



Connecticut Science & Engineering Fair

Quinnipiac University

March 6 - 18, 2023

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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

2534 L8 Design and Implementation of a Novel Machine-Learning-Based System Utilizing Feature Extraction for Precise Cervical Cancer Detection via Biopsy Sample

Award 1 Student(s) **Ethan Joseph** Grade 8 Town West Haven

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$300, 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
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * The Community Foundation for Greater Hew 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)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

4013 PT A project to benefit all of the community, with dual-language stock market course and ML stock price predictor, focusing on the Latino and Hispanic community.

Award 2 Student(s) **Alejandro Mayorga** Grade 8 Town Danbury
Matthew Guzman Grade 8 Town Danbury CT 06810

- * M&T Bank Mathematics Awards --- 2nd Place Middle School- \$200 and Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$875
- * Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100



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2509 L8 Investigating The Effectiveness Of Biochar In Remediating Soil Contamination by Heavy Metals and Hydrocarbons.

Award 3 **Student(s)** Sahithi Aliminate **Grade 8** **Town** Milford

- * Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

1002 LT Promoting Outdoors Safety By Altering Pregnancy Tests to Detect Urushiol

Award 4 **Student(s)** Alice Tran **Grade 8** **Town** Danbury
 Vianca Villacres **Grade 8** **Town** Danbury
 Thomas Lazo **Grade 8** **Town** Danbury

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences MS Team- trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

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 5 **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

4006 PT Horror of Waves

Award m **Student(s)** Kelci Keddo **Grade 8** **Town** Bridgeport
 Benardette Kudaisi **Grade 8** **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences MS Team- \$150 each & trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners



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4004	PT	What is the Effect of Grass Height on Flammability?			
Award	m	Student(s)	Grade	Town	
		Adriana Dickinson	Grade 8	Danbury	
		Emma Reda	Grade 8	Danbury	
		Hailey Sanchez	Grade 8	Danbury	

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion

2518	L8	The Effect of Plant-Based Natural Pesticides on Tenebrio Molitors.			
Award	m	Student(s)	Grade	Town	
		Christopher Mladen	Grade 8	Danbury	

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place MS- \$200, Trophy
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

4010	PT	The Benefit of an Automatic Electricity Blocking Device on Preventing Waste of Electricity			
Award	m	Student(s)	Grade	Town	
		Lea Sanchez-Dubois	Grade 8	Danbury	
		Shatarupa Mandal	Grade 8	Danbury	
		Shezan Alladin	Grade 8	Danbury	

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * IEEE, Connecticut Section --- \$250 Honors Award – Junior
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

2502	L8	The Effect of Ocean Acidification on Coral Reef Growth			
Award	m	Student(s)	Grade	Town	
		Adithi Variar	Grade 8	Wallingford	

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior



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High School

3024 LS Non-Invasive Pre-screening Approach for Early Detection of The Human Papillomavirus (HPV) to Aid in Cervical Cancer Prevention in Underrepresented Demographics

Award 1 Student(s) Ana-Lois Davis Grade 11 Town Broad Brook

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering 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
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

3124 LS Utilizing the Nematocysts of Cassiopea xamachana as a Bioactive Antiproliferative Compound

Award 2 Student(s) Grace Kistner Grade 12 Town Fairfield

- * 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 --- 2nd Place High School - \$300 and Plaque, Medallion
- * Otero Family Award --- The Otero Family Award; \$250 cash

6066 PS Investigating the application of statistical word analysis to automatically select controls from the NIST Risk Management Framework

Award 3 Student(s) Rohan Sahu Grade 11 Town Stamford

- * Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion

3016 LS Investigating the Usage of Treated Nano-Clay Composites for the Efficient Removal of Emerging Contaminants in an Aqueous Solution

Award 4 Student(s) Snigtha Mohanraj Grade 10 Town Ansonia

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * Aquarion Water Company --- 1st, \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$500



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6009 PS Spiral Redirect of Heat Exchange Flow Through a Unique Centrifugal Baffle Coupling
 Award 5 Student(s) Erika Pinto Grade 12 Town Bridgeport

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Wisner Memorial Award --- \$ 1000 cash + Silver Bowl (\$2000 cash if a team) High School
- * The Community Foundation for Greater Hew Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- * Frederick Olender USC Award in Memory of G. Robert Wisner --- \$250 Cash Award for HS student in USC school

6082 PS A Novel Multi-Trophic Bio-Filter Apparatus To Remove Point Source, Anthropogenic Eutrophication From Waste Treatment Outflows
 Award m Student(s) Tyler Lilya Grade 12 Town Stratford

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion

3031 LS Disruption of quorum sensing processes in gram negative bacteria by blocking the AI-2 pathway.
 Award m Student(s) John Murray Grade 12 Town southport

- * 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

6052 PS Using Magnetic Fields to Direct Crystallization of Calcium Carbonate to Emulate the Growth of Trabeculae Post Bone Fracture
 Award m Student(s) Jonah Rosenbaum Grade 12 Town Fairfield

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion



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3503 LST The Effect of a Calcium Chloride Solution on the Coagulation of Sodium Alginate for the Implementation in Cultures of Cyanobacteria

Award m Student(s) **Temiladeoluwa Adeniran** Grade 10 Town Seymour
Mari Arnold Grade 10 Town Stratford

* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion

6079 PS An Analysis of the Efficient Blockage of RFID Readers Based on the Thickness, Distance, and Density of Each RFID Reader Obstruction Material

Award m Student(s) **Nivrith Ananth Iyer** Grade 9 Town West Haven

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
 * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF