



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

Alternative/Renewable Energy Awards

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

Middle School

Enfield Chiaravalle Academy Tim Coleman

4022 PT Using Solar to Generate Electricity.

Award 1	Student(s) Keenan Cieslak	Grade 8	Town Monson
	Beau Dugas	Grade 8	Town Enfield
	Michael Bielanski	Grade 8	Town Enfield

- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * IEEE, Connecticut Section --- \$100 Honorable Mention

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

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

Award 3	Student(s) Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clotey	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



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Bridgeport John Winthrop Srilakshmi Kongani

4003 PT The Pinwheel Problem

Award m **Student(s)** Fernando Marin **Grade** 8 **Town** Bridgeport, CT
Pandora Nguyen **Grade** 8 **Town** Bridgeport, CT

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist - Medallion

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4019 PT Using Vortex Hydropower Turbines to Harvest Electrical Energy

Award m **Student(s)** Marcus Davis **Grade** 8 **Town** Broad Brook
Dylan Gao **Grade** 7 **Town** Coventry

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy
- * EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist - Medallion
- * Robotics And Beyond --- Middle School- For excellence in engineering design; \$230 toward Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp, Certificate.

High School

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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

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6002 PS Integrating Piezoelectric Sensors and Photovoltaic Material in an Artificial Energy-Harvesting Model Tree

Award 2 **Student(s)** Laasya Chintapalli **Grade** 11 **Town** Farmington

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100



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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 3 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

Glastonbury Glastonbury High School Diane Pintavalle

6023 PS ROLE OF GRAVITY IN OXYGEN GAS REMOVAL IN POLYMER ELECTROLYTE MEMBRANE WATER ELECTROLYZERS

Award m Student(s) James Hall Grade 11 Town Glastonbury

- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion

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

Award m 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)