



Connecticut Science & Engineering Fair

Quinnipiac University

March 3 - 15, 2025

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

Engineering Awards

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

Middle School

Wilton Middlebrook School Debbie Mallozzi

5507	P8	Bus Notification System with Raspberry Pi
Award	1	Student(s) Vidit Prabhu
		Grade 8 Town Wilton

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 8th Grade Ind. - \$150 & trophy
- * Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$200, Trophy
- * Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$200 & trophy
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. - MS Student in Computing
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

Greenwich Eastern Middle School Andrew Bramante

2506	L8	Fabrication of a Biodegradable, Nutrient-Rich, Orange Peel-Loaded Hydrogel for Thermally-Programmed Release of Water to Maintain Soil Moisture
Award	2	Student(s) Rajsi Choudhary
		Grade 8 Town Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 8th grade- \$200 & trophy
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place MS - \$200, Trophy
- * Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$150 & trophy
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. - MS Student in Engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Bridgeport Geraldine Johnson Kelly Mulligan Mulligan

2523	L8	Seeing the Unseen: Smart Glasses that Brings Sight to the Blind
Award	3	Student(s) Mariam Yousf
		Grade 8 Town Bridgeport

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Pepsico Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy

Enfield Chiaravalle Academy Tim Coleman

4014	PT	Measuring Radiation in Household Appliances and Investigating Shielding Techniques
Award	m	Student(s) Dominic Disibio
		Grade 7 Town Tolland
		Matthew Bielanski Grade 7 Town Enfield
		Cayden Counter Grade 7 Town Springfield

- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion



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Westport Greens Farms Academy Mathieu Freeman
 5523 P8 Investigating Modified Dental X-Rays in Novel Digital Computed Radiography Imaging for Emergency Medical Services
 Award m Student(s) Dylan Karpf Grade 8 Town Westport

- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$200 and Plaque, Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention

Greenwich Greenwich High School Andrew Bramante
 3129 LS Lipid-Based Codelivery of Doxorubicin and siRNA PD-L1, as a Multi-function Chemo-immunotherapy, Selective to PDAC via its MUC1 Overexpression
 Award 1 Student(s) Lula Wang Grade 10 Town Old Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$300 & plaque and trip to ISEF
- * Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$300 & plaque

Greenwich Greenwich High School Andrew Bramante
 3006 LS Targeted Delivery of a Melittin Anti-inflammatory Peptide via a Eudragit-Coated Sporopollenin Exine Capsule, for Effective Treatment of Crohn's Disease
 Award 2 Student(s) Hannah Dcruz Grade 10 Town Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$200 & plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * IEEE William R. Wessman Awards --- \$100 Honorable Mention

Greenwich Greenwich Country Day School Nathan Haag
 6099 PS Optimizing Vertical Take-Off and Landing (VTOL) Aircraft Efficiency Through Propeller Design: Making Air Flight More Accessible, Affordable, and Sustainable
 Award 3 Student(s) Cooper Taylor Grade 11 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place - Physical Sciences Senior High Individual - \$300 & Plaque
- * Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$100 & plaque
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250
- * Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High



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Cheshire Cheshire Academy Breanna Craft

6013 PS A Tracking System.

Award m **Student(s)** Deanna Dixon **Grade** 11 **Town** Cheshire

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

Greenwich Brunswick School Dana Montanez

3528 LST Isolation of Regenerative Proteins in Echinoderms: A comparative analysis of amino acids sequences in Asterina sp. and P. miniata

Award m **Student(s)** Thomas Carney **Grade** 11 **Town** New Canaan
 Pierce Crosby **Grade** 11 **Town** Greenwich

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

6020 PS Facilitated Ethylene Absorption and Freshness Preservation via All-Natural Sodium Chloride and

Award m **Student(s)** Nishant Jain **Grade** 10 **Town** Riverside

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest

Greenwich Greenwich High School Andrew Bramante

6051 PS Development of a Novel Deep Reinforcement Learning Algorithm for Decentralized Real-Time Control of Autonomous Drones with Hardware-Independent Compatibility

Award m **Student(s)** Henry Jin **Grade** 11 **Town** Greenwich

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Kent Kent School ZHAO DU

6100 PS Three-Support Lower-Limb Exoskeleton Device Integrating Multifunctionality and Feedback Mechanisms

Award m **Student(s)** OliviaLu Feng **Grade** 11 **Town** Guangzhou, China

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. - HS Student in Engineering
- * IEEE William R. Wessman Awards --- \$250 Honors Award -Senior
- * Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High



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Stamford King School Victoria Schulman
 6057 PS LungSCOPE: A Multimodal Machine Learning-Based Framework for Overall Survival Prediction in Non-Small Cell Lung Cancer

Award m **Student(s)** Parker Hayashi **Grade** 12 **Town** Riverside

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Wallingford Choate Rosemary Hall Will Morris
 3086 LS RNA Editing Strategies for Correcting USH2A Mutations Associated with Usher Syndrome

Award m **Student(s)** Rachel Fan **Grade** 10 **Town** Wallingford

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Westport Greens Farms Academy Mathieu Freeman
 3050 LS Equus Caballus and Human Heart Rate Variability Synchronization as a Model for Potential Atrial Fibrillation Treatment

Award m **Student(s)** Adeline Thompson **Grade** 12 **Town** Easton

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies

Windsor The Loomis Chaffee School Larry Brackney
 6520 PST Alternative Drivetrain System for Better Efficiency in FIRST Tech Challenge Robots

Award m **Student(s)** Emma Chu **Grade** 11 **Town** Ludlow
 Yejoo Kwon **Grade** 11 **Town** Saratoga

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion