William Pallone Grade 10 Town Rye  
 Townsend Bancroft Grade 10 Town Greenwich

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion  
 \* Aquarion Water Company --- 2nd. \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Managemen

**Greenwich** Brunswick School Dana Montanez  
 3501 LST Developing an Organic Microbial Solution for the Plastic Accumulation Problem in Water Sources  
 Award m Student(s) Gabriel Trahanas Grade 11 Town Riverside  
 Oliver Velasco Grade 11 Town Greenwich

\* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque  
 \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

**Hamden** Hamden Hall Country Day School Daniel Cuneo  
 6512 PST Using Quantum-assisted Machine Learning in Maize Yield Prediction through Environmental Patterns.  
 Award m Student(s) Helena Chaine Grade 11 Town Orange  
 Yue Zhuo Grade 12 Town Hamden  
 Linda Chen Grade 10 Town Woodbridge

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion  
 \* Biophysical Society --- Biophysics Award- \$100

**Milford** Platt Technical High School Lori Grace  
 6517 PST Eco-Filter  
 Award m Student(s) Nabila Kandawala Grade 11 Town Bridgeport  
 Nariah Joyner Grade 11 Town West Haven  
 Daniela de Oliveira Grade 11 Town Stratford

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion



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**New Haven** Sound School Charles Mulligan

6511 PST Potential Impact of Watershed Runoff and Tidal Inundation on the Hydrologic Profile of a Coastal March

**Award** m **Student(s)** Cora FitzGerald **Grade** 11 **Town** Guilford  
 Tamzin Maines **Grade** 11 **Town** Old Saybrook

- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

**Norwich** Norwich Technical High School Aleatha Pelloni

3509 LST Renewable fuel using anaerobic digestion

**Award** m **Student(s)** Jasmine Coulombe **Grade** 11 **Town** Chaplin  
 Tessa Lambert **Grade** 11 **Town** Scotland

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place - Life Sciences Senior High Team - Plaque
- \* EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, Plaque & Stipend to Compete at GENIUS Olympiad
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

**Norwich** Norwich Technical High School Suzanne Edwards

6066 PS A Mathematical Analysis of the Variables Impacting the Performance of Wind Turbines as the Energy Converts from Kinetic to Mechanical to Electrical

**Award** m **Student(s)** Leah Kozerefski **Grade** 9 **Town** Gilman

- \* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* U.S. Air Force --- Certificate & USAF Merchandise Package
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**South Windsor** South Windsor High School Danel Eitel

6501 PST The Use of Piezoelectric Technology for a more Efficient and Cost-Effective Approach to Electronics Cooling

**Award** m **Student(s)** Adithya Anand **Grade** 11 **Town** South Windsor  
 Jason Thokchom **Grade** 11 **Town** South Windsor

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- \* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100



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**South Windsor** South Windsor High School Danel Eitel  
 3534 LST Elements of Ecology, the Institution for Innovation and Environmentally Beneficial Invasive Plant Removal Projects  
**Award** m **Student(s)** Srinidhi Karthik **Grade** 10 **Town** South Windsor  
 Nishigandha Bhambure **Grade** 10 **Town** South Windsor

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion  
 \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

**South Windsor** South Windsor High School Danel Eitel  
 6507 PST Optimized Magneto-Inertial Fusion for Practical Use  
**Award** m **Student(s)** Jeremy Shiju **Grade** 11 **Town** South Windsor High School  
 Akshaj Nadimpalli **Grade** 11 **Town** South Windsor  
 Daniel Stoyanov **Grade** 11 **Town** South Windsor

\* Connecticut Science Fair Association Physical Science Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque  
 \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 6524 PST The Effect of Spatial Orientation of Panels in a Three-Dimensional Solar Tower  
**Award** m **Student(s)** Jair Andrew **Grade** 10 **Town** Ellington  
 Sriraam Sundararaman **Grade** 10 **Town** Newington

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion