



Connecticut Science & Engineering Fair

Quinnipiac University

March 6 - 18, 2023

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

Women in Science & Engineering Awards

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

Middle School

5506 P8 Improving a Homemade Livestock Identification System for all Farmers

Award 1 Student(s) Avery Fowler Grade 8 Town Cheshire

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, 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
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies

5507 P8 Demonstrating the Persistence of Long Island Sound Polyaromatic Hydrocarbon (PAH) Contamination

Award 2 Student(s) Bridget Hadden Grade 8 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

2506 L8 How does the application of granular sodium chloride and liquid magnesium chloride before and during winter weather events affect the quality of nearby bodies of water?

Award 3 Student(s) Elizabeth D'Agostino Grade 8 Town New Britain

- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place Middle School - Trophy, Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash



Connecticut Science & Engineering Fair

Quinnipiac University

March 6 - 18, 2023

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

Women in Science & Engineering Awards

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

5505 P8 Porosity, Permeability Rates, and Water Movement Through Various Commercial Crushed Rock Sizes as it Relates to Drainage Rock in the Excavation Trade

Award m Student(s) Leah Kozerefski Grade 8 Town Gilman

- * Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * M&T Bank Mathematics Awards --- 1st Place Middle School- \$300 and Trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

5516 P8 How to See Beyond What the Eye Can See (How to build a Microscope to see objects smaller than 1 micrometer in size)

Award m Student(s) Angela Varghese Grade 8 Town Wilton

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100

High School

3018 LS Mytilus edulis ability to control harmful algae blooms from nitrogen rich fertilizer and phosphorus rich fertilizer.

Award 1 Student(s) Madeleine Hatfield Grade 12 Town Mystic

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place HS- \$300, Plaque
- * Aquarion Water Company --- 2nd. \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

6063 PS Investigating the effect of dimpled and tubercled geometries in conjunction on the drag and lift of airfoils.

Award 2 Student(s) Tasneem Zoghbi Grade 10 Town Enfield

- * Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$300 / plaque
- * U.S. Air Force --- Certificate & USAF Merchandise Package
- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- * Vanderbilt Chemicals, LLC --- \$150 Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate
- * Arthur & Ruth Mensing Award --- Mensing Award Excellence in the High School Physical Sciences - \$500



Connecticut Science & Engineering Fair

Quinnipiac University

March 6 - 18, 2023

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

Women in Science & Engineering Awards

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

3046 LS Effect of microbiota inoculants on novel bioplastic degradation: a comparative study on backyard and commercially compostable bioplastics

Award 3 Student(s) Rebecca Denhart Grade 12 Town Durham

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$200 / plaque

3006 LS Using a C++ Game Engine to Create an Interactive Model of The Interactions Between Ants or Worms With Plants and the Resulting Carbon Footprint

Award m Student(s) Samantha Schneider Grade 12 Town Bethel

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

6031 PS 3D printed, Smart Pipette for pH Sensing

Award m Student(s) Jiayi Liu Grade 10 Town Farmington

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

6083 PS Engineering a Methodology and Database to Efficiently and Effectively Discover and Classify Micrometeorites

Award m Student(s) Heather Wallace Grade 12 Town Ridgefield

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

* Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value HS

6021 PS The use of NMR to identify the LOD in mixtures of organic compounds to efficiently produce environmentally friendly biomass polymers & reduce energy loss from wasted plastic

Award m Student(s) Gouri Krishnan Grade 12 Town Darien

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion