

Connecticut Science & Engineering Fair

Quinnipiac University

March 3 - 15, 2025

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Final Judging Results

Award Legend

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

Urban School Challenge Awards

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

Middle School

Danbury Westside Middle School Academy Nancy Barlow

5528 P8 The Benefit of A Coded Device To Water Plants Automatically

Award 1 **Student(s)** Mackenzie Cooper **Grade 8** **Town** Danbury

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$150 / trophy
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place Middle School - \$200 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 2nd Place Middle School - \$150, 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
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

Danbury Westside Middle School Academy Nancy Barlow

4028 PT The Effect of Different Salts in a Water Softener on Calcium in Drinking Water

Award 2 **Student(s)** Siddanth Ramakrishnan **Grade 8** **Town** Danbury
Patrick Madden **Grade 8** **Town** Danbury
Thomas Smith **Grade 8** **Town** Danbury

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences MS Team- \$100 (split) & trophies
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place Middle School - \$150 and Trophy, Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Danbury Westside Middle School Academy Nancy Barlow

4012 PT How does the Type and Brand of a Battery Affect how Much Voltage it Loses Over Time?

Award 3 **Student(s)** Logan Schneider **Grade 7** **Town** Danbury
Daniel Sposato **Grade 7** **Town** Danbury

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * 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 7th grader- Project Oceanology's Ocean Camp - \$900



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Danbury Westside Middle School Academy Nancy Barlow

4002 PT Increasing The Flight Distance of The Football by Changing its Characteristics

Award 4

Student(s) Brennen Denema

Grade 8 Town Danbury

Sean Kennedy

Grade 8 Town Danbury

Mathias Sanchez

Grade 8 Town Danbury

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 4th Place Middle School - Trophy, Medallion
- * U.S. Air Force --- Certificate & USAF Merchandise Package

New Haven Worthington Hooker School Douglas Jones

1020 LT Does Plant Orientation Affect Growth

Award 5

Student(s) Sieun Yoo

Grade 8 Town New Haven

Clarissa Castilio

Grade 8 Town New Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place Middle School - Trophy, Medallion
- * Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.

Bridgeport Black Rock School Elizabeth Moran

5016 P7 Note Taking App

Award m

Student(s) Halle Clark

Grade 7 Town Bridgeport

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

Bridgeport John Winthrop School Srilakshmi Kongani

4005 PT Don't Quake, Choose the Right Shape!

Award m

Student(s) Kyleen Negron

Grade 8 Town Bridgeport

Leah Brioso

Grade 8 Town Bridgeport

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Performance.
- * Jon Chapis Memorial Award --- Jon Chapis Spirit of Innovation Award - MS \$100
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100



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Danbury Westside Middle School Academy Nancy Barlow

4023 PT How Do Different RC Spoiler Shapes Affect Battery Discharge?

Award m

Student(s) Sean O'Marra

Grade 7 Town Danbury

Alius Santiago-Stra

Grade 7 Town Danbury

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

Danbury Westside Middle School Academy Nancy Barlow

1005 LT Does heating or cooling a fruit/vegetable lower the amount of Brix?

Award m

Student(s) Mohammad Rehan

Grade 7 Town Danbury

Gowtham Vallinayagam

Grade 7 Town Danbury

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest

Danbury Westside Middle School Academy Nancy Barlow

4007 PT The Effects of Different Amounts of Phosphorus on the Growth of Algae Beads

Award m

Student(s) Jazlyn Walia

Grade 8 Town Danbury

Maria Eduarda Silva

Grade 8 Town Danbury

Isis Brito Do Carmo

Grade 8 Town Danbury

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

New Haven Engineering and Science University Magnet School Alyssa Anderson

5512 P8 Investigating the Chemical Properties and Efficiency of Homeade Batteries: A Focus on Voltage, Energy and Chemical Reactions

Award m

Student(s) Anabelle Silverman

Grade 8 Town New Haven

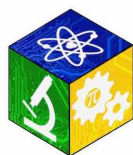
* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

* Society of Women Engineers - Hartford Section --- Scientific Calculator

* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award

* Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering - Middle School

* Demos R Us Awards --- \$200 Cash Award- Clear Execution of Research- 8th Grade



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High School

New Haven Engineering and Science University Magnet School Paula Matei-Grysiak

3003 LS Implementation and Validation of a Novel Machine-Learning-Based Mobile Gyrocardiography System for Arrhythmia Detection

Award 1 **Student(s)** Ethan Joseph **Grade** 10 **Town** West Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place High School - \$300 and Plaque, Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- * The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$100 cash

New Haven Wilbur Cross High School Michael Sang

6070 PS Exploring the Convergence of Juggler Sequences

Award 2 **Student(s)** Julian Theodore **Grade** 11 **Town** New Haven

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Connecticut Science Fair Association Mathematics Awards --- 3rd Place High School - \$100 and Plaque
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place High School - \$200 and Plaque, Medallion
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7500/year)

New Haven Engineering and Science University Magnet School Alyssa Anderson

3008 LS Evaluating LYVE1 Gene Expression in Breast Cancer Using qPCR Analysis and Comparing with Hyperparameter-Tuned Models for LYVE1 Gene Expression in Pancreatic Cancer

Award 3 **Student(s)** Nivrith Ananth Iyer **Grade** 11 **Town** West Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place High School - \$100 and Plaque, Medallion
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Manchester Manchester High School Wendy Turek-Hernandez

3153 LS Flood Wave Reduction Due to Artificial Reefs

Award 4 **Student(s)** Anas Hales **Grade** 12 **Town** Manchester

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 4th Place High School - Plaque, Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF



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Bridgeport Bridgeport Military Academy Arun Kadam

6525 PST Exploring Airfoil Shapes and Generating Lift

Award 5

Student(s) Gerson Andino

Grade 11 **Town** Bridgeport

Bryan Reis

Grade 11 **Town** Bridgeport

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place High School - Plaque, Medallion

Bridgeport Fairchild Wheeler-Biotech Tara Liskov

3125 LS The Effect of Natural Root Stimulators on Plant Height and Root Growth

Award m

Student(s) Ite Daini

Grade 12 **Town** Bridgeport

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

Bridgeport Fairchild Wheeler-Infotech Ricki Chiem

6518 PST The Benefits of Designing Base Isolators for Earthquake Proof Structures

Award m

Student(s) Ayden Gamble

Grade 10 **Town** Bridgeport

Eddie Bermudez

Grade 11 **Town** Bridgeport

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project

Bridgeport Fairchild Wheeler-Infotech Jamie Dittrich

3150 LS Building an AI to Identify Skin Conditions

Award m

Student(s) Mikayla Larbi

Grade 9 **Town** Bridgeport

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

Enfield Academy of Computer Science & Engineering Melissa Gates

6005 PS Does solar wind impact the production of northern lights?

Award m

Student(s) Mickiyah Smith

Grade 9 **Town** Manchester

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

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



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Manchester Manchester High School Wendy Turek

3073 LS The Effect of Nitrogen Enrichment on the Arousal of *Astrangia Pocolata* from Quiescence

Award m

Student(s) Bailey Downey

Grade 12 Town Manchester

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Award for top environmental protection project from an urban public school

Manchester Manchester High School Wendy Turek-Hernandez

3124 LS The Biodegradation of UV Treated Polypropylene and Polyethylene Terephthalate by *Aspergillus Terreus*

Award m

Student(s) Mia Hernandez

Grade 12 Town Manchester

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion