



# Conn. Science & Engineering Fair

## Quinnipiac University

### March 2 - 14, 2026

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

### Regular Fair Awards - Finalists

Sorted by:  
 - School Town  
 - School  
 - Last Name

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Grade	Town
Avon	Avon High School	John Salerni	3119	Hyper-Activated Interferon Pathways in Asthmatic B Cells Contribute to Exaggerated Immune Response	11	Avon
Student(s) <b>Aarika Bhave</b>						
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion						
Avon	Avon High School	John Salerni	3085	Automated Detection of Pulmonary Nodules in Computed Tomography Scans Using Deep Learning to Reduce Radiologist Workload	11	Avon
Student(s) <b>Nathaniel Lee</b>						
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion						
Avon	Avon High School	John Salerni	3172	Integrating Copy Number Alterations and Transcriptomics with Machine Learning Improves Survival Prediction in HPV-negative Head and Neck Cancer	11	Avon
Student(s) <b>Vishnu Mukku</b>						
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion						
Avon	Avon High School	John Salerni	3076	Static and Dynamic Functional Connectivity Within and Cross Reading and Default Mode Networks in Children Varying in Family Risk for Dyslexia and Reading	12	Avon
Student(s) <b>Mridhulaa Rajagopal</b>						
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion						
Avon	Avon High School	John Salerni	6103	Adaptive Machine Learning-Driven Waste Management System	10	Avon
Student(s) <b>Karthikeyen Suresh Nagan</b>						
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion						
Avon	Talcott Mountain Science Center	Kaitlyn Roberts	5003	Engineering A Durable Algae-Argonite Alkalinity System To Reduce CO2 Driven Ocean Acidification and Enhance Biological Resilience In Coastal Marine Ecosystems	7	Farmington
Student(s) <b>Raji Doshi</b>						
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 &amp; trophy</li> <li>* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place MS- \$100, Trophy</li> <li>* Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 &amp; trophy</li> <li>* Society of Women Engineers - Hartford Section --- Scientific Calculator</li> <li>* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior</li> <li>* Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering - Middle School</li> <li>* Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash MS</li> </ul>						
Avon	Talcott Mountain Science Center	Brigette Zacharczenko	2005	Sensory Triggers of Defensive Behavior in Manduca seat	7	Farmington
Student(s) <b>Sheldon Hsiao</b>						
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 7th grade- \$200 &amp; trophy</li> <li>* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy</li> </ul>						

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

**Avon** Talcott Mountain Science Center Brigette Zacharczenko

2001 Operation Brine Shrimp: Optimizing Life Conditions

**Student(s)** **Nikhil Krishnamurthy** **Grade 7** **Town** Avon

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 7th grade- \$100 & trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Avon** Talcott Mountain Science Center Kenneth Wright

2504 A Cognitive Analysis of Social Media Engagement and Multitasking Behaviors in Adult Attention and Focus Endurance

**Student(s)** **Dean Raptis** **Grade 8** **Town** West Hartford

- \* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

**Bethel** Bethel High School Raymond Turek

6046 The Effect of Hydroxyapatite Concentration Within Dentistry Composite Resin on the Wear, Acidic Erosion, and Discoloration on a Synthetic Tooth.

**Student(s)** **Amanda Almeida** **Grade 12** **Town** Bethel

- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - \$100 Cash

**Bethel** Bethel High School Ray Turek

6003 Fleet for Localized Atmospheric Research and Environmental Surveillance (FLARES): Autonomous drones and machine learning working for a cleaner environment.

**Student(s)** **Toshan Bhattacharya** **Grade 11** **Town** Bethel

- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* University of New Haven 4 Year Scholarship for Exemplary 11th Grade Project, \$120,000 (\$30,000/year)
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

**Bethel** Bethel High School Ray Turek

6029 A Multiscale Evolutionary Simulation and Machine Learning Framework to Predict Immunotherapy Failure from Tumor-Immune Interaction Dynamics

**Student(s)** **Srirama Desiraju** **Grade 12** **Town** Bethel

- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

**Bethel** Bethel High School Ray Turek

3534 Wavelet-Based Multiscale Anisotropy-Aware Cell-Cell Communication Inference and Niche Segmentation

**Student(s)** **Shravya Mankala** **Grade 11** **Town** Bethel

**Scarlett Chen** **Grade 11** **Town** Scarsdale

**Jiayu Su** **Grade 10** **Town** Ridgefield

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place - Life Sciences Senior High Team - Plaque
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque

**Bozrah** Fields Memorial School Joshua Fish

1003 The Impact of Ice Melting Substances On Unicellular Organisms In Pond Water

**Student(s)** **Analise Williams** **Grade 8** **Town** Bozrah

**Ella Sikorski** **Grade 8** **Town** Bozrah

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- \* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

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

**Bridgeport** Black Rock School Elizabeth Moran

5010 Bridge Weight Bearing Capacity

**Student(s)** **Aiden Cote** **Grade 7** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

**Bridgeport** Black Rock School Elizabeth Moran

5528 Solar vs Battery Powered Car Performance

**Student(s)** **Robert Daley** **Grade 8** **Town** Bridgeport

- \* Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$150 Cash and Trophy
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* The Bob Erickson Memorial Innovation Awards --- \$200 Cash Award- Clear Execution of Research- 8th Grade

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6075 Solid-State Synthesis Using Metal Supported Biochar to Minimize Polycyclic Aromatic Hydrocarbon Impurities

**Student(s)** **Austin Bell** **Grade 12** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner

3199 Impact of increasing water temperatures on strobilation rates in Aurelia aurita.

**Student(s)** **Calyn Fletcher** **Grade 10** **Town** fairfield

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place HS - \$300, Plaque and \$1250 Stipend to Compete at GENIUS Olympiad
- \* Aquarion Water Company --- 1st, \$300.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

**Bridgeport** Fairchild Wheeler Biotech Tara Liskov

3515 Testing the Efficacy of Non-Toxic Substances on the Destruction of Lanternflies and Egg Masses

**Student(s)** **Maxwell Egbuzie** **Grade 12** **Town** Bridgeport

**Sebastian Polanco** **Grade 12** **Town** Bridgeport

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion
- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

**Bridgeport** Fairchild Wheeler Biotech Marilyn Carolina

3036 Budgerigars' Behavioral Responses to Different Genres of Music

**Student(s)** **Carolyn Fox** **Grade 12** **Town** Bridgeport

- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion
- \* Institute of Food Technologists, Nutmeg Section --- \$75 award + invitation to Awards Night Dinner with guest

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

**Bridgeport** Fairchild Wheeler Biotech Lucien Bouffard

3109 Equine Cooling Patterns: Physiological Modification

**Student(s)** **Carly Grimm** **Grade 9** **Town** Norwalk

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* NYUC Pony Club Equine or Animal Science Awards --- \$100 Cash Award or excellence in equine studies

**Bridgeport** Interdistrict Discovery Magnet School Susan Berez

2002 Starch Wars

**Student(s)** **Alicia Palacios** **Grade 7** **Town** Bridgeport

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 7th grade- \$300 & trophy
- \* Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650
- \* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Life Sciences

**Bridgeport** IT & Software Engineering High School Ricki Chiem

6510 How Effectively Can AI Classify Waste?

**Student(s)** **Alan Brewster** **Grade 10** **Town** Milford  
**Mikayla Larbi** **Grade 10** **Town** Bridgeport  
**Brandon Granados Pastora** **Grade 10** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Team- \$200 (split) & Plaques
- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 4th Place High School - Plaque, 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 (\$455)

**Bridgeport** IT & Software Engineering High School Ricki Chiem

6094 Designing Metalloid bags to help reduce static buildup in powders

**Student(s)** **Ayden Gamble** **Grade 11** **Town** Bridgeport

- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place High School - Plaque, Medallion
- \* University of Hartford 4 Year Scholarship for Excellence in Engineering or Technology, Grade 11 only, \$30,000/year

**Bridgeport** John Winthrop School Srilakshmi Kongani

5510 Insulation Investigation

**Student(s)** **Lavinya Baence** **Grade 8** **Town** Bridgeport

- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by ONR
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Anonymous Friends of the Fair Family Awards --- 3rd place - \$100 - For Excellence in Engineering Middle School

**Bridgeport** John Winthrop School Srilakshmi Kongani

5520 The War of Energy Efficiency

**Student(s)** **Anthony Gomes** **Grade 8** **Town** Bridgeport

- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy

**Bridgeport** John Winthrop School Erin Snow

5012 Catalase's pH sweet spot

**Student(s)** **Jacob Lin** **Grade 7** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 7th Grade Ind. - trophy

[SchTown] [School] [Teacher]  
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**Bridgeport** Multicultural Magnet School Corina Starn

4006 SMART CANE

**Student(s)** **Erick Aquino** **Grade 8** **Town** Bridgeport  
**Dhavid Caetano** **Grade 8** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences MS Team- \$200 (split) & trophies
- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- \* Wisner Chairman's Award --- \$500 cash & plaque
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

**Bridgeport** Warren Harding High School Shelton Neale

3117 Plants Grow in Different Soils

**Student(s)** **Joseph Colon-Machado** **Grade 11** **Town** Bridgeport

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- \* Earth Forward Group, LLC --- 1st Prize for Sustainable, Agriculture and Food Systems \$250 cash
- \* Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash HS

**Cheshire** Cheshire High School Julie Barker

6030 Towards Faster Materials Simulation: GPU-Optimized Neural Networks for Interatomic Potentials

**Student(s)** **Raine Ma** **Grade 11** **Town** Cheshire

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences Senior High Individual - \$150 & Plaque
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$100 & plaque
- \* Anonymous Friends of the Fair Family Awards --- 1st place - \$250 - For Excellence in Engineering High School
- \* Quinnipiac University 4 Year Scholarship in Computing \$30,000 (\$7500/year)

**Danbury** Saint Joseph School Kathleen Spina

2004 Does your choice of footwear have a significant impact on your jumping ability?

**Student(s)** **Emily Bauco** **Grade 7** **Town** Danbury

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5rd Place- Life Sciences 7th grade- trophy

**Danbury** Saint Joseph School Kathleen Spina

2506 Homemade Water Filtration

**Student(s)** **Ryder Maravilla** **Grade 8** **Town** Danbury

- \* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion

**Danbury** Saint Joseph School Kathleen Spina

2009 Does Chocolate Improve Memory?

**Student(s)** **John Zilliox** **Grade 7** **Town** Danbury

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences 7th grade- trophy

**Danbury** St. Gregory the Great School Christine Fahey

5011 The Hot-Weather Whiff Effect

**Student(s)** **Slok Mishra** **Grade 7** **Town** Danbury

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences 7th Grade Individual - trophy

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**Danbury** St. Gregory the Great School Christine Fahey

1005 The effect of location on water quality of the Upper Saugatuck River Watershed using macroinvertebrate metrics.

**Student(s)** **Gemma Molisani** **Grade 8** **Town** Redding  
**Lucia Molisani** **Grade 8** **Town** Redding

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences MS Team- trophy
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place MS - \$200, Trophy

**Danbury** St. Gregory the Great School Christine Fahey

2511 Novel & Portable Cards For Detection of Common Food Allergens

**Student(s)** **Rahil Shah** **Grade 8** **Town** Danbury

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences 8th grade- trophy
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- \* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest
- \* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

**Danbury** Westside Middle School Academy Nancy Barlow

4001 What desalinates water the most efficiently; Solar Distillation, Reverse Osmosis, and Boiling

**Student(s)** **Joseph Brocia** **Grade 7** **Town** Danbury, CT  
**Colin Guidotti** **Grade 7** **Town** Danbury  
**Brian Saltzman** **Grade 7** **Town** Danbury

- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- \* EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* IEEE, Connecticut Section --- \$250 Honors Award -Junior

**Danbury** Westside Middle School Academy Nancy Barlow

1006 The Effect of Acid Rain on Plants Around the World

**Student(s)** **Brooke Cyphers** **Grade 7** **Town** Danbury  
**Margo Anderson** **Grade 7** **Town** Danbury

- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- \* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy

**Danbury** Westside Middle School Academy Nancy Barlow

1001 The Effect of Different Music Genres on Time it Takes Ants to Travel

**Student(s)** **Zahir Guaman** **Grade 8** **Town** Danbury  
**Jhon Ramirez** **Grade 8** **Town** Danbury  
**Frandell Olea** **Grade 8** **Town** Danbury

- \* 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 --- 4th Place Middle School - Trophy, Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion

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

**Danbury** Westside Middle School Academy Nancy Barlow

4009 What is the Affect of Wing Design on the Speed a Model Plane Flies?

<b>Student(s)</b>	<b>Shihan Lin</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Isabella Amenta</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Ally Kay</b>	<b>Grade 8</b>	<b>Town</b> Danbury

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences MS Team- trophies
- \* Connecticut Science Fair Association Mathematics Awards --- Middle School Finalist - Medallion
- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$200 & trophy
- \* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100

**Danbury** Westside Middle School Academy Nancy Barlow

1020 How Do Organisms Affect The Rate Off Food Decomposition?

<b>Student(s)</b>	<b>Reina Melendez</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Sophia Cardenas</b>	<b>Grade 8</b>	<b>Town</b> Danbury

- \* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* Earth Forward Group, LLC --- 3rd Prize for Sustainable, Agriculture and Food Systems \$100 cash

**Danbury** Westside Middle School Academy Nancy Barlow

4005 Can You Detect Muons and Cosmic Rays Using Household Materials? How do Coronal Mass Ejections affect the number of muons and cosmic rays detected?

<b>Student(s)</b>	<b>Sean O'Marra</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Alius Santiago-Stra</b>	<b>Grade 8</b>	<b>Town</b> Danbury

- \* 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 --- 5th Place Middle School - Trophy, Medallion
- \* Astronomical Society of Greater Hartford - The Charles Hammond for Excellence in Astronomy Award --- Junior Top Project-\$500, subscription to Sky and Telescope, ASGH membership and meeting invitation

**Danbury** Westside Middle School Academy Nancy Barlow

1027 Keeping It Cool & Damp

<b>Student(s)</b>	<b>Madison Rowe</b>	<b>Grade 7</b>	<b>Town</b> Danbury
	<b>Sophia Fernandes</b>	<b>Grade 7</b>	<b>Town</b> Danbury
	<b>Makayla Roxo</b>	<b>Grade 7</b>	<b>Town</b> Danbury

- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Danbury** Westside Middle School Academy Nancy Barlow

4013 The Effect of Electrolyte Concentration on the Voltage Produced by a Baghdad Battery

<b>Student(s)</b>	<b>Logan Schneider</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Daniel Sposato</b>	<b>Grade 8</b>	<b>Town</b> Danbury

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

[SchTown] [School] [Teacher]  
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**Danbury** Westside Middle School Academy Nancy Barlow

4017 The Effect of Phone Case Materials on EMF Radiation from an iPhone Under Various Scenarios.

**Student(s)** **Gowtham Vallinayagam** **Grade 8** **Town** Danbury  
**Edward Sola** **Grade 8** **Town** Danbury  
**Rafael Barreto** **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
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- \* 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

**Danbury** Westside Middle School Academy Nancy Barlow

1013 How can we use phytoremediation to extract different heavy metals out of soil?

**Student(s)** **Rhea Yadav** **Grade 8** **Town** Danbury  
**Aanya Popuri** **Grade 8** **Town** Danbury

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

**Darien** Darien High School David Lewis

6085 Functionalizing DNA Nanotechnology: Optimizing the Impact of Buffer Conditions on Chemical Ligation

**Student(s)** **Claire Chan** **Grade 12** **Town** Darien

- \* Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$200 & plaque
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

**Darien** Darien High School Ayman Reffai

3169 Explanatory machine learning modeling of a seven-molecular marker panel for immune checkpoint inhibition response per RECIST v1.1 in metastatic urothelial carcinoma

**Student(s)** **Matthew Li** **Grade 12** **Town** Darien

- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

**East Lyme** East Lyme High School Jian Li

3006 Multimodal Deep Learning for BI-RADS Classification Prediction Using Breast Ultrasound and Patient Clinical Data

**Student(s)** **Danlu Li** **Grade 10** **Town** East Lyme

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

**East Lyme** East Lyme Middle School Jung Hyun Kim

2516 Predicting Erosive Potential: Comparing Acid Type and Titratable Acidity in Common Beverages

**Student(s)** **Ayden Kim** **Grade 8** **Town** East Lyme

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Farmington** Farmington High School Alexandra Raymunt

6535 Quantifying Caffeine Content in Commercially Labeled Caffeinated versus Decaffeinated Products

**Student(s)** **Pranit Bagchi** **Grade 11** **Town** Farmington  
**Liora Dorsett** **Grade 11** **Town** Farmington

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

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

**Farmington** Farmington High School Alexandra Raymunt

3069 Optimizing Bromelain and Papain Protease Formulations to Preserve Catalytic Activity Under Simulated Human Gastrointestinal Stress

**Student(s)** **Rajanya Bishi** **Grade** 10 **Town** Farmington

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

**Farmington** Farmington High School Alexandra Raymunt

6520 Utilizing Banana Peels to Depollute Water

**Student(s)** **Aniket Menon** **Grade** 10 **Town** Unionville  
**Andrew Nguyen** **Grade** 10 **Town** Farmington  
**Daniel Marimekala** **Grade** 10 **Town** Farmington

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place - Physical Sciences Senior High Team - Plaque  
\* IEEE, Connecticut Section --- \$250 Honors Award -Senior

**Farmington** Farmington High School Alexandra Raymunt

3188 Characterizing Direct and Immune-Mediated Anti-Neoplastic Effects of Acute Exercise-Conditioned Serum on High-Grade Serous Carcinoma

**Student(s)** **Nithin Solomon** **Grade** 12 **Town** Unionville

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

**Glastonbury** Glastonbury High School Stephen Falcigno

6079 OPTIMIZATION FEASIBILITY ANALYSIS OF COMPLIANT MECHANISM REPLACEMENTS OF HYDRAULICS IN PENDULUM TUNED MASS DAMPERS

**Student(s)** **Diego Aguilar** **Grade** 12 **Town** South Glastonbury

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences Senior High Individual - Plaque  
\* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
\* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF  
\* Anonymous Friends of the Fair Family Awards --- 3rd place - \$100 - For Excellence in Engineering High School

**Glastonbury** Glastonbury High School Stephen Falcigno

6035 Green Cellulose Extraction From Autumn Leaves For Biodegradable Packaging Films

**Student(s)** **Ioana Popescu** **Grade** 11 **Town** Glastonbury

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion  
\* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

**Glastonbury** Glastonbury High School Stephen Falcigno

3161 Experimental Validation of Computational Tools for Nanobody Affinity Maturation

**Student(s)** **Anya Srivastava** **Grade** 11 **Town** Glastonbury

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

**Greenwich** Brunswick School Dana Montanez

3536 Biochar as a Bioremediation Method to Control Microplastic Effects on Agricultural Crops

**Student(s)** **Giancarlo Cuesta** **Grade** 10 **Town** Stamford  
**Quinn Cunningham** **Grade** 10 **Town** Greenwich

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion  
\* Earth Forward Group, LLC --- 2nd Prize for Sustainable, Agriculture and Food Systems \$150 cash

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

**Greenwich** Brunswick School Dana Montanez

6504 Teaching Artificial Intelligence to Detect Focal Seizures Accurately Using a Camera System.

**Student(s)** **Jude Evans** **Grade** 10 **Town** Greenwich  
**Collin McCreath** **Grade** 10 **Town** Ryebrook

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences Senior High Team- \$300 (split) & Plaques
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

**Greenwich** Brunswick School Dana Montanez

6047 Applying Causal Inference Methodologies to a Large-scale Publicly Available Dataset to Assess Causality Between Nutrient Deficiencies and ADHD Diagnoses

**Student(s)** **Sohan Javeri** **Grade** 10 **Town** Greenwich

- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

**Greenwich** Brunswick School Dana Montanez

3530 An investigation of Methylene Blue's Neuroprotective ability to Inhibit Excess Glutamate in aquatic Invertebrates.

**Student(s)** **Jayden Montanez** **Grade** 11 **Town** Greenwich  
**Callum Holl** **Grade** 11 **Town** Old Greenwich

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

**Greenwich** Brunswick School Dana Montanez

3507 Antioxidant Delivery using Food Grade Nanoclay as a strategy to emulsify lipids and potentially reduce LDL oxidation.

**Student(s)** **Nathaniel O'Connor** **Grade** 11 **Town** Chappaqua  
**Tyrus Ostrowski** **Grade** 11 **Town** Port Chester

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

**Greenwich** Brunswick School Dana Montanez

3519 Comparative Analysis of Biopolymer Hydrogels: an Investigation of Degradability, Nitrogen Leaching, and Plant Growth.

**Student(s)** **Chris Pedlow** **Grade** 11 **Town** Cos Cob  
**Gabriel Levy** **Grade** 11 **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

**Greenwich** Brunswick School Dana Montanez

3177 Preventing Zoonotic Parasitic Growth in Freshwater Aquaculture Using Aerogel Praziquantel Feed Additives

**Student(s)** **Sawyer Sacks** **Grade** 11 **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences Senior High- Plaque
- \* Aquarion Water Company --- 3rd \$200.00 Cash - Grade 9-12 For Excellence in Water Quality or Environment Management

**Greenwich** Brunswick School Dana Montanez

6039 Comparative Study of Magnetohydrodynamic Propulsion Designs for Marine Applications

**Student(s)** **Jack Wendell** **Grade** 11 **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - \$100 Cash

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

**Greenwich** Central Middle School Andrew Bramante

2503 In situ, Natural Degradation of Cyanotoxins in Water by *L. acidiphilus*, with Concurrent Stimulation of the Aquatic Ecosystem

**Student(s)** Clarissa Maldonado **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 8th grade- \$300 & trophy
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$300 & trophy
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

**Greenwich** Central Middle School Andrew Bramante

2508 Investigating the Inclusion of Hair Extracted Keratin Nanostructures for Increased Strength and Flexibility for the Construction of an Artificial Anterior Cruciate Ligament

**Student(s)** Juliette Prezioso **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$150 / trophy
- \* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place Middle School - \$200, Trophy
- \* Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$150 & trophy
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

**Greenwich** Central Middle School Andrew Bramante

5502 Repurposing Carbon Combustion Residuals from a Landfill Waste to a Beneficial Soil Additive

**Student(s)** Morgan Schwartzstein **Grade 8** **Town** Greenwich

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy

**Greenwich** Eastern Middle School Andrew Bramante

2517 A Web-Based Detection Tool for Medical Conditions Effecting the Eye: Integrating Multiple Trained CNNs for Accessible Smartphone Screening

**Student(s)** Ares Bandebo-Cambra **Grade 8** **Town** Old Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$200, Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* Quinnipiac University 4 Year Scholarship in Computing \$30,000 (\$7500/year)

**Greenwich** Eastern Middle School Andrew Bramante

5515 Computer Simulation for School Traffic Optimization

**Student(s)** Ivyn Chen **Grade 8** **Town** Greenwich

- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion
- \* Anonymous Friends of the Fair Family Awards --- 2nd place - \$150 - For Excellence in Engineering Middle School

**Greenwich** Eastern Middle School Andrew Bramante

5501 Fabrication of a UV-A versus UV-B Dual-Wavelength, Wearable Patch

**Student(s)** Julia Gitelman **Grade 8** **Town** Old Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences 8th Grade Ind. - trophy

[SchTown] [School] [Teacher]  
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**Greenwich** Eastern Middle School Andrew Bramante

5506 OASIS: A Solar-Powered Off-Grid System for Harvesting Water from Subsurface Sand Moisture to Support Desert Vegetation Recovery

**Student(s)** **Jiahao Luo** **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- \* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- \* Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

**Greenwich** Eastern Middle School Andrew Bramante

2502 Can Dietary Anti-oxidant Pre-treatment Control the Hyperphosphorylation of Tau Protein,

**Student(s)** **Neil Mikkilineni** **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5th Place- Life Sciences 8th grade- trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Greenwich** Eastern Middle School Andrew Bramante

2509 Machine Learning-Based Analysis of Smartphone Behavioral Data for Detection of Depression in High School and College Students

**Student(s)** **Srihari Mysore** **Grade 8** **Town** Cos Cob

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

**Greenwich** Greenwich Country Day School Nathan Haag

3121 Engineering a Thermostable Enzyme for the Degradation of PET Through Manipulation of Disulfide Bonds

**Student(s)** **Jackson Lieberman** **Grade 11** **Town** Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante

3094 Determining how prevalence of single nucleotide polymorphisms alters HLA molecule's expression, and dictates Juvenile Idiopathic Arthritis' best treatments in specific populations

**Student(s)** **Tessa Addeo** **Grade 10** **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$200, Plaque
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75 gift card given by ONR
- \* Otero Family Award --- The Otero Family Award; \$250 cash

**Greenwich** Greenwich High School Andrew Bramante

3014 CD44-Targeted Nanoparticle Co-Delivery of Simvastatin and Colchicine for Localized Treatment of Atherosclerotic Plaque Inflammation in Cardiovascular Disease

**Student(s)** **Arnav Bhatia** **Grade 11** **Town** Old Greenwich

- \* Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology Senior High - plaque

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
Greenwich	Greenwich High School	Andrew Bramante	3101	Design of a Fluorescence-Based, Point-of-Care Diagnostic for Chronic Kidney Disease via Smartphone Detection of Salivary Creatinine-Porphyrin Conjugation	Rajsi Choudhary	Grade 9	Riverside
* Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque							
Greenwich	Greenwich High School	Andrew Bramante	3104	Colorimetric Sensory Detection of High Levels of Uric Acid and Endothelin-1 for Early Pulmonary Hypertension	Amelia Foell	Grade 11	Greenwich
* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion							
Greenwich	Greenwich High School	Andrew Bramante	3028	A Novel Dual-Targeting Therapeutic Patch for Non-Addictive, Non-Opioid Pain Suppression via Selective Transient Receptor Potential (TRP) Modulation	Nishant Jain	Grade 11	Riverside
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion							
Greenwich	Greenwich High School	Andrew Bramante	6060	Bridging the Sim-to-Real Gap in Autonomous Drone Control via Curriculum-Scheduled Domain Randomization	Henry Jin	Grade 12	Greenwich
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion							
Greenwich	Greenwich High School	Andrew Bramante	3020	Exploration of Neuroprotective potential of Moringa oleifera against Alzheimer's Disease and Drosophila Alzheimer's model validation	Raymond Li	Grade 11	riverside
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion							
Greenwich	Greenwich High School	Andrew Bramante	6019	Harvesting Energy using Rain: Self-Healing Triboelectric Nanogenerators using CNT Composite Paper to Produce Meaningful Energy Production	Richard Lu	Grade 9	Greenwich
* EnergizeCT Future Sustainability Awards --- 1st Place High School - \$300, Plaque & \$1250 Stipend to Compete at GENIUS Olympiad							
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion							
Greenwich	Greenwich High School	Andrew Bramante	3185	Development of a Novel Nanoparticle Drug Delivery System using OLAH Targeting to Deliver Surfactant Protein and Prevent Neonatal Respiratory Distress Syndrome	Tyler Malkin	Grade 10	Greenwich
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion							
* Regeneron Biomedical Science Award --- Certificate & \$375.00 cash							
Greenwich	Greenwich High School	Andrew Bramante	3125	Creation of PACA nanoparticles with a chitosan bilayer for effective oral delivery of a sildenafil PDE-5	Neil Pendkar	Grade 11	Old Greenwich
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion							
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75 gift card given by ONR							

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**Greenwich** Greenwich High School Andrew Bramante

3059 Discovery and Validation of Biopolymer Coatings for Nanoparticle-Loaded Silk Fibroin Sutures to Accelerate Tissue Regeneration with a Novel Multimodal Machine Learning Model

**Student(s)** Raghav Ramji **Grade** 10 **Town** Riverside

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Connecticut Science Supervisors Association --- \$225 for a high school project

**Greenwich** Greenwich High School Andrew Bramante

3133 Design of a Novel, Dual-Functioning, T-Cell-Engaging and Cytarabine-Based Nanotherapeutic for Acute Myeloid Leukemia Treatment

**Student(s)** Lula Wang **Grade** 11 **Town** Old Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque

**Greenwich** Greenwich High School Andrew Bramante

6097 Process Optimization of Green Chemistry Pathway for Fabric-to-Fabric Recycling of Cotton

**Student(s)** Marley Wies **Grade** 12 **Town** Old Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place - Physical Sciences Senior High Individual - \$300 & 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
- \* Freeman Family Excellence in Chemistry Awards --- \$200 For Excellence in Chemistry or Chemical Engineering - High School

**Greenwich** Greenwich High School Andrew Bramante

3007 Novel On Chip Screening Device for Ovarian Cancer with Algorithm from SVM-RFE on Serum miRNA Relative Expression Orderings

**Student(s)** Sophie Yu **Grade** 11 **Town** Riverside

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

**Greenwich** Sacred Heart Greenwich Joyce Reed

3203 Hearing Loss's Correlation to Anxiety

**Student(s)** Haley Blackwell **Grade** 12 **Town** Rye

- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* 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
- \* Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

**Greenwich** Sacred Heart Greenwich Mary Musolino

4007 Evaluating Biodegradable Plastics Made from Avocados, Bananas, and Mangos

**Student(s)** Lauren Davidoff **Grade** 8 **Town** Pelham  
Grace Nicholas **Grade** 8 **Town** Armonk

- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

[SchTown] [School] [Teacher]  
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**Greenwich** Sacred Heart Greenwich Mary Musolino

4014 Purifying Water using Different Types of Graphene to Adsorb Harmful Pollutants

**Student(s)** **Adriana Hassani-Sadi** **Grade 8** **Town** Old Greenwich  
**Malaika Bazie** **Grade 8** **Town** White Plains

- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Aquarion Water Company --- 2nd. \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

**Greenwich** Sacred Heart Greenwich Joyce Reed

3015 Understanding The Effects of Music Usage On Caregivers of Alzheimer's Patients

**Student(s)** **Grace Mucciaa** **Grade 12** **Town** Rye

**Greenwich** Sacred Heart Greenwich Mary Musolino

4018 Bio Fuel from Bamboo: Comparing the Yield of Ethanol Produced from Fermentation to the Bio Oil Produced from Solvent Extraction

**Student(s)** **Riley Williams** **Grade 8** **Town** Harrison  
**Paula Tonkovich** **Grade 8** **Town** New Canaan

- \* EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist - Medallion

**Greenwich** Western Middle School Andrew Bramante

5505 Creating a Crab Trap That Uses Computer Vision To Detect and Capture the Invasive European Green Crab

**Student(s)** **Laila McQueen** **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 8th Grade Ind.- \$200 & trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$200 / trophy
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place MS- \$150, Trophy
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- \* Jon Stone Memorial Awards --- Jon Stone Award for Innovative Engineering- \$100
- \* Quinnipiac University 4 Year Scholarship in Engineering \$30,000 (\$7500/year)

**Greenwich** Western Middle School Andrew Bramante

5526 Comparative analysis of CO2 Reduction by Common Houseplants Using an Arduino-Based Environmental Monitoring System

**Student(s)** **Victoria Shkabarnya** **Grade 8** **Town** Greenwich, CT

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 8th Grade Ind. - \$150 & trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Pepsico Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100
- \* Zepke Awards --- \$120 - For the Best Use of Electronic Circuitry- Middle School

**Hamden** Hamden Hall Country Day School Paulomi Aldo

5014 What is the Lowest Ratio of Earth to Mars Soil in which Plants can be Grown?

**Student(s)** **George Hirsch** **Grade 7** **Town** North Haven

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

[SchTown] [School] [Teacher]  
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**Hamden** Hamden Hall Country Day School Alice Loth

6095 Innovated Emergency Vital Sign Detector

**Student(s)** Rhea Hu **Grade** 10 **Town** North Haven

- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

**Hamden** Hamden Hall Country Day School Jacob Marchesi

6522 Active Noise Cancellation Efficiencies of an Adaptive ANC System Using Destructive Interference to Reduce Harmful Low-frequency Urban Noise.

**Student(s)** Frida Ramirez Moreno **Grade** 11 **Town** Meriden

Barbara Ramirez Moreno **Grade** 12 **Town** Meriden

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
- \* University of New Haven 4 Year Scholarship for Exemplary 11th Grade Project, \$120,000 (\$30,000/year)

**Hamden** Sacred Heart Academy Elizabeth Christophy

6502 Comparing  $\alpha$ -Pinene Emissions from Local Wood's Smoke Through Polarimetric Data

**Student(s)** Persephone Delaney Delaney **Grade** 10 **Town** Wallingford

Cathleen Coughlin **Grade** 10 **Town** North haven

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

**Kent** Kent School Jesse Klingebiel

3088 Ginger-Derived Exosomes Inhibit Microbial Contamination in Aqueous Environment

**Student(s)** Leni Fan **Grade** 10 **Town** Lexington

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

**Kent** Kent School Michael Green

3058 MelodyMemo: A Novel Emotion-Aware Memory-Music Modeling and Recommendation System for Older Adults

**Student(s)** Newton Niu **Grade** 11 **Town** Stamford

- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Bushnell Center for Performing Arts --- Pair of Tickets to & Juliet for top project that is behavioral or social sciences related

**Kent** Kent School Jesse Klingebiel

6092 Modular Development of a Pneumatic Lumbar Exoskeleton for Assisting Stoop Lifting

**Student(s)** Yu Tung Shan **Grade** 10 **Town** Kent

- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Wisner Chairman's Award --- \$500 cash & plaque

**Kent** Kent School Jesse Klingebiel

6098 Assessment of Walking Ability in Parkinson's Patients Using Three-Dimensional Plantar Pressure Sensors

**Student(s)** Tianrui Zhang **Grade** 11 **Town** Kent

- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Quinnipiac University 4 Year Scholarship in Engineering \$30,000 (\$7500/year)

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**Manchester** Manchester High School Stefanie Sebastiao-Kirby

3159 The Impact of Presentation Styles on Engagement in High School Math Classes

**Student(s)** **Shaelan Gara Grady** **Grade 12** **Town** Manchester

\* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place High School - \$ 100 and Plaque, Medallion

**Manchester** Manchester High School Wendy Turek

3524 Investigating Genetic Correlations Between Down Syndrome and Congenital Heart Defects Through Biostatistical Analysis to Develop a Predictive Model

**Student(s)** **Grace Golas** **Grade 12** **Town** Manchester

**Aine Corbett-Cousins** **Grade 12** **Town** Manchester

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

**Manchester** Manchester High School Stefaine Sebastiao-kirby

3112 Investigation of Reptile UV bulb on vitamin D2 synthesis in pulverized oyster mushrooms : An analysis over 0, 1, 2, and 3 hour durations using Thin Layer Chromatography (TLC).

**Student(s)** **Warda Iqbal** **Grade 12** **Town** Manchester

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

**Mansfield** Edwin O. Smith High School Cheryl Granger

3528 Optimizing Jurkat Cell Cryopreservation Formulation for Safer T-Cell Therapy

**Student(s)** **Alice Han** **Grade 11** **Town** Storrs

**Bibhuti Marasini** **Grade 11** **Town** Storrs

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

\* Marty Putnam Foundation Awards --- Top Project in Cell or Gene Therapy or Immunology, 1st Place \$300

**Mansfield** Edwin O. Smith High School Cheryl Granger

3211 Researching the Effects Of Different Concentrations of Formaldehyde on the Presence of Different Species of Bacteria in Soil

**Student(s)** **Avery Hancock-Braun** **Grade 10** **Town** Storrs

\* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

\* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

**Meriden** H. C. Wilcox Technical High School Jeffrey Daddona

6518 Using storm water run off to generate clean energy and water.

**Student(s)** **Chase Andrews** **Grade 11** **Town** wallingford

**Riley Keyes** **Grade 11** **Town** wallingford

**Kyle Miranda** **Grade 11** **Town** Meriden

\* EnergizeCT Technical High School Science & Technology Awards --- 3rd Place- Technical High School , \$100, Plaque

\* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place High School - \$100 Cash and Plaque

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

**Montville** Saint Thomas More School Yajamana Ramu

3129 Towards Climate-Smart Agriculture: Decoding PP2C Gene Functions for Abiotic Stress Resilience in Maize

**Student(s)** **Ami Rastogi** **Grade 11** **Town** Monroe Township

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

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

\* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

\* Marty Putnam Foundation Awards --- Top Project in Cell or Gene Therapy or Immunology, 2nd Place \$200

[SchTown] [School] [Teacher]  
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**New Haven** Engineering and Science University Magnet Alyssa Anderson

3038 Implementation and Validation of a Novel Machine-Learning Framework for Classifying Fossil Invertebrates Using Quantitative Morphological Trait Matrices

**Student(s)** Sahithi Aliminate **Grade** 11 **Town** Milford

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* University of Hartford 4 Year Scholarship for Excellence in Science or Math, Grade 11 only, \$30,000/year

**New Haven** Engineering and Science University Magnet Alyssa Anderson

5008 BiteSight: Development of a Mobile Deep Learning Application for Bug Bite Identification

**Student(s)** Cayden Joseph **Grade** 7 **Town** West Haven

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 7th Grade Ind. - \$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
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$200 & trophy
- \* Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Physical Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650
- \* The Bob Erickson Memorial Innovation Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

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

6007 Real-Time Adaptive Support for Dementia: An Integrated Multimodal Device for Spatial and Auditory Guidance

**Student(s)** Ethan Joseph **Grade** 11 **Town** West Haven

- \* 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

**New Haven** Engineering and Science University Magnet Alyssa Anderson

6530 Gpu price to performance per game.

**Student(s)** Maceo Regan **Grade** 9 **Town** Milford

antonio roblero **Grade** 9 **Town** fair haven

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

**New Haven** Engineering and Science University Magnet Alyssa Anderson

3156 Capturing Carbon Dioxide with Chemical Solutions of Varying Alkalinity

**Student(s)** Anabelle Silverman **Grade** 9 **Town** New Haven

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

**New Haven** Hopkins School Viktoriia Kolesnyk

3097 Understanding Uterus Wound Healing and Tissue Remodeling: The Role of Fibroblast Growth Factor 2

**Student(s)** Derin Bahtiyar **Grade** 11 **Town** New Haven

- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
New Haven	Hopkins School	Phillip Stewart	6040	Arduino-Based Active Stabilization System for Model Rockets Using IMU Feedback and Servo-Driven Fins	Aiden Gomez	Grade 10	Orange
<ul style="list-style-type: none"> <li>* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion</li> <li>* U.S. Air Force --- Certificate &amp; USAF Merchandise Package</li> </ul>							
New Haven	Hopkins School	Z Ping Lin	3078	Investigating the Role of Rad52 Inhibition in HR Repair in Ovarian Cancer	Riya Rao	Grade 12	Woodbridge
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion</li> </ul>							
New Haven	Hopkins School	Leilei Shinohara	5521	Optical Fire Detection using Computer Vision	Maki Lawrence Shinohara	Grade 8	New Haven
<ul style="list-style-type: none"> <li>* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion</li> <li>* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project</li> <li>* Jon Stone Memorial Awards --- Jon Stone Award for Innovative Engineering- \$100</li> </ul>							
New Haven	Hopkins School	Yi Wang	3025	Nano-Enabled Defense: Using Sulfur Nanoparticles to Limit Cadmium in Soybeans	Luannie Wang	Grade 10	Guilford
<ul style="list-style-type: none"> <li>* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place HS- \$200, Plaque</li> </ul>							
New Haven	Wilbur Cross High School	John Lazzari	3140	Studying Compositionality in Multitasking Artificial Neural Networks for Motor Control	Julian Theodore	Grade 12	New Haven
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion</li> <li>* Urban School Challenge Awards with Connecticut Academy of Science &amp; Engineering and OTIS --- 2nd Place High School - \$200, Plaque &amp; \$1250 Stipend to Compete at Genius Olympiad</li> </ul>							
New Haven	Worthington Hooker School	Douglas Jones	1030	Natural Cleaners vs Chemical Cleaners	Paulina Borowski Camila Guerrero Diaz	Grade 8 Grade 8	New Haven New Haven
<ul style="list-style-type: none"> <li>* Urban School Challenge Awards with Connecticut Academy of Science &amp; Engineering and OTIS --- Middle School Finalist - Medallion</li> </ul>							
New Milford	Canterbury School	Woo Rin Lee	3061	Eco-Friendly Floating Bio-Island for Simultaneous Removal of Heavy Metals from Polluted Water Using Aquatic Macrophytes	Minhyo Tae	Grade 11	Seoul, South Korea
<ul style="list-style-type: none"> <li>* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion</li> </ul>							
North Haven	Slate School	Jennifer Staple-Clark	2514	A Microbiology Study of Ancient and Modern Flours: Comparing Microbial and Chemical Changes in Leavening Systems	Pierson Clark	Grade 8	North Haven
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 8th grade- \$200 &amp; trophy</li> <li>* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place Middle School - \$100, Trophy</li> </ul>							

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

**Norwich** Norwich Technical High School Kaitlin McKale

3526 Using Loop-Mediated Isothermal Amplification (LAMP) for Hydrilla Verticillata Identification in New England Waters

**Student(s)** **Jarelis Acevedo** **Grade 12** **Town** Norwich

**Addison Hackett** **Grade 12** **Town** Willimantic

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion
- \* EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, \$300, Plaque & \$1250 Stipend to Compete at GENIUS Olympiad
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place HS- \$100, Plaque

**Norwich** Norwich Technical High School Kaitlin McKale

3010 Blue Oyster Cult(ure): Using Pleurotus for Mycoremediation of Water Contaminants

**Student(s)** **Debbie Calixto Mota** **Grade 11** **Town** Willimantic

- \* EnergizeCT Technical High School Science & Technology Awards --- 2nd Place- Technical High School , \$200, Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- \* University of New Haven 4 Year Scholarship for Exemplary 11th Grade Project, \$120,000 (\$30,000/year)

**Norwich** Norwich Technical High School Kaitlyn McKale

3098 what plants bees prefer to pollinate with

**Student(s)** **Elijah Jackman** **Grade 11** **Town** voluntown

- \* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion

**Norwich** Norwich Technical High School Kaitlin Mckale

3196 The Effects of Skin Care Products on the Face Microbiome

**Student(s)** **Emma Stimson** **Grade 11** **Town** Moosup

**Plainville** Plainville High School Michelle Bellinger

6005 Improving Airplane Efficiency and Maximizing a Sustainable Angle of Attack Through Acoustic Streamlining

**Student(s)** **Raman Kasabrukhu** **Grade 10** **Town** Plainville

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* U.S. Air Force --- Certificate & USAF Merchandise Package

**Ridgefield** Ridgefield High School Patrick Hughes

6523 A Nuclear Magnetic Resonance Spectroscopy Study of Five Di-imine Molecules

**Student(s)** **Eva Figlar** **Grade 12** **Town** Ridgefield

**Anahit Abernethy** **Grade 11** **Town** Ridgefield

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

**Ridgefield** Ridgefield High School Ryan Gleason

3141 Prevalence of Pathogens in Asian Longhorn Ticks (Haemaphysalis Longicornis) in Bridgeport Connecticut

**Student(s)** **Sara Hill** **Grade 12** **Town** Ridgefield

- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$200 / plaque
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project

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

**Rocky Hill** Rocky Hill High School Brian Graca

6090 Evaluating Post-Pandemic Recoveries in Standardized Test Scores across Connecticut School Districts and their Explanatory Factors

**Student(s)** **Akaansha Ganisshan** **Grade** 11 **Town** Rocky Hill

\* Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion

**Rocky Hill** Rocky Hill High School Sharon Parker

3053 The correlation of gut microbes with depression in patients with multiple sclerosis

**Student(s)** **Tanisha Sahu** **Grade** 11 **Town** Rocky Hill

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

\* University of Hartford 4 Year Scholarship for Excellence in Science or Math, Grade 11 only, \$30,000/year

**Salisbury** Indian Mountain School Marissa Teator

1014 The Dividing Line of Language: A Computational Model and Cross-Cultural Analysis of How Linguistic Labels Reshape "Chaotic" Perception

**Student(s)** **Kelly Chen** **Grade** 7 **Town** Lakeville

**Xinyue Zhang** **Grade** 7 **Town** Lakeville

\* Pfizer Computational Biology and Bioinformatics Awards --- Middle School Finalist - Medallion

**Salisbury** The Hotchkiss School Jennifer Rinehart

3183 Disrupting the Inflammatory-Fibrotic Circuit: Evaluating Galectin-3 Inhibition as a Novel Non-Hormonal Therapy for Adenomyosis

**Student(s)** **Yunting Jin** **Grade** 10 **Town** Lakeville

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

**Salisbury** The Hotchkiss School Jennifer Rinehart

3162 Iron Biofortification in Portulaca oleracea: A Comparative Analysis of Iron Accumulation and Bioavailability in Root, Stem, and Leaf Under Soil and Hydroponic Conditions.

**Student(s)** **Chuyao (Yaoyao) Yuan** **Grade** 11 **Town** Lakeville

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

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

**Shelton** Shelton Intermediate School Rebecca Manzer

1002 Impact of Varying Wavelengths of Light and Controlled Environmental Conditions on the Degredation of Vitamin C Potency in Fruits

**Student(s)** **Aria O'Connor** **Grade** 8 **Town** Shelton

**Anna Campbell** **Grade** 8 **Town** Shelton

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences MS Team- \$100 each & trophy

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

**Simsbury** Westminster School Mike Van Dolah

6513 Multi-Function Submersible for Microplastic Collection and Aquatic Environmental Analysis

**Student(s)** **Muqiao Zong** **Grade** 10 **Town** Simsbury

**Andrew Ma** **Grade** 11 **Town** Simsbury

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

\* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

\* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nautical Research - \$100 Cash for top project that has innovative nautical applications

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

**South Windsor** South Windsor High School Danel Eitel

3095 A Quantitative Evaluation of Microplastic Degradation Using Enzyme Kinetics and Binding Energy

**Student(s)** Rachel Mathew **Grade** 10 **Town** South Windsor

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

**South Windsor** South Windsor High School Danel Eitel

3193 Salt-Eating BioTiles: A Sustainable Solution to Combat Soil Salinity Using Halobacterium

**Student(s)** Prasheeta Mohanty **Grade** 10 **Town** South Windsor

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

**South Windsor** South Windsor High School Danel Eitel

3518 Cyanopanel

**Student(s)** Diva Shajith **Grade** 10 **Town** South Windsor

**Amariah Ysabelle Luci** **Grade** 10 **Town** South Windsor

**Sahasra Natti** **Grade** 10 **Town** South Windsor

\* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
\* 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 Sustainability.  
\* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

**South Windsor** South Windsor High School Minatchy Visvanathan

6061 DOTBot: Diffusion-Aligned Chain-of-Thought Bipedal Humanoid Robot for Interpretable Real-Time Autonomous Navigation, Hazard Mitigation, and Recovery in High-Risk Built Environments

**Student(s)** Karthik Srikumar **Grade** 11 **Town** South Windsor

\* Infosys Foundation Computer Science Awards --- 1st Place High School - \$300, Plaque  
\* Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$300 & plaque and trip to ISEF  
\* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF  
\* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250  
\* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250  
\* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

**Stamford** King School Victoria Schulman

6088 Real-Time Instance Segmentation for Curb and Path Detection in Assistive Wearables for Blind and Low-Vision Assistance

**Student(s)** Olivia Ajayi **Grade** 11 **Town** Stamford

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion  
\* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion  
\* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project

**Stamford** King School Victoria Schulman

6014 A Voice-Controlled Robotic Arm for Assisting Complex Surgical Tasks

**Student(s)** Dillon Maltese **Grade** 12 **Town** Greenwich

\* Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion

**Stamford** King School Victoria Schulman

3146 Effects of Dietary Sugars on Bone Mass and Mechanical Strength

**Student(s)** Max Marti **Grade** 11 **Town** New Canaan

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

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

**Stamford** King School Victoria Schulman

3197 CX3CR1+ Cell Type-Specific ERK Hyperactivation Promotes Inflammatory Remodeling

**Student(s)** Lilah Mehta **Grade** 11 **Town** New Canaan

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

**Stamford** Laurel Springs School Vera Ulanovskaya

6096 Driven By Demand: A Mixed-Integer Linear Programming Framework to Optimize the Efficiency and Quality of Bus Services in Stamford, CT

**Student(s)** Victoria Makarov **Grade** 12 **Town** Stamford

\* Connecticut Science Fair Association Mathematics Awards --- 1st Place High School- \$300 and Plaque  
\* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics

**Stonington** St. Michael School Anna Grossomanides

2007 Sweet Science: How Sugars Fuel Yeast Vs. Humans

**Student(s)** Audrina Chapman Roberts **Grade** 7 **Town** westerly

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 7th grade - CSF Medallion  
\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

**Stratford** St. Mark School Patrick Fallon

2008 The Rust Race

**Student(s)** Arianna Chuco **Grade** 7 **Town** stratford

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 7th grade - CSF Medallion

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken

6056 Development of a Multi-Axis Adaptive Inertia Regulation Exoskeleton System: A Counter-Rotational Gyroframe for Stabilization and Energy Efficiency

**Student(s)** Johnathon Lin **Grade** 10 **Town** Bridgeport

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion  
\* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
\* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF  
\* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken

3120 Optimizing the Mechanical Strength of Mycelium-Based Composites (MBCs) Through Substrate Manipulation

**Student(s)** Madeline Totten **Grade** 11 **Town** Trumbull

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion  
\* University of Hartford 4 Year Scholarship for Excellence in Engineering or Technology, Grade 11 only, \$30,000/year

**Wallingford** Choate Rosemary Hall Talia Dell Angelo

6009 Conics Determined By Triangle Centers In Ceva-Six Configurations

**Student(s)** Benjamin Cha **Grade** 11 **Town** Tenafly

\* Connecticut Science Fair Association Mathematics Awards --- 2nd Place High School- \$200 and Plaque

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

**Wallingford** Choate Rosemary Hall Jan Cook

3111 Innovative Restoration of Coastal Marine Ecosystems: Phage-Based Disease Control and pH Modulation in Connecticut Waters

**Student(s)** Taeyoung Kim **Grade** 10 **Town** Seattle

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

**Wallingford** Choate Rosemary Hall George Gu

6111 NeuroMirror: An Intelligent EEG-Driven Mirror Therapy System Grounded in Hebbian Theory for Post-Stroke Upper-Limb Rehabilitation

**Student(s)** Sabrina Liu **Grade** 10 **Town** Wallingford

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences Senior High Individual - Plaque
- \* Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

**Wallingford** Choate Rosemary Hall Talia Dell Angelo

6531 Harvesting Water from Air: Optimization of a Novel Solar-Powered Atmospheric Water Generator

**Student(s)** Hsiao Chian Tseng **Grade** 11 **Town** Bellevue

Hiyab Mebrahtu **Grade** 11 **Town** Haverford

- \* EnergizeCT Future Sustainability Awards --- 2nd Place High School - \$200 Cash and Plaque
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

**Washington** The Frederick Gunn School Morgen Fisher

3123 Identify NK Cell Global Changes during Breast Cancer Development via Analyzing Single-cell Transcriptomes in Human Breast

**Student(s)** Xuena Zhang **Grade** 11 **Town** Lexington

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

**Waterbury** ACES Chase Academy Anne Pember

5013 Exploring Scent Movement and Diffusion

**Student(s)** Ayanna Aybar **Grade** 7 **Town** Waterbury

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

**Waterbury** ACES Chase Academy Anne pember

3184 Dominant salt marsh species, *Spartina alterniflora* and *Geukensia demissa*, being used to measure the health of a marsh.

**Student(s)** Nina Garcia **Grade** 10 **Town** Waterbury

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

**Waterbury** ACES Chase Academy Anne Pember

1024 From Food Waste to Water Bottles: Testing Avocado (*Persea Americana*) Skins as a Sustainable Material

**Student(s)** Emalyn Lemos **Grade** 7 **Town** Oakville

Camila Ruiz-Ribeiro **Grade** 7 **Town** Waterbury

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

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

**Waterbury** ACES Chase Academy Anne Pember

1017 Galleria Melonella Larvae as Plastic Eaters: Myth or Fact?

**Student(s)** **Mason Mercado** **Grade 7** **Town** Waterbury  
**Jason Deo** **Grade 7** **Town** Waterbury

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Waterbury** ACES Chase Academy Anne Pember

6022 Using chitin and chitin-based derivatives to remove and remediate nitrates.

**Student(s)** **Kathryn Thibeault** **Grade 9** **Town** Waterbury

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

\* Arthur & Ruth Mensing Award --- Mensing Award Excellence in the High School Physical Sciences - \$500

**Watertown** The Taft School Amanda Benedict

3179 Investigating the Neuroprotective and Stress-Modulating Effects of Oxytocin on Human Cells under Cortisol-Induced Stress Conditions

**Student(s)** **Esther Lee** **Grade 10** **Town** Watertown

\* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

\* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

**Watertown** The Taft School Amanda Benedict

3521 Finding a New Class of Inhibitors for IL-1 $\beta$  (interleukin-1 beta) Towards the Cure of Age Related Macular Degeneration

**Student(s)** **Jonathan So** **Grade 11** **Town** Watertown

**Jamie Ho** **Grade 11** **Town** Lawrence Township

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

**Watertown** The Taft School Anton Antonov

6099 Neural A\*: Learning-Guided, Bounded-Optimal Path Planning for Cluttered Maps

**Student(s)** **Andreas Tsang** **Grade 10** **Town** Watertown

\* Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion

**Watertown** The Taft School Amanda Benedict

6070 A Novel Equestrian Virtual Reality-Based Coordination Rehabilitation System for Post-Stroke Motor Recovery

**Student(s)** **Mily Xue** **Grade 10** **Town** Watertown

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

\* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

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

\* Anonymous Friends of the Fair Family Awards --- 2nd place - \$150 - For Excellence in Engineering High School

**West Hartford** Kingswood Oxford Ashkan Novin

3178 A Multi-Modal AI/ML Platform for Neurodegenerative Risk Prediction: Integrating Epigenetic Signatures through cfDNA Methylation and Functional Mobility Data

**Student(s)** **Rhea Doshi** **Grade 10** **Town** Farmington

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences Senior High- \$500 & Plaque

\* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - \$300, Plaque

\* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg

\* Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$500 & plaque

[SchTown] [School] [Teacher]  
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**West Haven** Notre Dame High School Omar Espinosa

3107 Decoding Adhesion Proteins: Computational Insights for Smarter Brain-on-a-Chip Interfaces

**Student(s)** Siddarth Kothandam **Grade** 11 **Town** Hamden

\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

**Weston** Weston High School Stacey Greenberg

6507 Prometheus: Discovering Novel Quantum Critical Phenomena in Disordered Systems Using Unsupervised Deep Learning

**Student(s)** Brandon Yee **Grade** 12 **Town** Weston

Maximilian Rutkowski **Grade** 12 **Town** Weston

Wilson Collins **Grade** 12 **Town** Weston

\* Infosys Foundation Computer Science Awards --- 3rd Place High School- \$100, Plaque

**Westport** Greens Farms Academy Mathieu Freeman

6062 A Novel Proposal for the Implementation of Microreactors & Conveyor Systems into the Transportation Phase of Mining to Eliminate Rock Truck CO<sub>2</sub> Emissions

**Student(s)** Cannon Anderson **Grade** 12 **Town** weston

\* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion

**Westport** Greens Farms Academy Mathieu Freeman

3080 Comparative Efficacy of Intravenous vs. Intraosseous Tranexamic Acid in Simulated Hemorrhage and Warfarin-Altered Clotting

**Student(s)** Dylan Karpf **Grade** 9 **Town** Westport

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

**Westport** Greens Farms Academy Mathieu Freeman

6109 Open Alert: A Novel Alert System For School Safety

**Student(s)** Benjamin Kiev **Grade** 9 **Town** Westport

\* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

\* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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

\* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

**Westport** Greens Farms Academy Juli Gerdes

3192 How Climate Change's Alteration to the Protein Composition in Aedes aegypti Food Source Impacts Their Life History Traits

**Student(s)** Lolade Oshin **Grade** 12 **Town** West Haven

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

**Westport** Greens Farms Academy Mathieu Freeman

6044 Developing a Methodology to Predict Flash Flooding in Southwestern Connecticut Using Historic Flood Events and Weather Data

**Student(s)** Oliver Rohrbasser **Grade** 12 **Town** Wilton

\* Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion

\* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics

\* Geology/Historic Project of Merit Award --- \$100 - Earth Science - Field work with Geologic or historic value

**Westport** Staples High School Amy Parent

6023 Optimizing Fin Design for a Mars-Launched Rocket Using Open-Source Simulation

**Student(s)** Anit Arvind **Grade** 11 **Town** Westport

\* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

[SchTown] [School] [Teacher]  
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**Westport** Staples High School Amy Parent

6025 Evaluation of the Therapeutic Potential of Curcumin in Improving Motor Neuron Health in Spinal Muscular Atrophy

**Student(s)** Sofia DiLeo **Grade 12** **Town** Westport

- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$100 / plaque
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - \$100 Cash

**Westport** Staples High School Amy Parent

3039 Effect of Coenzyme Q10 and Epigallocatechin Gallate on Alpha-Synuclein Aggregation in Caenorhabditis elegans to Treat Parkinson's Disease

**Student(s)** Leah Dombrow **Grade 11** **Town** Westport

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

**Westport** Staples High School Amy Parent

3013 The Mechanisms Underlying the Mitigating Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy in C. elegans

**Student(s)** Nolan Francis **Grade 12** **Town** Westport

- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

**Westport** Staples High School Amy Parent

3139 Discovering Novel Targets for the FMN Riboswitch to Test the Utility of Computational RNA-folding Methods to Address Multidrug Antibiotic Resistance

**Student(s)** Jay Hari **Grade 12** **Town** Westport

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

**Westport** Staples High School Amy Parent

3186 Comparing deep learning architectures with multispectral imaging for early detection of Black Cutworms on Bush Beans

**Student(s)** Ezra Schwartz **Grade 12** **Town** Westport

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* J.A. Augustine and H. Glista Awards --- \$100 H. Glista Award for Life Sciences

**Westport** Staples High School Amy Parent

3063 Can Your Diet Protect Against Microplastics? Discovering the Impact of Probiotic E. coli Strains on Microplastic-Induced Toxicity in C. elegans

**Student(s)** Sienna Schwartz **Grade 11** **Town** Westport

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

**Wilton** Middlebrook School Nancy Wakeham

4012 Green Walls: The Power of Plant-Based Materials for Home Cooling

**Student(s)** Wesley Marley **Grade 7** **Town** Wilton

Arrin Suri **Grade 7** **Town** Wilton

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy

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

**Wilton** Middlebrook School Jessica Garcia

5514 Treat Them Proteins! Using Technology to Help Damaged Enzymes

**Student(s)** **Tanush Nareddy** **Grade 8** **Town** Wilton

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Wilton** Middlebrook School Janica Bagosy

2519 Smart Bandages for Dogs,

**Student(s)** **Owen O'Dea** **Grade 8** **Town** Wilton

- \* Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion

**Wilton** Middlebrook School Leah Pariso

4002 Dual Axis Automatic Solar Tracker

**Student(s)** **Aarya Patel** **Grade 7** **Town** Wilton

**Aaryan Patel** **Grade 7** **Town** Wilton

- \* EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$200 Cash and Trophy
- \* EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$150 Cash and Trophy
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF 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
- \* Jon Chapis Memorial Award --- Jon Chapis Spirit of Innovation Award - MS \$100
- \* Dreams Unlimited Award --- \$150 cash award and certificate

**Wilton** Middlebrook School Jessica Garcia

5519 How Microplastics in Water Affects Cymatics

**Student(s)** **Jiya Praveen** **Grade 8** **Town** Wilton

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- \* Connecticut Science Supervisors Association --- \$175 for a middle school project
- \* Aquarion Water Company --- 1st. \$200.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

**Wilton** Middlebrook School Allison Norful

1031 Human Versus Machine: Can Two Kids and a Quantum Computer Beat a "Magic: The Gathering" Professional?

**Student(s)** **Avery Schay** **Grade 7** **Town** Wilton

**Jack Richardson** **Grade 7** **Town** Wilton

- \* Connecticut Science Fair Association Mathematics Awards --- 1st Place Middle School- \$200 and Plaque

**Wilton** Middlebrook School Janica Bagosy

5525 Smart Plant Care: Using Automation and AI

**Student(s)** **Pratap Sharma** **Grade 8** **Town** Wilton

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy
- \* Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- \* Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by ONR

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

**Wilton** Wilton High School Nomita Ramchandani

6026 OleoFoam: A Magnetically Controlled Oleophilic Foam for Targeted Oil Absorption

**Student(s)** Arav Gupta **Grade** 10 **Town** Wilton

- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences

**Wilton** Wilton High School Matthew Hoyt

6087 Improving Space Weather Forecasting Through Multivariate Machine Learning Analysis for SPE (Solar Particle Event) Prediction.

**Student(s)** Ishanvi Jaiswal **Grade** 11 **Town** Wilton

- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Astronomical Society of Greater Hartford - The Charles Hammond for Excellence in Astronomy Award --- Senior Honorable Mention Project-\$500, subscription to Sky and Telescope, ASGH membership and meeting invitation

**Windsor** Academy of Aerospace & Engineering Konda Chevva

6101 FAB-HEX : Fractal Shaped Additive and Bio-inspired Heat Exchanger

**Student(s)** Aarav Chevva **Grade** 10 **Town** Ellington

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Individual - \$200 & Plaque

**Windsor** Academy of Aerospace & Engineering Lili Aramli

3160 The Investigation of Pro-Inflammatory Immune Cells Triggered By Exercise and Their Effect On Reproductive Cancer Tumor Models

**Student(s)** Ana-Marlene Davis **Grade** 9 **Town** Broad Brook

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

**Windsor** Academy of Aerospace & Engineering Joshua Madore

6093 Optimizing the Efficiency of Solar Cells using Enhanced Cooling Techniques.

**Student(s)** Palaniappan Manikandan **Grade** 10 **Town** Ellington

- \* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place High School - \$200 Cash and Plaque
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* 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.

**Windsor** Academy of Aerospace & Engineering Lili Aramli

6107 Next-Generation Interplanetary Rovers: Embedded Neuromorphic Artificial Intelligence Control For Autonomous & Adaptive Terrain Exploration

**Student(s)** Rithvik Suren **Grade** 10 **Town** Ellington

- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

**Windsor** Madina Academy Jemilat Salami-Oyenuga

1012 Photoprotection of yeast, fact or fiction: Studying the effect of Ultraviolet ray C on the proliferation of Saccharomyces Cerevisiae via analysis in vitro cultivation

**Student(s)** Salma Hassan **Grade** 8 **Town** Avon  
Tajriyan Khan **Grade** 8 **Town** Agawam  
Sohyla Hassan **Grade** 8 **Town** Avon

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences MS Team- \$150 each & trophy

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**Windsor** Madina Academy Jemilat Salami-Oyenuga

1019 Restoring Dead-Zones: The Role of High-Oxygen-Producing Vegetation in Assisting to Reduce Aquatic Hypoxia

**Student(s)** **Enaaya Mohammed** **Grade 8** **Town** Windsor  
**Nabaad Abdulkadir** **Grade 8** **Town** Plantsville  
**Musfira Bhuiyan** **Grade 8** **Town** Windsor

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$200 Cash and Trophy

**Windsor** The Loomis Chaffee School Fahmeed Sheehan

6027 Continual Learning with Elastic Weight Consolidation for Human Tree Person Test Frameworks

**Student(s)** **Ria Sunwoo An** **Grade 11** **Town** Windsor

- \* Infosys Foundation Computer Science Awards --- 2nd Place High School - \$200, Plaque
- \* J.A. Augustine and H. Glista Awards --- \$100 H. Glista Award for Physical Sciences

**Windsor** The Loomis Chaffee School Fahmeed Sheehan

3051 Next-Generation E-Skin for Real-Time Monitoring to Prevent Livestock Disease Outbreak

**Student(s)** **Hyeonho Kim** **Grade 10** **Town** Windsor

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5th Place- Life Sciences Senior High- Plaque

**Windsor** The Loomis Chaffee School Fahmeed Sheehan

6122 LISTEN – A Robotic Leak Identification System using TDNN and ENhanced Acoustic Features for Pipeline Detection

**Student(s)** **Jiaxuan Li** **Grade 11** **Town** Cupertino

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High

**Windsor** The Loomis Chaffee School Zhaoyang Huang

3071 HTT-HDAC Axis links Major Depressive Disorder and Alzheimer's Disease: A Transformer-Based Multi-Omics Dissection

**Student(s)** **Yuechen Wang** **Grade 10** **Town** Windsor

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

**Windsor** The Loomis Chaffee School Fahmeed Sheehan

3019 Can Dead Bacteria Clean Up Our Gardens? Using EPS-Rich Biomass and Biochar to Lower Soil Lead Below 200 ppm

**Student(s)** **Li-An Ye** **Grade 9** **Town** San Jose

- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$300 / plaque
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

**Woodbridge** Amity Regional High School Sarah Reeves

6058 Designing a Hybrid Ultrasound and Ambient RF Wireless Charging System for a Pacemaker While Minimizing Misalignment Loss

**Student(s)** **Karishma Balamurugan** **Grade 11** **Town** Orange

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

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**Woodbridge** Amity Regional High School Sarah Reeves

3198 Developing a Predictive App for Water Quality: Modeling E. Coli Quantification Through Spatiotemporal Variables

**Student(s)** **Chloe Chang** **Grade** 11 **Town** Orange

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* Society for In Vitro Biology --- 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 Senior
- University of Connecticut Academic Excellence Scholarship to a Rising Senior (amount undefined)

**Woodbridge** Amity Regional High School Sarah Reeves

3180 Determining the Accuracy of Biomarker TNF- $\alpha$  in Predicting Ketamine Treatment Outcomes for Veterans with PTSD & MDD

**Student(s)** **Mila Mejnartowicz** **Grade** 12 **Town** Woodbridge

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

**Woodbridge** Amity Regional High School Lindsay McCarthy

6012 Developing a Bio-Hybrid Luminescent Solar Concentrator Using Carbon Quantum Dots, Natural Fluorophores, and Kaolin Powder for Enhanced Solar Energy Harvesting

**Student(s)** **Aryan Shrivastav** **Grade** 11 **Town** Orange

- \* EnergizeCT Alternative & Renewable Energy Awards --- 1st Place High School - \$300 Cash and Plaque
- \* EnergizeCT Future Sustainability Awards --- 3rd Place High School - \$100 Cash and Plaque
- \* Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
- \* Jon Chaptis Memorial Award --- Jon Chaptis Spirit of Innovation Award - HS \$200

**Woodbridge** Amity Regional High School Lindsay McCarthy

3127 Investigating the Impact of BRCA1/2 Co-Expression Gene Silencing on Chemotherapy Efficacy in Ovarian Cancer

**Student(s)** **Charlotte Stannard** **Grade** 12 **Town** Bethany

- \* 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

**Woodbridge** Amity Regional High School Lindsay McCarthy

3137 In Vitro Assessment of Lactase Production Activity, Efficiency, and Survivability of *L. acidophilus* in Non-Dairy Carriers

**Student(s)** **Mingze Weng** **Grade** 12 **Town** Orange

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences Senior High- \$200 & Plaque

**Woodbridge** CT-STEM Foundation Sarah Reeves

3171 Investigating the Impact of Governance Effectiveness on Economic Crisis Resilience: A Fixed-Effects Analysis of G-20 Countries During the Great Recession and COVID-19

**Student(s)** **David Babic** **Grade** 10 **Town** Woodbridge

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

**Woodbridge** CT-STEM Foundation Christine Leventhal

3153 Classification of Migraine Subtypes Using Machine Learning: A Study of Data Bias

**Student(s)** **Kehara Morton** **Grade** 12 **Town** Darien

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