



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 7 - 19, 2022

*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

## Urban School Challenge Awards

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

### Middle School

2006 L7 Catalace

**Award 1 Student(s) Ethan Joseph Grade 7 Town West Haven**

- \* PepsiCo Life Sciences Awards --- 1st Place- Life Sciences 7th grade - \$200 & Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- \* Computer Science Awards --- 2nd Place Middle School - \$200, Plaque
- \* 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
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5514 P8 Model System Design For Technology-Assisted Insulin Regulation

**Award 2 Student(s) Sydney Borst Grade 8 Town Danbury**

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences 8th Grade Ind, - \$100 & Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade - \$200 & Plaque
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project with \$700 stipend
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5009 P7 Impact of prediction methods on the percentage accuracy of a stock forecast.

**Award 3 Student(s) Alejandro Mayorga Grade 7 Town Danbury**

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences 7th Grade Ind. - \$100 & Plaque
- \* Mathematics Awards --- 2nd Place Middle School - \$200 and Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- \* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science



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5505 P8 Design and Testing of an Integrated 360 Degree Pi Camera System for Deep Well Rescue Mission  
 Award 4 Student(s) Sandhya Sudarsanam Grade 8 Town Danbury

- \* Lockheed Martin Physical Sciences Awards --- 4th Place - Physical Sciences 8th Grade Ind. - Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place - Middle School- \$200 / Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place Middle School - Plaque, Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Computer Science Awards --- 1st Place Middle School - \$300, Plaque
- \* Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & Plaque
- \* Raytheon Corporation Awards --- \$500, Plaque
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* IEEE, Connecticut Section --- \$250 Honors Award -Junior
- \* Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100
- \* Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2010 L7 Mealybug Management 101  
 A Study of Household Plant Pest Treatment Options  
 Award 5 Student(s) Avni Manish Grade 7 Town Newington

- \* PepsiCo Life Sciences Awards --- 4th Place- Life Sciences 7th grade - Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place Middle School - Plaque, Medallion
- \* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade - \$100 & Plaque

1017 LT How do fears change with age?  
 Award m Student(s) Shiloh Gutierrez Grade 8 Town Bridgeport  
 Alyssa Cruz Grade 8 Town Bridgeport

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion

5510 P8 The Effects of Ice Mitigation Strategies on Livestock Waterers  
 Award m Student(s) Sophia Blumenreich Grade 8 Town Danbury

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place - Physical Sciences 8th Grade Ind. - \$200 & Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* J.A. Augustine Award --- \$100 for excellence in physical sciences
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS



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4013	PT	Benefit of Granular and Mesh Filters on Concentrations of Microplastics in Water			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Krrish Brahmshatriya	Grade 8	Danbury	
		Benjamin Miller	Grade 8	Danbury	
		Alexander Herzegovitch	Grade 8	Danbury	

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences MS Team - Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade - Plaque
- \* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

5006	P7	It's not a pro, It's a robot?			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Gavin Dusel	Grade 7	Newington	

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* U.S. Air Force --- Certificate & \$25 gift card from CSEF

1005	LT	Flocculants to Mitigate Harmful Algal Blooms (HABS)			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Saket Aliminate	Grade 8	Milford	
		Sahithi Aliminate	Grade 7	Milford	

- \* PepsiCo Life Sciences Awards --- 3rd Place- Life Sciences MS Team - Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion

4006	PT	Which Type of Rocket FlN will affect a Rocket's Time, Height, and Distance the Greatest?			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Nivrith Ananth Iyer	Grade 8	West Haven	
		Parth Gokhale	Grade 8	Milford	

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Raytheon Corporation Awards --- \$500, Plaque

2001	L7	The Effects of Run-off Pollutants on the Harmful Algal Bloom (HAB) model C. Vulgaris			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Adithi Variar	Grade 7	Wallingford	

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash
- \* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award- \$459



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### High School

3009 LS Implementing Nontoxic Modified Magnetic Metal Oxide Nanoparticle Enhanced Biochar Filtration for the Efficient Removal of Emerging Contaminants in an Aqueous Solution

Award 1 Student(s) Snigtha Mohanraj Grade 9 Town Ansonia

- \* PepsiCo Life Sciences Awards --- 2nd Place- Life Sciences Senior High - \$300 & Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 1st Place High School - \$500 and Plaque, 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
- \* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- \* ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF

3002 LS Quantifying the interspecific impacts of the native relationships of the Long Island Sound

Award 2 Student(s) Sarah Davis Grade 12 Town Trumbull

- \* PepsiCo Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place High School - \$400 and Plaque, Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project with \$700 stipend

6067 PS Optimizing Desalinization of Industrial Brine Through Temperature Swing Solvent Extraction

Award 3 Student(s) Jackson Warters Grade 12 Town Milford

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place High School - \$ 300 and Plaque, Medallion
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion

6505 PST Piezoelectric Wind Harvesting Electrical Energy Conversion

Award 4 Student(s) Dylan Pueschel Grade 12 Town Hebron  
 John Watrous Grade 12 Town Hartford

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place - Physical Sciences Senior High Team- \$300(split) & Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
- \* EnergizeCT Future Sustainability Awards --- 1st Place High School - \$500 and Plaque
- \* Raytheon Corporation Awards --- \$500, Plaque
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability with \$700 stipend



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3006 LS The Use of Secondary Plant Metabolites to Reduce Pseudogymnoascus destructans Transmission Among North American Bats

Award 5 Student(s) Grace Hilton Grade 12 Town Fairfield

\* CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion

6009 PS The Use of Sodium Bicarbonate as a Local Buffer to Decrease Ocean Acidity in Localized Areas to Increase the Oyster Growth

Award m Student(s) Kennedy Carr Grade 12 Town Fairfield

\* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion

6072 PS Absorbing High Concentrations of Nitrogen using Biochar as a Preventative Measure to Mitigate the Dinoflagellate Karenia brevis.

Award m Student(s) Kelsey Farber Grade 12 Town Fairfield

\* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion

6063 PS Utilizing Rooftop Gardens as a Means of Geothermal Energy Through Ground to Air Heat Transfer Systems

Award m Student(s) Aidan King Grade 12 Town Milford

- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative/Renewable Energy Awards --- 1st Place High School - \$500 and Plaque
- \* EnergizeCT Future Sustainability Awards --- 3rd Place High School - \$200 and Plaque
- \* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- \* Frederick Olender USC Award in Memory of G. Robert Wisner --- \$250 Cash Award for HS student in USC school

6064 PS Comparing Various Machine Learning Models while Predicting Taxonomy using Codon Combinations

Award m Student(s) Shriya Jonnalagadda Grade 10 Town Danbury

\* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion

3514 LST Computational Hydroponics

Award m Student(s) Zahrion Watson Grade 11 Town bloomfield  
 Vanessa Weir Grade 11 Town Hartford  
 Khaley-shai Wyndham Grade 11 Town windsor

\* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion