



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 2 - 14, 2026

### Winning Projects

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

#### Awards Legend

Honors = 1st, 2nd, or 3rd honors  
(Projects with 1st honors are Finalists in Life or Physical Science)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Avon** Avon High School John Salerni

3119	LS	2	Hyper-Activated Interferon Pathways in Asthmatic B Cells Contribute to Exaggerated Immune Response
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**Student(s)** Aarika Bhava **Grade** 11 **Town** Avon

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

**Avon** Avon High School John Salerni

3085	LS	2	Automated Detection of Pulmonary Nodules in Computed Tomography Scans Using Deep Learning to Reduce Radiologist Workload
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**Student(s)** Nathaniel Lee **Grade** 11 **Town** Avon

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

**Avon** Avon High School John Salerni

3172	LS	3	Integrating Copy Number Alterations and Transcriptomics with Machine Learning Improves Survival Prediction in HPV-negative Head and Neck Cancer
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**Student(s)** Vishnu Mukku **Grade** 11 **Town** Avon

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

**Avon** Avon High School John Salerni

3076	LS	1	Static and Dynamic Functional Connectivity Within and Cross Reading and Default Mode Networks in Children Varying in Family Risk for Dyslexia and Reading
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**Student(s)** Mridhulaa Rajagopal **Grade** 12 **Town** Avon

\* 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	PS	3	Adaptive Machine Learning-Driven Waste Management System
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**Student(s)** Karthikeyen Suresh Nagan **Grade** 10 **Town** Avon

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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Avon** Talcott Mountain Science Center Kaitlyn Roberts

5003	P7	1	Engineering A Durable Algae-Argonite Alkalinity System To Reduce CO2 Driven Ocean Acidification and Enhance Biological Resilience In Coastal Marine Ecosystems
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**Student(s)** Raji Doshi **Grade 7** **Town** Farmington

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place MS- \$100, Trophy
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior
- \* Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering - Middle School
- \* Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash MS

**Avon** Talcott Mountain Science Center Brigette Zacharczenko

2005	L7	1	Sensory Triggers of Defensive Behavior in Manduca seat
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**Student(s)** Sheldon Hsiao **Grade 7** **Town** Farmington

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 7th grade- \$200 & trophy
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy

**Avon** Talcott Mountain Science Center Brigette Zacharczenko

2001	L7	1	Operation Brine Shrimp: Optimizing Life Conditions
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**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	L8	3	A Cognitive Analysis of Social Media Engagement and Multitasking Behaviors in Adult Attention and Focus Endurance
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**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	PS	3	The Effect of Hydroxyapatite Concentration Within Dentistry Composite Resin on the Wear, Acidic Erosion, and Discoloration on a Synthetic Tooth.
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**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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Bethel</b>	Bethel High School	Ray Turek	6003	PS	2	Fleet for Localized Atmospheric Research and Environmental Surveillance (FLARES): Autonomous drones and machine learning working for a cleaner environment.		
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**Student(s)** Toshan Bhattacharya **Grade** 11 **Town** Bethel

- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* University of New Haven Scholarship Awards --- \$120,000, 4 year scholarship (\$30,000 per year) to University of New Haven for exemplary 11th grade project
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

<b>Bethel</b>	Bethel High School	Raymond Turek	3089	LS	2	Microplastics vs. Bioplastics: Comparative Effects on Seed Germination and Early Plant Growth		
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**Student(s)** Kady Cibery **Grade** 12 **Town** Bethel

<b>Bethel</b>	Bethel High School	Ray Turek	6029	PS	2	A Multiscale Evolutionary Simulation and Machine Learning Framework to Predict Immunotherapy Failure from Tumor-Immune Interaction Dynamics		
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**Student(s)** Srirama Desiraju **Grade** 12 **Town** Bethel

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

<b>Bethel</b>	Bethel High School	Raymond Turek	3065	LS	3	How Different Suturing Techniques and Materials Impact the Effectiveness of the Suture, Measured by Wound Strength, Aesthetics and Infection, When Experimenting with Banana Peels?		
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**Student(s)** Emma Doyle **Grade** 12 **Town** Bethel

<b>Bethel</b>	Bethel High School	Raymond Turek	3102	LS	2	Sustainable Induction of Medicinal Phytochemicals: The Effects of Low Intensity Stress on Phytochemical Yield in Basil		
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**Student(s)** Gabriela Greenstein **Grade** 12 **Town** Bethel

<b>Bethel</b>	Bethel High School	Raymond Turek	3048	LS	2	Differences in Memory Retention Between Real Images and Artificially Generated Images.		
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**Student(s)** Brianna Jack **Grade** 12 **Town** BETHEL

<b>Bethel</b>	Bethel High School	Ray Turek	3534	LST	1	Wavelet-Based Multiscale Anisotropy-Aware Cell-Cell Communication Inference and Niche Segmentation		
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**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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bozrah** Fields Memorial School Joshua Fish  
 1003 LT 1 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

**Bridgeport** Black Rock School Elizabeth Moran  
 5010 P7 1 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 P8 3 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  
 6067 PS 2 Utilizing Organic Byproducts Within the Internal Arrangement of Concrete to Enhance the Dimension Stability and Durability of Porous Concrete

**Student(s)** Emily Barnhart **Grade 12** **Town** Monroe

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6075 PS 1 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 Kirk Shadle  
 6059 PS 2 Development of a Crustacean  $\beta$ -chitin Biopolymer With Improved Functional Stability and Enhanced Decomposition

**Student(s)** Campbell Cohen **Grade 12** **Town** Fairfield

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner  
 3191 LS 3 Do Lobsters prefer foods with Astaxanthin? Investigating dietary choices in Homerus Americans.  
**Student(s)** Joseph DeSabia **Grade** 10 **Town** Fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner  
 3199 LS 3 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** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6032 PS 2 Development of a Dipole PVDF Film Pyroelectric Generator utilizing Process Waste Heat  
**Student(s)** Aiden Reyes **Grade** 12 **Town** Trumbull

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner  
 3510 LST 2 How Light Color Influences Agar Production in Gracilalia tikvahiae.  
**Student(s)** Cherelle Ricketts **Grade** 10 **Town** Bridgeport  
 Joshua Ball **Grade** 11 **Town** Bridgeport

\* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3050 LS 2 Utilizing Vibrio natriegens for Sequestration of Heavy Metals to Promote Aquatic  
**Student(s)** Max Saunders **Grade** 12 **Town** Fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3090 LS 2 Enhancing Lactobacillus Acidophilus. Molecular Responses with Hydroxyapatite to Stimulate Tooth Enamel Regeneration.  
**Student(s)** Sofia Youssefi **Grade** 12 **Town** Trumbull

**Bridgeport** Central Magnet High School Caitlin Wall  
 3504 LST 3 How Eyewitness Testimony and Hair Analysis Contribute to Crime Scene Investigation within Forensic Science  
**Student(s)** Senavene Wilson **Grade** 12 **Town** Bridgeport  
 Mia Martinez **Grade** 12 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Aerospace Marissa Barreto  
 6509 PST 2 SeatPal - Vehiculaar Heatstroke Prevention Device  
**Student(s)** Geaon Sohn **Grade** 12 **Town** Bridgeport  
 Maya Sawaki **Grade** 12 **Town** Bridgeport

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bridgeport** Fairchild Wheeler Aerospace Marissa Barreto  
 3150 LS 3 Unlocking Neurodivergent Focus Skills  
**Student(s)** **Becky Veliz Ruiz** **Grade 9** **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Biotech Tara Liskov  
 3515 LST 1 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 LS 3 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

**Bridgeport** Fairchild Wheeler Biotech Lucien Bouffard  
 3109 LS 1 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 Beres  
 1022 LT 3 More Than Just Water  
**Student(s)** **Gabriella Dickson** **Grade 7** **Town** Bridgeport  
**Catherine Sather** **Grade 7** **Town** Trumbull

**Bridgeport** Interdistrict Discovery Magnet School Susan Berez  
 2002 L7 1 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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Bridgeport** IT & Software Engineering High School Ricki Chiem

6510	PST	1	How Effectively Can AI Classify Waste?					
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<b>Student(s)</b>	<b>Alan Brewster</b>	<b>Grade 10</b>	<b>Town</b>	Milford
	<b>Mikayla Larbi</b>	<b>Grade 10</b>	<b>Town</b>	Bridgeport
	<b>Brandon Granados Pastora</b>	<b>Grade 10</b>	<b>Town</b>	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	PS	2	Designing Metalloid bags to help reduce static buildup in powders					
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<b>Student(s)</b>	<b>Ayden Gamble</b>	<b>Grade 11</b>	<b>Town</b>	Bridgeport
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- \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place High School - Plaque, Medallion
- \* University of Hartford Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Engineering or Technology, Grade 11 only - \$120,000 (\$30,000/year)

**Bridgeport** John Winthrop School Srilakshmi Kongani

5510	P8	3	Insulation Investigation					
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<b>Student(s)</b>	<b>Lavinya Baence</b>	<b>Grade 8</b>	<b>Town</b>	Bridgeport
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- \* 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	P8	2	The War of Energy Efficiency					
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<b>Student(s)</b>	<b>Anthony Gomes</b>	<b>Grade 8</b>	<b>Town</b>	Bridgeport
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- \* 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	P7	1	Catalase's pH sweet spot					
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<b>Student(s)</b>	<b>Jacob Lin</b>	<b>Grade 7</b>	<b>Town</b>	Bridgeport
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- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 7th Grade Ind. - trophy

**Bridgeport** Luis Munoz Marin School Allison Kovac

4015	PT	3	Cardboard Hydraulic Claw: A Syringe-Driven Hydraulic Grabbing Device					
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<b>Student(s)</b>	<b>Sofia Santos</b>	<b>Grade 7</b>	<b>Town</b>	Bridgeport
	<b>Julissa Jaimes</b>	<b>Grade 7</b>	<b>Town</b>	Bridgeport

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bridgeport** Multicultural Magnet School Corina Starn

4006 PT 1 SMART CANE

**Student(s)** Erick Aquino **Grade 8** **Town** Bridgeport  
 Dhauid 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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* 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** Read School Trisha Bartholomew

5509 P8 3 How Does Air Flow Around Different Shape of Cars?

**Student(s)** Aaron Samaroo **Grade 8** **Town** bridgeport

- \* U.S. Air Force --- Certificate & USAF Merchandise Package

**Bridgeport** Warren Harding High School Shelton Neale

3117 LS 1 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

**Bridgeport** Warren Harding High School Dionne Cross

3073 LS 3 Which Surface in the Lab has the Most Microbes that Could Cause Bread to Spoil.

**Student(s)** Johannes Quezada **Grade 9** **Town** Bridgeport

**Bridgeport** Warren Harding High School Dionne Cross

6524 PST 3 Robotic Arm

**Student(s)** Daiany Velasquez **Grade 9** **Town** Bridgeport  
 Juliette Medina-Calderon **Grade 9** **Town** Bridgeport

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Cheshire** Cheshire High School Julie Barker  
 6030 PS 1 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
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - HS Student in Computing
- \* Anonymous Friends of the Fair Family Awards --- 1st place - \$250 - For Excellence in Engineering High School

**Cheshire** Cheshire High School Julie Barker  
 3142 LS 2 How do different compressible clothing items affect the balance of a person with Hyper-mobile Ehlers-Danlos syndrome?

**Student(s)** Bella Solimine **Grade** 10 **Town** Cheshire

**Cheshire** Cheshire High School Julie Barker  
 3522 LST 2 Phytoplankton Adaptation to Ocean Acidification

**Student(s)** Neha Tatikonda **Grade** 11 **Town** Cheshire  
 Emily Junaedi **Grade** 11 **Town** Cheshire

**Danbury** Saint Joseph School Kathleen Spina  
 2004 L7 1 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  
 2513 L8 2 To Drink or Not To Drink: How clean is your water?

**Student(s)** Christopher Caputo **Grade** 8 **Town** danbury

- \* Aquarion Water Company --- 3rd. \$100.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

**Danbury** Saint Joseph School Kathleen Spina  
 2506 L8 2 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 L7 1 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Danbury** St. Gregory the Great School Christine Fahey  
 5511 P8 3 Pennies for Luck or Poison for Ponds  
**Student(s) Dheer Bhavsar** **Grade 8** **Town** Danbury

**Danbury** St. Gregory the Great School Christine Fahey  
 1011 LT 2 Grounds for Growth  
**Student(s) Kristen Lazzara** **Grade 7** **Town** Brookfield  
**Moira McKinney** **Grade 7** **Town** Danbury

**Danbury** St. Gregory the Great School Christine Fahey  
 5011 P7 1 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

**Danbury** St. Gregory the Great School Christine Fahey  
 1005 LT 1 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 L8 1 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 PT 2 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Danbury** Westside Middle School Academy Nancy Barlow

1006	LT	2	The Effect of Acid Rain on Plants Around the World					
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<b>Student(s)</b>	<b>Brooke Cyphers</b>	<b>Grade 7</b>	<b>Town</b>	Danbury
	<b>Margo Anderson</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
- \* 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	LT	1	The Effect of Different Music Genres on Time it Takes Ants to Travel					
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<b>Student(s)</b>	<b>Zahir Guaman</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Jhon Ramirez</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Frandell Olea</b>	<b>Grade 8</b>	<b>Town</b>	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

**Danbury** Westside Middle School Academy Nancy Barlow

4009	PT	1	What is the Affect of Wing Design on the Speed a Model Plane Flies?					
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<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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* 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	LT	3	How Do Organisms Affect The Rate Off Food Decomposition?					
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<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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Danbury** Westside Middle School Academy Nancy Barlow

4005	PT	1	Can You Detect Muons and Cosmic Rays Using Household Materials? How do Coronal Mass Ejections affect the number of muons and cosmic rays detected?					
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<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	LT	2	Keeping It Cool & Damp					
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<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	PT	2	The Effect of Electrolyte Concentration on the Voltage Produced by a Baghdad Battery					
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<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

**Danbury** Westside Middle School Academy Nancy Barlow

4017	PT	1	The Effect of Phone Case Materials on EMF Radiation from an iPhone Under Various Scenarios.					
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<b>Student(s)</b>	<b>Gowtham Vallinayagam</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Edward Sola</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Rafael Barreto</b>	<b>Grade 8</b>	<b>Town</b>	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, Trophy, Medallion & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- \* The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Danbury** Westside Middle School Academy Nancy Barlow

1013	LT	1	How can we use phytoremediation to extract different heavy metals out of soil?					
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<b>Student(s)</b>	Rhea Yadav	<b>Grade</b>	8	<b>Town</b>	Danbury
	Aanya Popuri	<b>Grade</b>	8	<b>Town</b>	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

**Danbury** Wooster School Parvin Taraz

3106	LS	2	A Multiscale Wavelet Transform Approach to Spatial Gene Expression in Breast Cancer					
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<b>Student(s)</b>	Gabriel Mayorga	<b>Grade</b>	9	<b>Town</b>	Danbury
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**Darien** Darien High School Christine Leventhal

6043	PS	3	Evaluating Fluorine-to-Hydrogen Substitution in PFOS to Predict Safer Variants					
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<b>Student(s)</b>	Ananyasri Baranidharan	<b>Grade</b>	11	<b>Town</b>	Darien
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**Darien** Darien High School David Lewis

3087	LS	2	Analysis of Approval-Based Committee Voting Methods using Real-World Ballot Data					
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<b>Student(s)</b>	Ian Bozzuto	<b>Grade</b>	12	<b>Town</b>	Darien
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**Darien** Darien High School Guy Pratt

3200	LS	3	The effects of psychiatric service dogs on veterans with PTSD and co-occurring mental health disorders: A Meta-Analysis					
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<b>Student(s)</b>	Anastasia Buchesky	<b>Grade</b>	12	<b>Town</b>	Darien
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- \* American Psychological Association --- Certificate, \$25 gift card given by CSEF

**Darien** Darien High School David Lewis

6085	PS	2	Functionalizing DNA Nanotechnology: Optimizing the Impact of Buffer Conditions on Chemical Ligation					
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<b>Student(s)</b>	Claire Chan	<b>Grade</b>	12	<b>Town</b>	Darien
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- \* 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 Guy Pratt

3032	LS	2	The CpG Overlap between Alzheimer's and Bipolar Disorder in the Cerebellum of Homo sapiens					
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<b>Student(s)</b>	Avery Hanson	<b>Grade</b>	11	<b>Town</b>	Darien
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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Darien</b>	Darien High School	Ayman Reffai	3169	LS	2	Explanatory machine learning modeling of a seven-molecular marker panel for immune checkpoint inhibition response per RECIST v1.1 in metastatic urothelial carcinoma		
			<b>Student(s)</b>		<b>Matthew Li</b>	<b>Grade</b> 12		<b>Town</b> Darien
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion								
<b>Darien</b>	Darien High School	Guy Pratt	3195	LS	3	Effect of Access to Healthcare on Stage at Diagnosis and Treatment Outcomes for Carcinoma Skin Cancer		
			<b>Student(s)</b>		<b>Kate Massey</b>	<b>Grade</b> 12		<b>Town</b> Darien
<b>Darien</b>	Darien High School	Guy Pratt	3045	LS	2	The Effectiveness of Physical Therapy Camp Interventions on Motor Function in Children with Cerebral Palsy		
			<b>Student(s)</b>		<b>Ava Mohr</b>	<b>Grade</b> 12		<b>Town</b> Darien
<b>Darien</b>	Darien High School	David Lewis	6091	PS	3	Post-Robbing Behavioral Shifts in Native and Invasive Bees		
			<b>Student(s)</b>		<b>Stella Nehro</b>	<b>Grade</b> 12		<b>Town</b> Darien
* Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash								
<b>Darien</b>	Darien High School	Guy Pratt	3049	LS	2	Association Between Short-Term Sleep Deprivation and Cognitive Performance: Inhibitory Control, Problem Solving, Working Memory, and Divergent Thinking		
			<b>Student(s)</b>		<b>Taylor Platt</b>	<b>Grade</b> 12		<b>Town</b> Darien, CT
<b>Darien</b>	Darien High School	David Lewis	3128	LS	2	Analyzing the Impact of Weight Cutting upon Head Trauma Recieved in Mixed Martial Arts Bouts		
			<b>Student(s)</b>		<b>Flynn Sullivan</b>	<b>Grade</b> 12		<b>Town</b> Darien
<b>East Hartford</b>	Connecticut IB Academy	Francis Ferrall	6008	PS	3	A Graphene Oxide-Enhanced Biochar System for PFAS Filtration and Mineralization		
			<b>Student(s)</b>		<b>Kwabena Addai-Boateng</b>	<b>Grade</b> 9		<b>Town</b> East Hartford
<b>East Lyme</b>	East Lyme High School	Cecilia Prytko	3182	LS	2	Baby Connect: A haptic solution for deaf parents		
			<b>Student(s)</b>		<b>Sashrika Das</b>	<b>Grade</b> 10		<b>Town</b> East Lyme
* Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist								

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**East Lyme** East Lyme High School Jian Li  
 3006 LS 1 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 L8 3 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

**Ellington** Ellington High School James Manger  
 6110 PS 3 Development of Versatile Metal Casting Molds for Low Melting Temperature Metals Via the Use of Compliant Mechanisms

**Student(s)** Thomas Gerlach **Grade** 11 **Town** Ellington

**Fairfield** Fairfield Warde Ryan Gleason  
 3523 LST 2 The effect of rising sea levels on the germination and survival of Lathyrus Japonicus (beach pea)

**Student(s)** Calista Gleason **Grade** 11 **Town** Fairfield

Emma Speicher **Grade** 11 **Town** Fairfield

**Farmington** Farmington High School Alexandra Raymunt  
 6525 PST 2 AI Driven Tax Calculator that calculates taxes END to END

**Student(s)** Aman Arun **Grade** 10 **Town** Farmington

Arush Ghosh **Grade** 10 **Town** Farmington

**Farmington** Farmington High School Alexandra Raymunt  
 6535 PST 1 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

**Farmington** Farmington High School Alexandra Raymunt  
 3069 LS 1 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Farmington** Farmington High School Alexandra Raymunt  
 6037 PS 3 SAVI: A Self-Autonomous Vehicle Intelligence Framework for Future Adaptive Learning in Autonomous Vehicles  
**Student(s)** Yash Chandrasekaran **Grade** 9 **Town** Unionville

**Farmington** Farmington High School Alexandra Raymunt  
 6505 PST 2 Saving Artist's Money : Using a vacuum pump to recycle contaminated Turpenoid  
**Student(s)** Sophia Jiang **Grade** 11 **Town** Farmington  
 Yiquan Li-Zhou **Grade** 11 **Town** Farmington

**Farmington** Farmington High School Alexandra Raymunt  
 3055 LS 2 XAI-SHAP for Personalized Eczema Risk: Quantifying Feature Importance of Hyper-Local Environmental Pollutants  
**Student(s)** Samanyu Kasinadhuni **Grade** 10 **Town** Farmington

**Farmington** Farmington High School Alexandra Raymunt  
 6520 PST 1 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  
 3501 LST 2 Predicting Peak Cognitive Performance in Teens Using Chronotype and Machine Learning  
**Student(s)** Arjun Mishra **Grade** 10 **Town** Farmington  
 Steven Sadlowski **Grade** 10 **Town** Unionville

**Farmington** Farmington High School Alexandra Raymunt  
 6515 PST 2 Evaluating Biodegradable Polymers for Aerospace Applications: Mechanical, Thermal, and Environmental Performance  
**Student(s)** Sudeep Nelakudity **Grade** 10 **Town** Farmington  
 Sankarsh Maddala **Grade** 10 **Town** Farmington

**Farmington** Farmington High School Alexandra Raymunt  
 3157 LS 3 The Key to the Door of Studying  
**Student(s)** Krish Rajkumar **Grade** 9 **Town** Unionville

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Farmington** Farmington High School Alexandra Raymunt  
 3188 LS 1 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

**Farmington** Farmington High School Alexandra Raymunt  
 3527 LST 2 Development and Evaluation of an Offline Medical Question-Answering System Using Local Large-Language-Model Inference

**Student(s)** Monish Chowdary Thalapaneni **Grade** 11 **Town** Farmington  
 Ashrava Tiwari **Grade** 11 **Town** Farmington  
 Shreysht Rajesh **Grade** 11 **Town** Farmington

**Farmington** Miss Porter's School Christine Scanlon  
 3138 LS 3 How Cooking Affects Antioxidant Levels in Cauliflower and Their Role in Cancer Prevention

**Student(s)** Olivia Cheon **Grade** 11 **Town** Seoul

\* Institute of Food Technologists, Nutmeg Section --- \$200 award + invitation to Awards Night Dinner with guest

**Farmington** Miss Porter's School Christine Scanlon  
 6071 PS 2 Comparative Fabrication and Mechanical Evaluation of Mycelium-Based Leather Grown on Sawdust Substrates

**Student(s)** Ejin Chung **Grade** 10 **Town** Gangnam-gu

**Farmington** Miss Porter's School Christine Scanlon  
 6082 PS 2 Decoding Dark Matter: What Determines Its Share?

**Student(s)** Claire Lee **Grade** 11 **Town** Farmington

**Farmington** Miss Porter's School Christine Scanlon  
 3091 LS 2 Targeting Pulmonary Fibrosis: Macrophage-Specific Lung-Targeted Lipid Nanoparticles for Gas6 siRNA Delivery

**Student(s)** Leyi Lin **Grade** 10 **Town** Shanghai

**Glastonbury** Glastonbury High School Stephen Falcigno  
 6079 PS 1 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Glastonbury	Glastonbury High School	Stephen Falcigno	3052	LS	2	SAFETY ASSESSMENT OF RADIOISOTOPE LOADED MESOPOROUS SILICA NANOPARTICLES AND ITS TRANSLATIONAL IMPLICATION		
			<b>Student(s)</b>		<b>Catherine Brown</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> glastonbury
Glastonbury	Glastonbury High School	Stephen Falcigno	3027	LS	2	Investigating How APC4 and Shtd Gene Knockdown and Temperature Affect Sperm Structure in Drosophila Melanogaster.		
			<b>Student(s)</b>		<b>Shriya Chennavajhula</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury
Glastonbury	Glastonbury High School	Stephen Falcigno	3035	LS	2	DISCOVERING DIRECT PROBING REAGENTS FOR MODIFYING DNA STRUCTURE WITH MASS SPECTROMETRY		
			<b>Student(s)</b>		<b>Olivia Chi</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury
Glastonbury	Glastonbury High School	Stephen Falcigno	6042	PS	2	Quantifying Heat Accumulation in Power Electronics via Numerical Modeling		
			<b>Student(s)</b>		<b>Owen Collette</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury
Glastonbury	Glastonbury High School	Yuri Gloumakov	6100	PS	2	Predicting human intention with tactile sensing in human-robot collaboration for moving boxes		
			<b>Student(s)</b>		<b>Shrestha Kar</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury
Glastonbury	Glastonbury High School	Stephen Falcigno	3011	LS	2	Identifying Target for Treatment of Neuropsychiatric Illness Through Investigating the Morphology of Low-Leak C-Subunit Mice Mitochondria		
			<b>Student(s)</b>		<b>Ananya Lingamallu</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury
Glastonbury	Glastonbury High School	Stephen Falcigno	6035	PS	1	Green Cellulose Extraction From Autumn Leaves For Biodegradable Packaging Films		
			<b>Student(s)</b>		<b>Ioana Popescu</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury
<p>* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion</p> <p>* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related</p>								
Glastonbury	Glastonbury High School	Stephen Falcigno	6051	PS	2	Designing and Manufacturing a Wingshape Optimized for High-Endurance Mars Flight		
			<b>Student(s)</b>		<b>Taraksh Singh</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Glastonbury

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Glastonbury** Glastonbury High School Stephen Falcigno  
 6066 PS 3 Predicting Motion Outcomes in Civil Litigation Cases  
**Student(s)** Afraz Sohail **Grade** 12 **Town** Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno  
 3161 LS 3 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

**Glastonbury** Glastonbury High School Stephen Falcigno  
 3062 LS 2 A Usability Evaluation of the LookUpTrials Mobile Application to Improve Oncology Clinical Trial Participation  
**Student(s)** Aanshi Thumar **Grade** 11 **Town** Glastonbury

**Greenwich** Brunswick School Dana Montanez  
 3502 LST 2 Comparing Photo Complexes of Spinach and Cyanobacteria in Biophotovoltaic Devices  
**Student(s)** Stanford Apple **Grade** 10 **Town** Greenwich  
 Colt Inman **Grade** 10 **Town** New Canaan

**Greenwich** Brunswick School Dana Montañez  
 3525 LST 2 Linking Bacterial Contamination in Public Water Sources to Daphnia Behavior and Health  
**Student(s)** Owen Bartoszek **Grade** 11 **Town** Greenwich  
 Aidan Williams **Grade** 11 **Town** Greenwich

\* Aquarion Water Company --- 2nd. \$250.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

**Greenwich** Brunswick School Dana Montanez  
 3536 LST 2 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

**Greenwich** Brunswick School Dana Montanez  
 6504 PST 1 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Greenwich</b>	Brunswick School	Dana Montanez	6047	PS	3	Applying Causal Inference Methodologies to a Large-scale Publicly Available Dataset to Assess Causality Between Nutrient Deficiencies and ADHD Diagnoses		
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**Student(s)** Sohan Javeri **Grade** 10 **Town** Greenwich

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

<b>Greenwich</b>	Brunswick School	Dana Montanez	3514	LST	2	A comparative analysis of Equine Nutritive Supplements utilizing invitro gas production as a proxy for in vitro breakdown and absorption		
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**Student(s)** Reed Keller **Grade** 10 **Town** Greenwich

Bear Sickles **Grade** 10 **Town** Greenwich

<b>Greenwich</b>	Brunswick School	Dana Montanez	3044	LS	3	Using Stochastic Modeling Techniques to Determine the Impact of Removal of the Measles Vaccine Mandate in Florida		
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**Student(s)** Arjun Leih **Grade** 10 **Town** Greenwich

<b>Greenwich</b>	Brunswick School	Dana Montanez	3074	LS	3	Determining the Effects of Oleic Acid on Aspergillus oryzae $\alpha$ -Amylase Enzyme Activity		
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**Student(s)** Shepherd McGovern **Grade** 11 **Town** Greenwich

<b>Greenwich</b>	Brunswick School	Dana Montanez	3530	LST	1	An investigation of Methylene Blue's Neuroprotective ability to Inhibit Excess Glutamate in aquatic Invertebrates.		
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**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

<b>Greenwich</b>	Brunswick School	Dana Montanez	3507	LST	1	Antioxidant Delivery using Food Grade Nanoclay as a strategy to emulsify lipids and potentially reduce LDL oxidation.		
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**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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Greenwich</b>	Brunswick School	Dana Montanez	3519	LST	1	Comparative Analysis of Biopolymer Hydrogels: an Investigation of Degradability, Nitrogen Leaching, and Plant Growth.		
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<b>Student(s)</b>	<b>Chris Pedlow</b>	<b>Grade 11</b>	<b>Town</b>	Cos Cob
	<b>Gabriel Levy</b>	<b>Grade 11</b>	<b>Town</b>	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

<b>Greenwich</b>	Brunswick School	Dana Montanez	3177	LS	1	Preventing Zoonotic Parasitic Growth in Freshwater Aquaculture Using Aerogel Praziquantel Feed Additives		
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<b>Student(s)</b>	<b>Sawyer Sacks</b>	<b>Grade 11</b>	<b>Town</b>	Greenwich
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- \* 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

<b>Greenwich</b>	Brunswick School	Dana Montanez	6514	PST	2	Enhancing Photostability of Aquazol with the Addition of HALS and UVAs		
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<b>Student(s)</b>	<b>Harry Saunders</b>	<b>Grade 11</b>	<b>Town</b>	greenwich
	<b>Peter Saunders</b>	<b>Grade 11</b>	<b>Town</b>	Greenwich

<b>Greenwich</b>	Brunswick School	Peter Adams	3143	LS	2	Fostering Bioluminescence In Physcomitrium Patens Embryos Using Plasmid Transformation		
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<b>Student(s)</b>	<b>Thomas Walsh</b>	<b>Grade 10</b>	<b>Town</b>	Harrison
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<b>Greenwich</b>	Brunswick School	Dana Montanez	6039	PS	1	Comparative Study of Magnetohydrodynamic Propulsion Designs for Marine Applications		
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<b>Student(s)</b>	<b>Jack Wendell</b>	<b>Grade 11</b>	<b>Town</b>	Greenwich
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- \* 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

<b>Greenwich</b>	Central Middle School	Marina Pinkhasik	5507	P8	2	Evaluating Dissolved CO <sub>2</sub> and Alkalinity in Coastal Waters		
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<b>Student(s)</b>	<b>Kearnon Henske</b>	<b>Grade 8</b>	<b>Town</b>	Cos Cob
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[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Central Middle School Andrew Bramante

2503	L8	1	In situ, Natural Degradation of Cyanotoxins in Water by <i>L. acidiphilus</i> , with Concurrent Stimulation of the Aquatic Ecosystem
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**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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* 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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

**Greenwich** Central Middle School Andrew Bramante

2508	L8	1	Investigating the Inclusion of Hair Extracted Keratin Nanostructures for Increased Strength and Flexibility for the Construction of an Artificial Anterior Cruciate Ligament
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**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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

**Greenwich** Central Middle School Andrew Bramante

5502	P8	2	Repurposing Carbon Combustion Residuals from a Landfill Waste to a Beneficial Soil Additive
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**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	L8	1	A Web-Based Detection Tool for Medical Conditions Effecting the Eye: Integrating Multiple Trained CNNs for Accessible Smartphone Screening
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**Student(s)** Ares Bandedo-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
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - MS Student in Computing
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Greenwich** Eastern Middle School Andrew Bramante

5515	P8	3	Computer Simulation for School Traffic Optimization
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**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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Eastern Middle School Andrew Bramante

5501 P8 1 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

**Greenwich** Eastern Middle School Andrew Bramante

5506 P8 1 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 L8 1 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 L8 1 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 Academy Deana Semenza

2512 L8 2 Glutathione as a neuroprotectant against glucose induced dopaminergic degeneration in Caenorhabditis elegans

**Student(s)** Addison Garner **Grade 8** **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag

3093 LS 2 The Effect of Different Concentrations of Ampicillin vs. Tea Tree Oil on Bacterial Growth

**Student(s)** Bianca Amen **Grade 12** **Town** Greenwich

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich Country Day School	Nathan Haag	3099	LS	2	Viability of Freshwater Mussels as a Water-Management Tool in America		
			<b>Student(s)</b>		<b>Cate Auerswald</b>		<b>Grade 12</b>	<b>Town</b> Cos Cob
* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition								
Greenwich	Greenwich Country Day School	Nathan Haag	6049	PS	3	Evaluating YOLO-Based Neural Networks for Automated Drone Interception on Resource-Constrained Hardware		
			<b>Student(s)</b>		<b>Zachry Bostock</b>		<b>Grade 12</b>	<b>Town</b> Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	3005	LS	3	Fruits: Can you remember better with or without them?		
			<b>Student(s)</b>		<b>Iyla Brown</b>		<b>Grade 12</b>	<b>Town</b> Norwalk
Greenwich	Greenwich Country Day School	Nathan Haag	3009	LS	2	Seeing Red: Examining Fixed Action Patterns and Vision in the Three Spined Stickleback Fish, <i>Gasterosteus aculeatus</i>		
			<b>Student(s)</b>		<b>Caroline Cabrera</b>		<b>Grade 12</b>	<b>Town</b> Old Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	6063	PS	2	Convolutional Neural Network Classification of DaTSCAN Images for Parkinson's Disease with Interpretability Analysis		
			<b>Student(s)</b>		<b>Mary Chickering</b>		<b>Grade 11</b>	<b>Town</b> Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	3056	LS	2	The effect of various sugar compounds on memory		
			<b>Student(s)</b>		<b>Margaux Citrin</b>		<b>Grade 12</b>	<b>Town</b> Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	3118	LS	2	The effects of spray and lotion sunscreen on corals		
			<b>Student(s)</b>		<b>Charlotte Darwent</b>		<b>Grade 12</b>	<b>Town</b> Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	6020	PS	3	Effects of different drive-signal strategies on refresh rate and resolution of a Micro controller-driven CRT display.		
			<b>Student(s)</b>		<b>Oliver Davis</b>		<b>Grade 11</b>	<b>Town</b> Riverside
* Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich Country Day School	Nathan Haag	3208	LS	2	From Learning to Read to Reading to Learn: How Picture Books Affect Retention and Comprehension Rates In Greenwich Country Day Fourth Graders		
			<b>Student(s)</b>		<b>Tessie Filicetti</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Cos Cob
Greenwich	Greenwich Country Day School	Nathan Haag	3001	LS	3	Oyster Filtration Efficiency on Different Common Sediments		
			<b>Student(s)</b>		<b>Liam Kennon</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Old Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	3121	LS	1	Engineering a Thermostable Enzyme for the Degradation of PET Through Manipulation of Disulfide Bonds		
			<b>Student(s)</b>		<b>Jackson Lieberman</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Greenwich
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion								
Greenwich	Greenwich Country Day School	Nathan Haag	3086	LS	2	Natural versus synthetic sugar and the short-term effects on cognitive functioning in high school students		
			<b>Student(s)</b>		<b>Mary McDonnell</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	3105	LS	3	The Impact of Artificial Intelligence on Student Problem-Solving in Education		
			<b>Student(s)</b>		<b>Taylor Messina</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Old Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	3023	LS	3	Distraction in Motion: Measuring Student Attention and Movement Response to Hallway Events		
			<b>Student(s)</b>		<b>Evan Myers</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Stamford
Greenwich	Greenwich Country Day School	Nathan Haag	3148	LS	3	The Cognitive and Neurological Effects of Test-Induced Stress on the Adolescent Brain		
			<b>Student(s)</b>		<b>Kaia Novack</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Stamford
Greenwich	Greenwich Country Day School	Nathan Haag	3134	LS	3	How Probiotics and Antibiotics Impact Fish Health: Effects of B-Glucan, Bacillus licheniformis, and Ampicillin on Blue Nile Tilapia Health		
			<b>Student(s)</b>		<b>Nicholas Shefter</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Greenwich

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

3094	LS	1	Determining how prevalence of single nucleotide polymorphisms alters HLA molecule's expression, and dictates Juvenile Idiopathic Arthritis' best treatments in specific populations
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**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

3054	LS	2	Design of Zein-Trimethyl Chitosan Nanoparticles for the Non-Invasive Capture and Removal of
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**Student(s)** Isha Bharti **Grade** 10 **Town** Riverside

**Greenwich** Greenwich High School Andrew Bramante

3014	LS	2	CD44-Targeted Nanoparticle Co-Delivery of Simvastatin and Colchicine for Localized Treatment of Atherosclerotic Plaque Inflammation in Cardiovascular Disease
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**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

**Greenwich** Greenwich High School Andrew Bramante

3101	LS	2	Design of a Fluorescence-Based, Point-of-Care Diagnostic for Chronic Kidney Disease via Smartphone Detection of Salivary Creatinine-Porphyrin Conjugation
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**Student(s)** Rajsi Choudhary **Grade** 9 **Town** Riverside

- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque

**Greenwich** Greenwich High School Andrew Bramante

3066	LS	2	Microneedle-Contact Lens Co-Delivery of Azobenzene-Liposome Photoswitches and PEDF Neurotrophic Growth Factors to Repair the Effects of Macular Degeneration
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**Student(s)** Hannah Dcruz **Grade** 11 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3104	LS	2	Colorimetric Sensory Detection of High Levels of Uric Acid and Endothelin-1 for Early Pulmonary Hypertension
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**Student(s)** Amelia Foell **Grade** 11 **Town** Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante

3028	LS	1	A Novel Dual-Targeting Therapeutic Patch for Non-Addictive, Non-Opioid Pain Suppression via Selective Transient Receptor Potential (TRP) Modulation
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**Student(s)** Nishant Jain **Grade** 11 **Town** Riverside

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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante  
 6060 PS 3 Bridging the Sim-to-Real Gap in Autonomous Drone Control via Curriculum-Scheduled Domain Randomization

**Student(s)** Henry Jin **Grade** 12 **Town** Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante  
 3020 LS 1 Exploration of Neuroprotective potential of Moringa oleifera against Alzheimer's Disease and Drosophila Alzheimer's model validation

**Student(s)** Raymond Li **Grade** 11 **Town** 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 PS 3 Harvesting Energy using Rain: Self-Healing Triboelectric Nanogenerators using CNT Composite Paper to Produce Meaningful Energy Production

**Student(s)** Richard Lu **Grade** 9 **Town** 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 LS 1 Development of a Novel Nanoparticle Drug Delivery System using OLAH Targeting to Deliver Surfactant Protein and Prevent Neonatal Respiratory Distress Syndrome

**Student(s)** Tyler Malkin **Grade** 10 **Town** 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  
 3083 LS 2 Development of an Adaptive Glucose-Responsive Oral Insulin Capsule: A Glucose-Oxidase Nanoparticle System for Intestinal Delivery in Type 1 Diabetes

**Student(s)** Ellie Mao **Grade** 9 **Town** Riverside

**Greenwich** Greenwich High School Andrew Bramante  
 3125 LS 1 Creation of PACA nanoparticles with a chitosan bilayer for effective oral delivery of a sildenafil PDE-5

**Student(s)** Neil Pendkar **Grade** 11 **Town** 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

3059	LS	1	Discovery and Validation of Biopolymer Coatings for Nanoparticle-Loaded Silk Fibroin Sutures to Accelerate Tissue Regeneration with a Novel Multimodal Machine Learning Model
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**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

3034	LS	2	Effects of Betanin as a Potential Therapeutic Agent in Parkinson's Disease using a Drosophila melanogaster Model.
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**Student(s)** Tania Samant **Grade** 10 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3133	LS	1	Design of a Novel, Dual-Functioning, T-Cell-Engaging and Cytarabine-Based Nanotherapeutic for Acute Myeloid Leukemia Treatment
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**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	PS	1	Process Optimization of Green Chemistry Pathway for Fabric-to-Fabric Recycling of Cotton
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**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	LS	1	Novel On Chip Screening Device for Ovarian Cancer with Algorithm from SVM-RFE on Serum miRNA Relative Expression Orderings
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**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 Mary Musolino

4007	PT	1	Evaluating Biodegradable Plastics Made from Avocados, Bananas, and Mangos
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**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]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Sacred Heart Greenwich Mary Musolino

4010	PT	2	Testing Different Types of Algae To Reduce The Amount to Carbon Dioxide Emissions in the Atmosphere
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<b>Student(s)</b>	<b>Riley Driscoll</b>	<b>Grade 8</b>	<b>Town</b> Rye
	<b>Catherine Villar</b>	<b>Grade 8</b>	<b>Town</b> Darien
	<b>Gabby Leveille</b>	<b>Grade 8</b>	<b>Town</b> Norwalk

**Greenwich** Sacred Heart Greenwich Mary Musolino

4014	PT	3	Purifying Water using Different Types of Graphene to Adsorb Harmful Pollutants
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<b>Student(s)</b>	<b>Adriana Hassani-Sadi</b>	<b>Grade 8</b>	<b>Town</b> Old Greenwich
	<b>Malaika Bazie</b>	<b>Grade 8</b>	<b>Town</b> 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 Mary Musolino

4004	PT	2	Evaluating the Effectiveness of Supplementing Simulated Lunar Soil to Promote Crop Growth for Future Lunar Missions
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<b>Student(s)</b>	<b>Lily Hohensee</b>	<b>Grade 8</b>	<b>Town</b> Stamford
	<b>Lily Chase</b>	<b>Grade 8</b>	<b>Town</b> Rye
	<b>Paige Yantz</b>	<b>Grade 8</b>	<b>Town</b> Greenwich

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

**Greenwich** Sacred Heart Greenwich Mary Musolino

4018	PT	2	Bio Fuel from Bamboo: Comparing the Yield of Ethanol Produced from Fermentation to the Bio Oil Produced from Solvent Extraction
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<b>Student(s)</b>	<b>Riley Williams</b>	<b>Grade 8</b>	<b>Town</b> Harrison
	<b>Paula Tonkovich</b>	<b>Grade 8</b>	<b>Town</b> New Canaan

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

**Greenwich** Sacred Heart Greenwich Joyce Reed

3203	LS	1	Hearing Loss's Correlation to Anxiety
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<b>Student(s)</b>	<b>Haley Blackwell</b>	<b>Grade 12</b>	<b>Town</b> Rye
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- \* 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, oport. to shadow an audiologist

**Greenwich** Sacred Heart Greenwich Joyce Reed

3513	LST	2	Using Hydromoths to Analyze Energy and Average Power Denisty in Long Island Sound and Bahamas
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<b>Student(s)</b>	<b>Sutton Burchetta</b>	<b>Grade 12</b>	<b>Town</b> Port Chester
	<b>Finley Newman</b>	<b>Grade 12</b>	<b>Town</b> Bedford Corners

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Sacred Heart Greenwich Joyce Reed

3015 LS 1 Understanding The Effects of Music Usage On Caregivers of Alzheimer's Patients

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

**Greenwich** Western Middle School Andrew Bramante

5505 P8 1 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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- \* 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
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - MS Student in Engineering
- \* 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

**Greenwich** Western Middle School Andrew Bramante

5526 P8 1 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

2501 L8 2 The Effect of Soda Acidity, sugar level, and caffeine level on Daphnia Magna's Physiological Responses

**Student(s)** Jason Cabral **Grade** 8 **Town** Wallingford

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

5522 P8 3 Which shapes are the best for making the most aerodynamic car

**Student(s)** David Esposito **Grade** 8 **Town** North Haven

- \* U.S. Air Force --- Certificate & USAF Merchandise Paskage

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2510	L8	2	The Effect of Fungi on Plastic Decomposition		
					<b>Student(s)</b>	<b>Emma Gammans</b>	<b>Grade 8</b>	<b>Town</b> Woodbridge
<ul style="list-style-type: none"> <li>* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF</li> <li>* Robotics and Beyond --- Middle School- For excellence in engineering design; \$230 toward admission to Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp. Certificate.</li> </ul>								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	5517	P8	3	Parallel parking test		
					<b>Student(s)</b>	<b>Gabriel Goldner</b>	<b>Grade 8</b>	<b>Town</b> Bethany
Hamden	Hamden Hall Country Day School	Paulomi Aldo	5014	P7	1	What is the Lowest Ratio of Earth to Mars Soil in which Plants can be Grown?		
					<b>Student(s)</b>	<b>George Hirsch</b>	<b>Grade 7</b>	<b>Town</b> North Haven
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 &amp; trophy</li> <li>* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion</li> <li>* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion</li> </ul>								
Hamden	Hamden Hall Country Day School	Palumi Aldo	2520	L8	3	How different color of light affect potato growth		
					<b>Student(s)</b>	<b>Zhiyang Lu</b>	<b>Grade 8</b>	<b>Town</b> Hamden
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2505	L8	2	The Amount of Carbon Dioxide That Nannochloropsis, Chlorella, and Chlamydomonas can Photosynthesize		
					<b>Student(s)</b>	<b>Gabi Pereira</b>	<b>Grade 8</b>	<b>Town</b> Hamden
* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2515	L8	2	Do Outside Environmental Factors Affect Your Ability To Memorize?		
					<b>Student(s)</b>	<b>Matthew Wallis</b>	<b>Grade 8</b>	<b>Town</b> Hamden
Hamden	Hamden Hall Country Day School	Sarrah Gavin	3176	LS	3	Genetic diversity of aging and stress on breast cancer survival		
					<b>Student(s)</b>	<b>Anna Aslan</b>	<b>Grade 10</b>	<b>Town</b> Hamden
Hamden	Hamden Hall Country Day School	Gina DAngelo	3164	LS	3	Finding a way to qualitatively measure anxiety in adolescents with undetectable questionnaire		
					<b>Student(s)</b>	<b>Penelope Dwyer</b>	<b>Grade 11</b>	<b>Town</b> Madison

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Alice Loth	6095	PS	3	Innovated Emergency Vital Sign Detector		
			<b>Student(s)</b>		<b>Rhea Hu</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> 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	Daniel Kemp	3207	LS	3	How environmental factors (temperature and UV light intensity) affect planarian's regeneration?		
			<b>Student(s)</b>		<b>Tongran Luan</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> Hamden
Hamden	Hamden Hall Country Day School	Alice Loth	3170	LS	2	Development of an AI-algorithm-enabled mobile application and Near-Infrared (NIR) LED device to assist in venipuncture		
			<b>Student(s)</b>		<b>Neev Makin</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Hamden
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	3201	LS	2	Investigation of effect of PFOS on human hippocampal development and function by using human brain organoids		
			<b>Student(s)</b>		<b>Daniel Park</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> milford
Hamden	Hamden Hall Country Day School	Jacob Marchesi	6522	PST	1	Active Noise Cancellation Efficiencies of an Adaptive ANC System Using Destructive Interference to Reduce Harmful Low-frequency Urban Noise.		
			<b>Student(s)</b>		<b>Frida Ramirez Moreno</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Meriden
					<b>Barbara Ramirez Moreno</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Meriden
* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion * University of New Haven Scholarship Awards --- \$120,000, 4 year scholarship (\$30,000 per year) to University of New Haven for exemplary 11th grade project								
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	3136	LS	2	Mutating the Copper Binding Residues of CSRP2 to Asses Protein Function in Murine Primary Myoblasts		
			<b>Student(s)</b>		<b>Alessandra Sticca</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Milford
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	3144	LS	3	Therapeutic Potential of Neurokinin Receptor 1 Antagonist in Breast Cancer		
			<b>Student(s)</b>		<b>Sophia Vash</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Fairfield

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Hamden** Hamden Hall Country Day School Daniel Kemp  
 6517 PST 3 How Does pH Affect the Corrosion Rate of Steel?  
**Student(s)** Yuxiao Yang **Grade 9** **Town** Guilford  
 Jiale Luo **Grade 9** **Town** Derby  
 Xinyi Xiao **Grade 9** **Town** Derby

\* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

**Hamden** Hamden Hall Country Day School Daniel Cuneo  
 6527 PST 3 Evaluating US Coinage -- From Lincoln Cent  
**Student(s)** George Zhang **Grade 10** **Town** Hamden  
 Alina Zhu **Grade 9** **Town** Hamden

**Hamden** Hamden Hall Country Day School Daniel Kemp  
 3033 LS 3 The Hidden Danger of Overusing Antibiotics  
**Student(s)** Bella Zhou **Grade 9** **Town** Hamden

**Hamden** Sacred Heart Academy Elizabeth Christophy  
 6511 PST 2 The Effects of Smoke from Wildfires on the Temperature of Surrounding Areas  
**Student(s)** Avery Cretella **Grade 10** **Town** North Haven  
 Gianna Saldibar **Grade 10** **Town** West Haven

**Hamden** Sacred Heart Academy Elizabeth Christophy  
 6502 PST 1 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

**Hamden** Sacred Heart Academy Paula Napychank  
 3122 LS 3 Never Miss a Dose  
**Student(s)** Beatrice Dikow **Grade 9** **Town** HAMDEN

**Hamden** Sacred Heart Academy Elizabeth Christophy  
 6065 PS 3 How Polarizing Filters Can Affect Glare and Road Safety  
**Student(s)** Braelyn Heusser **Grade 10** **Town** Meriden

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Sacred Heart Academy	Paula Napychank	6119	PS	2	Medication Management		
<b>Student(s) Adriana LaMonico</b>							<b>Grade 9</b>	<b>Town Woodbridge</b>
Hamden	Sacred Heart Academy	Elizabeth Christophy	3512	LST	3	Modeling Aerosol-Albedo Interactions: The Effect of Incense Smoke Above a Simulated Ocean		
<b>Student(s) Audrey Medvecky</b>							<b>Grade 10</b>	<b>Town Guilford</b>
<b>Emilia Prato</b>							<b>Grade 10</b>	<b>Town North Branford</b>
Hamden	Sacred Heart Academy	Paula Napychank	3037	LS	2	Antioxidants From Food Sources Inhibit Bacterial Growth		
<b>Student(s) Caroline Rogers</b>							<b>Grade 9</b>	<b>Town Madison</b>
Hartford	Hartford Magnet Trinity College	Marcus Stafford	6114	PS	2	Analyzing PKB activity and ROS within Dictyostelium discoideum cells via capillary		
<b>Student(s) Naiya Newhouse</b>							<b>Grade 12</b>	<b>Town Ellington</b>
Kent	Kent School	Jesse Klingebiel	3088	LS	3	Ginger-Derived Exosomes Inhibit Microbial Contamination in Aqueous Environment		
<b>Student(s) Leni Fan</b>							<b>Grade 10</b>	<b>Town Lexington</b>
<ul style="list-style-type: none"> <li>* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion</li> <li>* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion</li> </ul>								
Kent	Kent School	Jesse Klingebiel	6120	PS	2	CardVis: Intelligent Automated Surface Defect Inspection System for Playing Cards		
<b>Student(s) Chloe Feng</b>							<b>Grade 10</b>	<b>Town Las Vegas</b>
Kent	Kent School	Michael Green	3058	LS	3	MelodyMemo: A Novel Emotion-Aware Memory-Music Modeling and Recommendation System for Older Adults		
<b>Student(s) Newton Niu</b>							<b>Grade 11</b>	<b>Town Stamford</b>
<ul style="list-style-type: none"> <li>* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion</li> <li>* Bushnell Center for Performing Arts --- Pair of Tickets to &amp; Juliet for top project that is behavioral or social sciences related</li> </ul>								
Kent	Kent School	Jesse Klingebiel	6092	PS	2	Modular Development of a Pneumatic Lumbar Exoskeleton for Assisting Stoop Lifting		
<b>Student(s) Yu Tung Shan</b>							<b>Grade 10</b>	<b>Town Kent</b>
<ul style="list-style-type: none"> <li>* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion</li> <li>* Wisner Chairman's Award --- \$500 cash &amp; plaque</li> </ul>								

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Kent** Kent School Claudia Cea  
 3067 LS 3 Flexible Organic Transistor-Based Devices for Neural Recording in the Gut  
**Student(s)** Emma Sun **Grade** 11 **Town** Hamilton

**Kent** Kent School Jesse Klingebiel  
 6080 PS 3 Dog Nose Print Recognition Method and System  
**Student(s)** Yiduan Wang **Grade** 10 **Town** Kent

**Kent** Kent School Jesse Klingebiel  
 6098 PS 2 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 Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - HS Student in Engineering

**Manchester** Manchester High School Stefanie Sebastiao-Kirby  
 3159 LS 2 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 LST 2 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 LS 1 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

**Manchester** Manchester High School Wendy Turek-Hernandez  
 3168 LS 2 The effects of micropastics on plant growth.  
**Student(s)** Malala Naem **Grade** 12 **Town** manchester

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Manchester** Saint James School Brigid Utz  
 5004 P7 3 The Effect of the Temperature of the Environment on the Ice and Temperature of Water After 24 Hours  
**Student(s)** Blake Chambers **Grade 7** **Town** Manchester

**Manchester** Saint James School Brigid Utz  
 5015 P7 2 The Effect of the Different Type of Baseball Bats on the Exit Velocity of the Baseball  
**Student(s)** Connor Martin **Grade 7** **Town** Manchester

**Manchester** Saint James School Brigid Utz  
 1025 LT 3 The Effect of Sound and Music Genres on Heart Rate (Measured in Beats per Minute)  
**Student(s)** Therese Pfeiffer **Grade 7** **Town** Tolland  
 Morgan Gaidos **Grade 7** **Town** Glastonbury

**Mansfield** Edwin O. Smith High School Cheryl Granger  
 3528 LST 1 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 LS 2 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 PST 3 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Montville** Saint Thomas Moore School Yajamana Ramu  
 3129 LS 3 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

**New Haven** Engineering and Science University Magnet Alyssa Anderson  
 5008 P7 1 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, Trophy, Medallion, invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge & Scholarship to Project Oceanology's Ocean Camp (\$955)
- \* 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 Alyssa Anderson  
 4011 PT 3 Which Material Erodes The Most

**Student(s)** Jacob Werlin **Grade** 7 **Town** New haven  
 Finnian Dooley **Grade** 7 **Town** New Haven

- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

**New Haven** Engineering and Science University Magnet Alyssa Anderson  
 3092 LS 3 Investigating the Impact of Akkermansia Muciniphila on Neuropathology in Parkinson's Disease Mice

**Student(s)** Titiladeoluwa Adeniran **Grade** 11 **Town** Seymour

**New Haven** Engineering and Science University Magnet Alyssa Anderson  
 3038 LS 1 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 Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Science or Math, Grade 11 only - \$120,000 (\$30,000/year)

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

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

6007 PS 3 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 PST 3 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 LS 1 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 Leilei Shinohara

5521 P8 2 Optical Fire Detection using Computer Vision

**Student(s)** Maki Lawrence Shinohara **Grade** 8 **Town** New Haven

- \* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- \* Jon Stone Memorial Awards --- Jon Stone Award for Innovative Engineering- \$100

**New Haven** Hopkins School Viktoriia Kolesnyk

3097 LS 2 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

**New Haven** Hopkins School Phillip Stewart

6040 PS 2 Arduino-Based Active Stabilization System for Model Rockets Using IMU Feedback and Servo-Driven Fins

**Student(s)** Aiden Gomez **Grade** 10 **Town** Orange

- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* U.S. Air Force --- Certificate & USAF Merchandise Package

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**New Haven** Hopkins School Z Ping Lin

3078	LS	1	Investigating the Role of Rad52 Inhibition in HR Repair in Ovarian Cancer					
<b>Student(s)</b>			<b>Riya Rao</b>		<b>Grade</b>	<b>12</b>	<b>Town</b>	Woodbridge

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

**New Haven** Hopkins School Yi Wang

3025	LS	2	Nano-Enabled Defense: Using Sulfur Nanoparticles to Limit Cadmium in Soybeans					
<b>Student(s)</b>			<b>Luannie Wang</b>		<b>Grade</b>	<b>10</b>	<b>Town</b>	Guilford

\* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place HS- \$200, Plaque

**New Haven** Hopkins School Phillip Stewart

3021	LS	3	How does the expression or dysfunction of KCC2 protein relate to epilepsy and a potential treatment					
<b>Student(s)</b>			<b>Heli (Aurelia) Wen</b>		<b>Grade</b>	<b>11</b>	<b>Town</b>	Woodbridge

**New Haven** Sound School Charles Mulligan

3529	LST	2	Potential Impact of PET Leachate on Nutrient Uptake of Marine Microalgae					
<b>Student(s)</b>			<b>Violet Sibley</b>		<b>Grade</b>	<b>12</b>	<b>Town</b>	New Haven
			<b>Gabriella Belizaire</b>		<b>Grade</b>	<b>11</b>	<b>Town</b>	Hamden

**New Haven** Wilbur Cross High School John Lazzari

3140	LS	1	Studying Compositionality in Multitasking Artificial Neural Networks for Motor Control					
<b>Student(s)</b>			<b>Julian Theodore</b>		<b>Grade</b>	<b>12</b>	<b>Town</b>	New Haven

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion  
 \* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place High School - \$200 and Plaque, Medallion, and \$1250 stipend to compete at GENIUS Olympiad

**New Haven** Worthington Hooker School Douglas Jones

1030	LT	3	Natural Cleaners vs Chemical Cleaners					
<b>Student(s)</b>			<b>Paulina Borowski</b>		<b>Grade</b>	<b>8</b>	<b>Town</b>	New Haven
			<b>Camila Guerrero Diaz</b>		<b>Grade</b>	<b>8</b>	<b>Town</b>	New Haven

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

**New Haven** Worthington Hooker School Douglas Jones

1009	LT	3	Does light wavelength affect plant growth?					
<b>Student(s)</b>			<b>Ayra Tarabar</b>		<b>Grade</b>	<b>8</b>	<b>Town</b>	New Haven
			<b>Kayla Pinkard</b>		<b>Grade</b>	<b>8</b>	<b>Town</b>	new Haven

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**New Milford** Canterbury School Woo Rin Lee

3061 LS 2 Eco-Friendly Floating Bio-Island for Simultaneous Removal of Heavy Metals from Polluted Water Using Aquatic Macrophytes

**Student(s)** Minhyo Tae **Grade** 11 **Town** Seoul, South Korea

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

**North Haven** Slate School Jennifer Staple-Clark

2514 L8 1 A Microbiology Study of Ancient and Modern Flours: Comparing Microbial and Chemical Changes in Leavening Systems

**Student(s)** Pierson Clark **Grade** 8 **Town** North Haven

\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 8th grade- \$200 & trophy  
 \* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place Middle School - \$100, Trophy

**Norwich** Norwich Technical High School Kaitlin McKale

3526 LST 1 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

3057 LS 3 Influence of microplastic size and density on the structure of microbial communities: Implications for soil health

**Student(s)** Nyashia Bostick **Grade** 11 **Town** Willimantic

\* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

**Norwich** Norwich Technical High School Kaitlin McKale

3010 LS 2 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 Scholarship Awards --- \$120,000, 4 year scholarship (\$30,000 per year) to University of New Haven for exemplary 11th grade project

**Norwich** Norwich Technical High School Kaitlin McKale

3004 LS 2 Effects of Environmental Conditions on Bone Degradation.

**Student(s)** Ruby Craig **Grade** 11 **Town** Moosup

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Norwich	Norwich Technical High School	Kaitlin McKale	3100	LS	2	Investigation of microbial pigments for use as an antimicrobial		
<b>Student(s) Kivannys Diaz Ruiz</b>							<b>Grade 11</b>	<b>Town moosup</b>
Norwich	Norwich Technical High School	Kaitlyn McKale	3098	LS	2	what plants bees prefer to pollinate with		
<b>Student(s) Elijah Jackman</b>							<b>Grade 11</b>	<b>Town voluntown</b>
* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion								
Norwich	Norwich Technical High School	Kaitlin McKale	3022	LS	3	Gut content analysis of the invasive European Green Crab <i>Carnius maenas</i>		
<b>Student(s) Lily Kosma</b>							<b>Grade 11</b>	<b>Town Moosup</b>
Norwich	Norwich Technical High School	Kaitlin Mckale	3196	LS	1	The Effects of Skin Care Products on the Face Microbiome		
<b>Student(s) Emma Stimson</b>							<b>Grade 11</b>	<b>Town Moosup</b>
Plainville	Plainville High School	Michelle Bellinger	6005	PS	1	Improving Airplane Efficiency and Maximizing a Sustainable Angle of Attack Through Acoustic Streamlining		
<b>Student(s) Raman Kasabrukhou</b>							<b>Grade 10</b>	<b>Town Plainville</b>
* 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								
Pomfret	Pomfret School	Gwyneth Connell	3210	LS	2	Cortisol-Induced Epigenetic Changes in Skin Cells and the Potential of Plant-Derived Exosomes for Reversing Stress-Induced Skin Aging		
<b>Student(s) Euhyun Jahng</b>							<b>Grade 11</b>	<b>Town Seoul</b>
Pomfret	Pomfret School	Annie O'Sullivan	6124	PS	2	Leg exoskeletons that can help people with leg disabilities walk		
<b>Student(s) Jiazhi Zhao</b>							<b>Grade 10</b>	<b>Town Pomfret</b>
* Biophysical Society --- Biophysics Award- \$100								
Redding	Joel Barlow High School	Katherine Nuzzo	3166	LS	2	Impact of Drought-Induced Stress on The Accumulation of Polysaccharide and Glucosinolate levels in <i>Raphanus sativus</i> Roots, and Their Possible Implications on the Gut Microbiome		
<b>Student(s) Victoria Abukhovich</b>							<b>Grade 11</b>	<b>Town Redding</b>

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Redding	Joel Barlow High School	Paul Testa	6054	PS	2	Adaptive Authentication Against DDoS Attacks: A Performance Analysis		
					<b>Student(s)</b>	<b>Christopher Alvarado</b>	<b>Grade 11</b>	<b>Town</b> Easton
Redding	Joel Barlow High School	Kathrine Nuzzo	3189	LS	3	Pediatric school stress and biomarkers for respiratory health in teenagers		
					<b>Student(s)</b>	<b>Sierra Iacovella</b>	<b>Grade 9</b>	<b>Town</b> Easton
Redding	Joel Barlow High School	Katherine Nuzzo	6045	PS	2	Novel Approach for Viewing Quantum Superposition		
					<b>Student(s)</b>	<b>Randy Rivera</b>	<b>Grade 12</b>	<b>Town</b> Redding
Ridgefield	Ridgefield High School	Ryan Gleason	3531	LST	2	The effect of temperature on Swamp Milkweed germination and growth rates,		
					<b>Student(s)</b>	<b>Leighton Accinelli</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
						<b>Stella Accinelli</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Ryan Gleason	3041	LS	3	Testing Human Ability to Detect AI Generated Faces Across Trials		
					<b>Student(s)</b>	<b>Erin Byrne</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	6523	PST	1	A Nuclear Magnetic Resonance Spectroscopy Study of Five Di-imine Molecules		
					<b>Student(s)</b>	<b>Eva Figlar</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
						<b>Anahit Abernethy</b>	<b>Grade 11</b>	<b>Town</b> 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	LS	2	Prevalence of Pathogens in Asian Longhorn Ticks (Haemaphysalis Longicornis) in Bridgeport Connecticut		
					<b>Student(s)</b>	<b>Sara Hill</b>	<b>Grade 12</b>	<b>Town</b> 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								
Ridgefield	Ridgefield High School	Ryan Gleason	3030	LS	2	The Effects of Glucose on Traumatic Brain Injury Recovery in Drosophila Relevant to Chronic Traumatic Encephalopathy		
					<b>Student(s)</b>	<b>William Knispele</b>	<b>Grade 11</b>	<b>Town</b> Ridgefield

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Ridgefield** Ridgefield High School Adam Vigil  
 3167 LS 2 Assessment of Accuracy in Predicting Human Clearance for Linear Monoclonal Antibodies from Animal Models  
**Student(s) Hancheng Peng** **Grade 11** **Town** Ridgefield

**Rocky Hill** Rocky Hill High School Brian Graca  
 6090 PS 3 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 LS 1 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 Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Science or Math, Grade 11 only - \$120,000 (\$30,000/year)

**Rocky Hill** Rocky Hill High School Sharon Parker  
 3130 LS 2 Identifying Psychiatric Disorder Risk Genes: Computational Multi-Omic Analysis of Gene Expression and Chromatin Accessibility Comparing Developing vs. Adult Prefrontal Cortex  
**Student(s) Ashika Sharma** **Grade 11** **Town** Rocky Hill

**Salisbury** Indian Mountain School Marissa Teator  
 1014 LT 2 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  
 3149 LS 2 A novel ferritin delivery system targeting glioblastoma  
**Student(s) Jerry Fan** **Grade 11** **Town** Watervliet

**Salisbury** The Hotchkiss School Jennifer Rinehart  
 3183 LS 1 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Salisbury** The Hotchkiss School Jennifer Rinehart  
 3026 LS 2 Trends in Early-Onset Cancer and Associations With Obesity, Alcohol Use, Marijuana, and Nicotine Use in the United States  
**Student(s)** Arya Samat **Grade** 9 **Town** Avon

**Salisbury** The Hotchkiss School Jennifer Rineharticus  
 3064 LS 2 Exploring potential biomarkers involved in oxidative stress and intercellular crosstalk in diabetic microvascular complications  
**Student(s)** Xirong(Hermione) Wu **Grade** 11 **Town** Salisbury

**Salisbury** The Hotchkiss School Jennifer Rinehart  
 3175 LS 2 Salt Form Modification of Resveratrol: A Novel Approach for Creating an Effective Cardiovascular Drug  
**Student(s)** William Xie **Grade** 10 **Town** Lakeville

**Salisbury** The Hotchkiss School Jennifer Rinehart  
 3162 LS 1 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  
 1008 LT 2 What Is The Best Way To Preserve Strawberries?  
**Student(s)** Corinne Cortinhas **Grade** 8 **Town** Shelton  
 Ellie Randall **Grade** 8 **Town** Shelton  
 Jayce Micholovich **Grade** 8 **Town** Shelton

**Shelton** Shelton Intermediate School Rebecca Manzer  
 1021 LT 3 What Is the Dirtiest Public Restroom?  
**Student(s)** Charlotte Goncalves **Grade** 7 **Town** Shelton  
 Sienna Basile **Grade** 7 **Town** shelton

**Shelton** Shelton Intermediate School Rebecca Manzer  
 1002 LT 1 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Simsbury** Westminster School Mike Van Dolah

6513	PST	1	Multi-Function Submersible for Microplastic Collection and Aquatic Environmental Analysis					
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<b>Student(s)</b>	<b>Muqiao Zong</b>	<b>Grade 10</b>	<b>Town</b>	Simsbury
	<b>Andrew Ma</b>	<b>Grade 11</b>	<b>Town</b>	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

**South Windsor** South Windsor High School April Davis

6508	PST	3	Green Light AI					
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<b>Student(s)</b>	<b>Devdutt Bhatte</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor
	<b>Jude Pohl</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor
	<b>Srivashist Gaddam</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor

- \* Bushnell Center for Performing Arts --- Pair of Tickets to & Juliet - for top project involving technology and lights for Arts & Theatre Applications, if possible

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

3209	LS	2	TRACK I-S: Predicting Future Lyme Disease Risk Zones in CT Counties through a Scratch-Based Simulation					
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<b>Student(s)</b>	<b>Chiamaka Chidiadi</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor
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**South Windsor** South Windsor High School Danel Eitel

6076	PS	2	Trash To Treasure					
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<b>Student(s)</b>	<b>Kaitlyn Earley</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor
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**South Windsor** South Windsor High School Danel Eitel

6526	PST	2	SHAP-Interpretable Random-Forest Analysis of Multimodal Brownfield Site Data for Cost-Aware, Community-Driven Bioremediator Recommendations					
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<b>Student(s)</b>	<b>Gian Handa</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor
	<b>Nevin Joseph</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor

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

6036	PS	2	Q.U.A.R.K.: A Quantitative Urban Anomaly Risk Kinetics Model for Forecasting Climate-Driven Human Displacement Using Multi-Factor Time-Series Analysis					
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<b>Student(s)</b>	<b>Saisatvik Koppu</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor
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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**South Windsor** South Windsor High School April Davis

6516	PST	2	Developing Eco Friendly Sunscreen Formulations With Optimized Ingredient Concentrations to Reduce Zebrafish and Aquatic Ecosystem Toxicity					
<b>Student(s)</b>			<b>Akshara Labhe</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			
			<b>Charvi Dixon Islur</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			
			<b>Siva Nalamolu</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			

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

3095	LS	1	A Quantitative Evaluation of Microplastic Degradation Using Enzyme Kinetics and Binding Energy					
<b>Student(s)</b>			<b>Rachel Mathew</b>	<b>Grade</b> 10	<b>Town</b> 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	LS	1	Salt-Eating BioTiles: A Sustainable Solution to Combat Soil Salinity Using Halobacterium					
<b>Student(s)</b>			<b>Prasheeta Mohanty</b>	<b>Grade</b> 10	<b>Town</b> 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

6011	PS	2	From Fumes to Fertilizer: A Dual-Stage Catalytic System Converting Livestock Methane into Carbonate for Sustainable Crop Growth					
<b>Student(s)</b>			<b>Aniron Pal</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			

\* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF

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

6533	PST	2	Project MASTERMIND: Mobilizing Actuarial Science To Extrapolate Risk Maps Identifying Natural Disasters					
<b>Student(s)</b>			<b>Keshav Prem</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			
			<b>Henry Venne</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			

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

3518	LST	3	Cyanopanel					
<b>Student(s)</b>			<b>Diva Shajith</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			
			<b>Amariah Ysabelle Luci</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			
			<b>Sahasra Natti</b>	<b>Grade</b> 10	<b>Town</b> South Windsor			

\* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Ccard 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>South Windsor</b>	South Windsor High School	Minatchy Visvanathan	6061	PS	2	DOTBot: Diffusion-Aligned Chain-of-Thought Bipedal Humanoid Robot for Interpretable Real-Time Autonomous Navigation, Hazard Mitigation, and Recovery in High-Risk Built Environments		
<b>Student(s)</b> Karthik Srikumar			<b>Grade</b> 11			<b>Town</b> South Windsor		
<ul style="list-style-type: none"> <li>* Infosys Foundation Computer Science Awards --- 1st Place High School - \$300, Plaque</li> <li>* Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$300 &amp; plaque and trip to ISEF</li> <li>* Yale Science &amp; Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF</li> <li>* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250</li> <li>* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250</li> <li>* Lunch with a Patent Attorney --- Lunch with a Patent Attorney</li> </ul>								
<b>Southington</b>	Southington High School	Nicole Riccio	3516	LST	3	Application of powdered magnetite as an absorbent for petroleum spill removal from seawater.		
<b>Student(s)</b> Esra Agirman			<b>Grade</b> 10			<b>Town</b> Southington		
<b>Student(s)</b> Vaibhav Reddy Nandi Reddy			<b>Grade</b> 10			<b>Town</b> Southington		
<b>Stamford</b>	King School	Victoria Schulman	6088	PS	1	Real-Time Instance Segmentation for Curb and Path Detection in Assistive Wearables for Blind and Low-Vision Assistance		
<b>Student(s)</b> Olivia Ajayi			<b>Grade</b> 11			<b>Town</b> Stamford		
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion</li> <li>* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion</li> <li>* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project</li> </ul>								
<b>Stamford</b>	King School	Victoria Schulman	6072	PS	2	Predicting Detectability of Transiting Exoplanets: A Python-based Signal-to-Noise Ratio Model		
<b>Student(s)</b> Mia Jakubowsky			<b>Grade</b> 11			<b>Town</b> Rye		
<ul style="list-style-type: none"> <li>* Astronomical Society of Greater Hartford - The Charles Hammond for Excellence in Astronomy Award --- Senior Top Project-\$1000, subscription to Sky and Telescope, ASGH membership and meeting invitation</li> <li>* Connecticut Association of Physics Teachers --- \$100 Senior project</li> </ul>								
<b>Stamford</b>	King School	Victoria Schulman	3114	LS	3	Potential Medications to Treat Concussion in D. melanogaster as a Model Organism		
<b>Student(s)</b> Kleighton Kennedy			<b>Grade</b> 11			<b>Town</b> Greenwich		
<b>Stamford</b>	King School	Victoria Schulman	3017	LS	2	Illuminating the Role of Lipid Metabolism Pathways in T-cell Exhaustion		
<b>Student(s)</b> Madison Kennedy			<b>Grade</b> 11			<b>Town</b> Greenwich		

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stamford	King School	Victoria Schulman	6014	PS	2	A Voice-Controlled Robotic Arm for Assisting Complex Surgical Tasks		
			<b>Student(s)</b>		<b>Dillon Maltese</b>	<b>Grade 12</b>		<b>Town</b> Greenwich
* Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion								
Stamford	King School	Victoria Schulman	3146	LS	3	Effects of Dietary Sugars on Bone Mass and Mechanical Strength		
			<b>Student(s)</b>		<b>Max Marti</b>	<b>Grade 11</b>		<b>Town</b> New Canaan
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion								
Stamford	King School	Victoria Schulman	3202	LS	2	Assessing the Effects of GLP-1 Receptor Agonists on Digestion in Drosophila Melanogaster		
			<b>Student(s)</b>		<b>Nicholas Marti</b>	<b>Grade 11</b>		<b>Town</b> New Canaan
Stamford	King School	Victoria Schulman	3197	LS	1	CX3CR1+ Cell Type-Specific ERK Hyperactivation Promotes Inflammatory Remodeling		
			<b>Student(s)</b>		<b>Lilah Mehta</b>	<b>Grade 11</b>		<b>Town</b> New Canaan
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion								
Stamford	King School	Victoria Schulman	3082	LS	2	Alarmin release by renal cell carcinoma cells undergoing hypoxia-induced cell death		
			<b>Student(s)</b>		<b>Mahnoor Nomani</b>	<b>Grade 11</b>		<b>Town</b> Stamford
Stamford	King School	Victoria Schulman	6083	PS	2	A Sustainable Treatment For Heavy Metal Pollution: Adsorption and Desorption of Ni(II) Ions In Water Using DNA-Wrapped Carbon Nanotubes		
			<b>Student(s)</b>		<b>Bruno Reinhoefer Ribeiro</b>	<b>Grade 12</b>		<b>Town</b> Riverside
* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition								
Stamford	King School	Victoria Schulman	6038	PS	2	Design and Application of Gamified Health Tools: From Population-Level Habit Formation to Clinical Evaluation in Traumatic Brain Injury		
			<b>Student(s)</b>		<b>Vito Scutari</b>	<b>Grade 12</b>		<b>Town</b> Norwalk
Stamford	King School	Victoria Schulman	3108	LS	2	Assessing the Effects of Equine Grazing Muzzles on Upper Incisor Length and Dental Qualities in Ponies		
			<b>Student(s)</b>		<b>Marilyn Sommerville</b>	<b>Grade 11</b>		<b>Town</b> South Salem
* NYUC Pony Club Equine or Animal Science Awards --- \$100 Cash Award for excellence in equine studies								

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Stamford** King School Victoria Schulman  
 3204 LS 3 Experimentation and Application of Nutrient Additives to Enhance Resilience of Coral Reefs Against Climate Change  
**Student(s) Lucia Vivanco** **Grade 12** **Town** Stamford

**Stamford** Laurel Springs School Vera Ulanovskaya  
 6096 PS 2 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-Helene Grossomanides  
 5518 P8 3 Investigating the effect of tire type on robot performance  
**Student(s) Tyler Baltrukonis** **Grade 8** **Town** Pawcatuck

\* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by ONR

**Stonington** St. Michael School Anna Grossomanides  
 2007 L7 1 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

**Stonington** St. Michael School Anna-Helene Grossomanides  
 5016 P7 3 Potter Hill Problem  
**Student(s) Vito Gynter** **Grade 7** **Town** Westerly

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

**Stonington** St. Michael School Anna-Helene Grossomanides  
 2507 L8 3 To Swim or Not To Swim  
**Student(s) Camille Thomas** **Grade 8** **Town** Gales Ferry

\* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$50 cash

**Stratford** St. Mark School Patrick Fallon  
 2008 L7 1 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Stratford** St. Mark School Andrea Borbor  
 5512 P8 2 Crash! Testing Model Cars  
**Student(s)** Stella Jass **Grade 8** **Town** Trumbull

\* Anonymous Friends of the Fair Family Awards --- 1st place - \$250 - For Excellence in Engineering Middle School

**Suffield** Suffield Academy Heng Song  
 3152 LS 2 Engineered Probiotic OMVs Overcome IBD Therapeutic Barriers via Dual-Gene Editing & ClyA-SOD Membrane Fusion  
**Student(s)** Jingshu Wang **Grade 10** **Town** Shanghai

**Suffield** Suffield High School Sam Harfenist  
 6102 PS 2 Evaluation of Environmental Parameters and Design Optimization for Kirigami-Inspired Parachutes  
**Student(s)** Arnav Ukidwe **Grade 11** **Town** Suffield

**Suffield** Suffield High School Sam Harfenist  
 6068 PS 2 Multivariate and Bayesian Regression Modeling of Stock Performance using Microeconomic, Macroeconomic, and Momentum based Predictors.  
**Student(s)** Shaunak Ukidwe **Grade 11** **Town** Suffield

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
 6529 PST 3 Using pro-biotics in sports drinks to reduce inflammation  
**Student(s)** Elianna Brocco **Grade 11** **Town** Shelton  
 Karina Castro Conde **Grade 11** **Town** Bridgeport  
 Yashila Suresh **Grade 11** **Town** Shelton

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
 6056 PS 3 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  
 3533 LST 3 The affect of acetaminophen on children during pregnancy and risk of neurodevelopmental disorders.  
**Student(s)** Daniel Pereira **Grade 11** **Town** Bridgeport  
 Selvin Lemus-Solano **Grade 11** **Town** Bridgeport

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
 3505 LST 2 Foods Containing Allicin Affect on Killing Resistant Bacteria  
**Student(s)** Atiya Rogers **Grade** 11 **Town** Bridgeport  
 Melanie Vasquez **Grade** 11 **Town** Bridgeport

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
 3181 LS 3 Comparative analysis of the performance proficiency between CRISPR-Cas9 and CRISPR-Cas12a in crop and bacterium genome genetic modification  
**Student(s)** Autumn Settembre **Grade** 10 **Town** Trumbull

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
 3532 LST 3 Analyzing The Decline of Sickle Cell Genes in Regions Where Malaria Has Disappeared  
**Student(s)** Keeley Tolido **Grade** 11 **Town** Stratford  
 Olivia Kish **Grade** 11 **Town** Shelton  
 Adriana Castillo **Grade** 11 **Town** Trumbull

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
 3120 LS 1 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 Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Engineering or Technology, Grade 11 only - \$120,000 (\$30,000/year)

**Wallingford** Choate Rosemary Hall Talia Dell Angelo  
 6009 PS 2 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

**Wallingford** Choate Rosemary Hall Yunfei Bai  
 6028 PS 3 Multi-degree-of-freedom Synchronous-driven Spinal Rehabilitation Exoskeleton for Post-injury and Postoperative Recovery  
**Student(s)** Grace Ju **Grade** 11 **Town** Wallingford

**Wallingford** Choate Rosemary Hall Jan Cook  
 3111 LS 1 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Wallingford** Choate Rosemary Hall George Gu

6111	PS	1	NeuroMirror: An Intelligent EEG-Driven Mirror Therapy System Grounded in Hebbian Theory for Post-Stroke Upper-Limb Rehabilitation
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**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	PST	2	Harvesting Water from Air: Optimization of a Novel Solar-Powered Atmospheric Water Generator
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**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

**Wallingford** Choate Rosemary Hall Jan Cook

6018	PS	3	AquaAcoustic AI: A Low-Cost Intelligent Device for Rapid Reagent-Free Water Quality Assessment via Acoustic Resonance
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**Student(s)** Neil Wang **Grade** 11 **Town** North York

**Washington** The Frederick Gunn School Morgen Fisher

3084	LS	2	Dose-Dependent Effects of Chitosan Nanoparticles on Human Fibroblast Proliferation and Skin Wound Closure
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**Student(s)** Eva Kwon **Grade** 11 **Town** Washington

**Washington** The Frederick Gunn School Morgen Fisher

3123	LS	1	Identify NK Cell Global Changes during Breast Cancer Development via Analyzing Single-cell Transcriptomes in Human Breast
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**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	P7	2	Exploring Scent Movement and Diffusion
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**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

5001	P7	2	Strength of Passwords Based on Character Combinations
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**Student(s)** Tessa Finch **Grade** 7 **Town** Bethlehem

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Waterbury	ACES Chase Academy	Anne Pember	4008	PT	3	How Temperature Changes Influence Ocean Currents		
		<b>Student(s)</b>				<b>Haley Galvin</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
						<b>Sheyla Martos Carchi</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
Waterbury	ACES Chase Academy	Rachel Murray	1032	LT	2	Human Ability to Detect AI-Generated Images: A Comparative Photo Survey		
		<b>Student(s)</b>				<b>Charlotte Joyce</b>	<b>Grade 7</b>	<b>Town</b> Prospect
						<b>Kamryn Torres</b>	<b>Grade 7</b>	<b>Town</b> Naugatuck
Waterbury	ACES Chase Academy	Anne Pember	1024	LT	2	From Food Waste to Water Bottles: Testing Avocado (Persea Americana) Skins as a Sustainable Material		
		<b>Student(s)</b>				<b>Emalyn Lemos</b>	<b>Grade 7</b>	<b>Town</b> Oakville
						<b>Camila Ruiz-Ribeiro</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion								
Waterbury	ACES Chase Academy	Anne Pember	5018	P7	3	Breaking Down Rust with Everyday Liquids		
		<b>Student(s)</b>				<b>Tallulah Madore</b>	<b>Grade 7</b>	<b>Town</b> Meriden
Waterbury	ACES Chase Academy	Anne Pember	1017	LT	2	Galleria Melonella Larvae as Plastic Eaters: Myth or Fact?		
		<b>Student(s)</b>				<b>Mason Mercado</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
						<b>Jason Deo</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion								
Waterbury	ACES Chase Academy	Rachel Murray	1010	LT	2	Germ Geography: Mapping Microbes Around Our School		
		<b>Student(s)</b>				<b>Liam St. Germain</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
						<b>Brian Devoe</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
Waterbury	ACES Chase Academy	Anne Pember	5007	P7	2	Cake Chemistry and Leavening Agents		
		<b>Student(s)</b>				<b>Kamila Tellez</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
Waterbury	ACES Chase Academy	Anne Pember	6004	PS	3	Live-All Purpose GPS Tracker using Arduino		
		<b>Student(s)</b>				<b>Fernando Figueiredo</b>	<b>Grade 9</b>	<b>Town</b> Naugatuck

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Waterbury** ACES Chase Academy Anne pember  
 3184 LS 3 Dominat salt marsh species, Spartina alterniflora and Geukensia demissa, being used to mesure 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  
 6078 PS 2 A Comparative Analysis of CPU Utilization in Bubble Sort and Merge Sort.

**Student(s)** Aarshman Khan **Grade** 9 **Town** Waterbury

**Waterbury** ACES Chase Academy Anne pemper  
 6115 PS 3 AI-Based Adaptive Street Safety Assistant for the Visually Impaired

**Student(s)** Kauan Nascimento **Grade** 10 **Town** waterbury

**Waterbury** ACES Chase Academy Anne Pember  
 6022 PS 2 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 LS 2 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  
 6016 PS 2 Monte Carlo Simulation-Based Probability Model of Wildfire Spread on a Two-Dimensional Grid

**Student(s)** Hyunseung Lee **Grade** 10 **Town** Woodbury

**Watertown** The Taft School Amanda Benedict  
 3043 LS 3 Impact of Photosynthetic Pathway on Trait Tradeoffs and Nitrogen Use in Bromeliads

**Student(s)** Qinrong Qian **Grade** 11 **Town** Watertown

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Watertown</b>	The Taft School	Amanda Benedict	3521	LST	1	Finding a New Class of Inhibitors for IL-1 $\beta$ (interleukin-1 beta) Towards the Cure of Age Related Macular Degeneration		
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<b>Student(s)</b>	<b>Jonathan So</b>	<b>Grade</b>	11	<b>Town</b>	Watertown
	<b>Jamie Ho</b>	<b>Grade</b>	11	<b>Town</b>	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

<b>Watertown</b>	The Taft School	Anton Antonov	6099	PS	2	Neural A*: Learning-Guided, Bounded-Optimal Path Planning for Cluttered Maps		
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<b>Student(s)</b>	<b>Andreas Tsang</b>	<b>Grade</b>	10	<b>Town</b>	Watertown
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- \* Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion

<b>Watertown</b>	The Taft School	Amanda Benedict	6070	PS	1	A Novel Equestrian Virtual Reality-Based Coordination Rehabilitation System for Post-Stroke Motor Recovery		
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<b>Student(s)</b>	<b>Mily Xue</b>	<b>Grade</b>	10	<b>Town</b>	Watertown
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- \* 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

<b>West Hartford</b>	Kingswood Oxford	Allison Tucker	5524	P8	2	Evaluating the Effectiveness of Nano-ZnO in Removing Heavy Metals from Petroleum Refinery Wastewater		
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<b>Student(s)</b>	<b>London Veseskis</b>	<b>Grade</b>	8	<b>Town</b>	Wethersfield
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<b>West Hartford</b>	Kingswood Oxford	Ashkan Novin	3178	LS	1	A Multi-Modal AI/ML Platform for Neurodegenerative Risk Prediction: Integrating Epigenetic Signatures through cfDNA Methylation and Functional Mobility Data		
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<b>Student(s)</b>	<b>Rhea Doshi</b>	<b>Grade</b>	10	<b>Town</b>	Farmington
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- \* 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

<b>West Haven</b>	Notre Dame High School	Omar Espinosa	3107	LS	3	Decoding Adhesion Proteins: Computational Insights for Smarter Brain-on-a-Chip Interfaces		
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<b>Student(s)</b>	<b>Siddarth Kothandam</b>	<b>Grade</b>	11	<b>Town</b>	Hamden
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- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Weston</b>	Weston High School	Stacey Greenberg	6507	PST	2	Prometheus: Discovering Novel Quantum Critical Phenomena in Disordered Systems Using Unsupervised Deep Learning		
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<b>Student(s)</b>	<b>Brandon Yee</b>	<b>Grade</b> 12	<b>Town</b> Weston
	<b>Maximilian Rutkowski</b>	<b>Grade</b> 12	<b>Town</b> Weston
	<b>Wilson Collins</b>	<b>Grade</b> 12	<b>Town</b> Weston

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

<b>Westport</b>	Greens Farms Academy	Mathieu Freeman	6062	PS	3	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		
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<b>Student(s)</b>	<b>Cannon Anderson</b>	<b>Grade</b> 12	<b>Town</b> weston
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\* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion

<b>Westport</b>	Greens Farms Academy	Mathieu Freeman	6053	PS	2	Evaluating the Effectiveness of Agricultural Waste-Derived Biochars Embedded in Sodium Alginate Hydrogel Beads for Mitigating Aqueous Copper Ion Toxicity		
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<b>Student(s)</b>	<b>Anya Bhuyan</b>	<b>Grade</b> 11	<b>Town</b> Westport
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<b>Westport</b>	Greens Farms Academy	Juli Gerdes	3135	LS	3	Vitamin B's Effect on Delaying Alzheimer's		
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<b>Student(s)</b>	<b>Skylar Dreas</b>	<b>Grade</b> 12	<b>Town</b> norwalk
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<b>Westport</b>	Greens Farms Academy	Mathieu Freeman	3113	LS	3	The Influence of Environment on Regenerative Inhibition of MyoD in Dugesia japonica		
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<b>Student(s)</b>	<b>Brady Jordan</b>	<b>Grade</b> 12	<b>Town</b> Norwalk
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<b>Westport</b>	Greens Farms Academy	Mathieu Freeman	3080	LS	1	Comparative Efficacy of Intravenous vs. Intraosseous Tranexamic Acid in Simulated Hemorrhage and Warfarin-Altered Clotting		
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<b>Student(s)</b>	<b>Dylan Karpf</b>	<b>Grade</b> 9	<b>Town</b> Westport
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\* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

<b>Westport</b>	Greens Farms Academy	Mathieu Freeman	6109	PS	1	Open Alert: A Novel Alert System For School Safety		
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<b>Student(s)</b>	<b>Benjamin Kiev</b>	<b>Grade</b> 9	<b>Town</b> Westport
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\* 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Westport** Greens Farms Academy Mathieu Freeman  
 6086 PS 3 The "Why" Behind the Move: Coding a Sudoku Tutor and Comparing It to an Optimized Solver  
**Student(s) Anthony Low** **Grade 9** **Town Westport**

**Westport** Greens Farms Academy Juli Gerdes  
 3131 LS 3 Investigating Neural Regeneration and Memory Retention in Dugesia Planaria Under Different Light Conditions as a Model for Stroke Recovery  
**Student(s) Halle Monschein** **Grade 12** **Town Norwalk**

**Westport** Greens Farms Academy Mathieu Freeman  
 3115 LS 2 The Influence of Dataset Size and Modality on No-Code AI Accuracy in Benign-Malignant Breast Cancer Classification.  
**Student(s) Tyler Neiva** **Grade 12** **Town Trumbull**

**Westport** Greens Farms Academy Juli Gerdes  
 3192 LS 1 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  
 3154 LS 2 Chemical Detoxification as a Parameter for Assessing the Health of the New Creek Marsh  
**Student(s) Tanvi Rajangam** **Grade 12** **Town Westport**

**Westport** Greens Farms Academy Mathieu Freeman  
 6044 PS 2 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** Greens Farms Academy Julianne Gerdes  
 3040 LS 3 The Psychology of Yondr Pouches and The Impact on Student Well-being  
**Student(s) Amalia Slade** **Grade 12** **Town Westport**

\* American Psychological Association --- Certificate, \$25 gift card given by CSEF

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Westport	Greens Farms Academy	Mathieu Freeman	3016	LS	3	A Data-Driven Evaluation of Behavioral and Dermatologic Factors in Adolescent Skincare Practices in the Context of Social Media Exposure		
			<b>Student(s)</b>		<b>Anika Vaidheeswaran</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Stamford
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Westport	Staples High School	Amy Parent	6023	PS	2	Optimizing Fin Design for a Mars-Launched Rocket Using Open-Source Simulation		
			<b>Student(s)</b>		<b>Anit Arvind</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Westport
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion								
Westport	Staples High School	Amy Parent	6034	PS	2	The Next Frontier: Vision Transformer Versus Convolutional Neural Network Architecture in Exoplanet Transit Classification		
			<b>Student(s)</b>		<b>Serena Diamond</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> Westport
Westport	Staples High School	Amy Parent	6025	PS	2	Evaluation the Therapeutic Potential of Curcumin in Improving Motor Neuron Health in Spinal Muscular Atrophy		
			<b>Student(s)</b>		<b>Sofia DiLeo</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> 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	LS	1	Effect of Coenzyme Q10 and Epigallocatechin Gallate on Alpha-Synuclein Aggregation in Caenorhabditis elegans to Treat Parkinson's Disease		
			<b>Student(s)</b>		<b>Leah Dombrow</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> 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	3068	LS	3	Evaluating Caffeine and the Antioxidant Chlorogenic Acid on Depression in a Drosophila Model		
			<b>Student(s)</b>		<b>Hayley Epstein</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Westport
Westport	Staples High School	Amy Parent	3013	LS	2	The Mechanisms Underlying the Mitigating Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy in C. elegans		
			<b>Student(s)</b>		<b>Nolan Francis</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Westport
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion								

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Westport** Staples High School Amy Parent  
 3139 LS 1 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  
 3077 LS 2 The activation of SKN-1 via the RNAi knockdown of wdr-23 to reduce oxidative stress from microplastics in Caenorhabditis elegans.

**Student(s)** William Kwong **Grade** 11 **Town** Westport

**Westport** Staples High School Amy Parent  
 3190 LS 3 Effect of Stevia on A $\beta$ -Associated Toxicity in Drosophila melongaster

**Student(s)** Ana Losic **Grade** 12 **Town** Westport

**Westport** Staples High School Amy Parent  
 3158 LS 2 Evaluating Toxicity of Natural and Synthetic Dyes in Caenorhabditis elegans: Identifying Safer Options for Consumables

**Student(s)** Vani Punia **Grade** 11 **Town** westport

**Westport** Staples High School Amy Parent  
 3186 LS 1 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 LS 2 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

**Westport** Staples High School Sanjay Ranka  
 6106 PS 3 Lightweight Pill Recognition System with Machine and Deep Learning

**Student(s)** Sahil Vora **Grade** 11 **Town** Westport

**Westport** Staples High School Amy Parent  
 3018 LS 3 Enhancing Superoxide Dismutase Stability Through Synthesis With Mesoporous Silica Nanoparticles Tested in C. elegans to Determine Its Potential Role in Breast Cancer Treatments

**Student(s)** Elise Yan **Grade** 11 **Town** Westport

# Conn. Science & Engineering Fair

## Winning Projects

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Wilton** Middlebrook School Janica Bagosy  
 4016 PT 3 High-Speed Trains: How Maglev and Hyperloop Systems Are Modifying Transportation  
**Student(s)** Miya Bu Grade 8 Town Wilton  
 Jayden Mak Grade 8 Town Wilton

**Wilton** Middlebrook School Janica Bagosy  
 1026 LT 3 How does pH affect plant growth  
**Student(s)** Aishani Dibouliya Grade 8 Town Wilton  
 Julia Zubarev Grade 8 Town Wilton

**Wilton** Middlebrook School Nancy Wakeham  
 4012 PT 1 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

**Wilton** Middlebrook School Jessica Garcia  
 5514 P8 1 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 Nancy Wakeham  
 4003 PT 2 Microplastics in daily life! An experimental study of exposure pathways and filtration solutions.  
**Student(s)** Smruthi Natarajan Grade 7 Town Wilton  
 Penelope Calo Grade 7 Town Wilton

**Wilton** Middlebrook School Janica Bagosy  
 2519 L8 2 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Wilton** Middlebrook School Leah Pariso

4002	PT	2	Dual Axis Automatic Solar Tracker					
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<b>Student(s)</b>	<b>Aarya Patel</b>	<b>Grade 7</b>	<b>Town</b>	Wilton
	<b>Aaryan Patel</b>	<b>Grade 7</b>	<b>Town</b>	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 Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - MS \$100
- \* Dreams Unlimited Award --- \$150 cash award and certificate

**Wilton** Middlebrook School Jessica Garcia

5519	P8	1	How Microplastics in Water Affects Cymatics					
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<b>Student(s)</b>	<b>Jiya Praveen</b>	<b>Grade 8</b>	<b>Town</b>	Wilton
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- \* 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	LT	3	Human Versus Machine: Can Two Kids and a Quantum Computer Beat a "Magic: The Gathering" Professional?					
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<b>Student(s)</b>	<b>Avery Schay</b>	<b>Grade 7</b>	<b>Town</b>	Wilton
	<b>Jack Richardson</b>	<b>Grade 7</b>	<b>Town</b>	Wilton

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

**Wilton** Middlebrook School Janica Bagosy

5525	P8	1	Smart Plant Care: Using Automation and AI					
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<b>Student(s)</b>	<b>Pratap Sharma</b>	<b>Grade 8</b>	<b>Town</b>	Wilton
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- \* 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

**Wilton** Wilton High School Nomita Ramchandani

6026	PS	2	OleoFoam: A Magnetically Controlled Oleophilic Foam for Targeted Oil Absorption					
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<b>Student(s)</b>	<b>Arav Gupta</b>	<b>Grade 10</b>	<b>Town</b>	Wilton
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- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Wilton** Wilton High School Matthew Hoyt  
 6087 PS 2 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 Lili Aramli  
 3116 LS 2 Analysis of CYP2D6 Genetic Variation Using TaqMan qPCR to Predict Drug Metabolizer Phenotype

**Student(s)** Vanessa Bell **Grade** 12 **Town** Windsor

**Windsor** Academy of Aerospace & Engineering Konda Chevva  
 6101 PS 1 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 LS 1 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 Lili Aramli  
 6041 PS 3 Using House Air Filters for Energy Harvesting and Utilization in Everyday Life

**Student(s)** Dylan Gao **Grade** 10 **Town** Coventry

**Windsor** Academy of Aerospace & Engineering Joshua Madore  
 6093 PS 2 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  
 6118 PS 3 Health-Track AI

**Student(s)** Aaditya Sadhvani **Grade** 10 **Town** Ellington

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** Academy of Aerospace & Engineering Lili Aramli  
 6107 PS 2 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 LT 1 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 & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge

**Windsor** Madina Academy Jemilat Salami-Oyenuga  
 1019 LT 1 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** Madina Academy Jemilat Salami-Oyenuga  
 5516 P8 2 Which Popcicle Stick Bridge Holds The Most Weight

**Student(s)** Yusuf Nemlaghi Nemlaghi **Grade** 8 **Town** Windsor

**Windsor** Madina Academy Basma Sallam  
 3508 LST 2 Not All Collagen Concentration Is The Same: A Gel Strength Investigation

**Student(s)** Zaynab Khawaja **Grade** 10 **Town** Agawam

Aleeza Ehmadi **Grade** 10 **Town** Manchester

Noor Hassan **Grade** 10 **Town** Avon

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
 6027 PS 2 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
 6021 PS 2 Generation of a Uniform, Ultra-high Temperature, and Stable Plasma for Material Innovation  
**Student(s)** Ethan Feng **Grade** 11 **Town** South Windsor

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
 3051 LS 1 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 PS 1 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 Fahmeed Sheehan  
 3165 LS 2 Bayesian Optimization Enables Ultra-Rapid and Accurate DNA Detection Using qPCR  
**Student(s)** Ethan Liu **Grade** 10 **Town** Farmington

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
 6116 PS 2 Stair-Climbing Delivery Robot for Medical Logistics in Hospitals  
**Student(s)** Enhua Ma **Grade** 10 **Town** Medina

**Windsor** The Loomis Chaffee School Zhaoyang Huang  
 3071 LS 3 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  
 3024 LS 3 How to Make Extra-curriculum Activities Work: Listening to Student Perspectives on Motivation and Outcomes  
**Student(s)** Calvin Weng **Grade** 11 **Town** New York

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** The Loomis Chaffee School Fahmeed Sheehan

3019	LS	2	Can Dead Bacteria Clean Up Our Gardens? Using EPS-Rich Biomass and Biochar to Lower Soil Lead Below 200 ppm
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**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	PS	1	Designing a Hybrid Ultrasound and Ambient RF Wireless Charging System for a Pacemaker While Minimizing Misalignment Loss
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**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

**Woodbridge** Amity Regional High School Sarah Reeves

6506	PST	2	Real-Time Integration of a Compact Intracranial Pressure (ICP) Sensor to Benchmark NeuroProbe, a Multimodal Brain Monitoring Device, via Arduino-Based Data Translation
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**Student(s)** Akshay Bulsara **Grade 12** **Town** Bethany  
 Jacob Storeygard **Grade 12** **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves

3198	LS	2	Developing a Predictive App for Water Quality: Modeling E. Coli Quantification Through Spatiotemporal Variables
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**Student(s)** Chloe Chang **Grade 11** **Town** Orange

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* University of Connecticut Academic Excellence Scholarship --- University of Connecticut Academic Excellence Scholarship to a rising senior (amount undefined)
- \* 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

**Woodbridge** Amity Regional High School Sarah Reeves

3103	LS	3	Unilateral Leg Press Cross Education Training Effects on Strength, Endurance, and Movement Velocity in Trained Male High School Students
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**Student(s)** Jason Liang **Grade 12** **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves

6024	PS	3	Simulating Droplet Breakup in Obstacle Arrays Using the Deformable Particle Model
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**Student(s)** Nicholas Lu **Grade 12** **Town** Woodbridge

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Woodbridge** Amity Regional High School Sarah Reeves

3180	LS	1	Determining the Accuracy of Biomarker TNF- $\alpha$ in Predicting Ketamine Treatment Outcomes for Veterans with PTSD & MDD
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**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 Sarah Reeves

3081	LS	3	Identifying EEG Markers of Neonatal Hypoxia Through Electroencephalography
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**Student(s)** Ashwin Menon **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves

3174	LS	2	Detecting Psychosis Onset in CHR Individuals Using NLP-Based Speech Transcript Analysis
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**Student(s)** Mihir Nandy **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Lindsay McCarthy

6048	PS	2	Developing a Fast Response Aerosol Optical Depth Monitor for Continuous Information on Ambient Particulate Matter
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**Student(s)** Armaan Shrivastav **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Lindsay McCarthy

6012	PS	2	Developing a Bio-Hybrid Luminescent Solar Concentrator Using Carbon Quantum Dots, Natural Fluorophores, and Kaolin Powder for Enhanced Solar Energy Harvesting
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**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 Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - HS \$200

**Woodbridge** Amity Regional High School Lindsay McCarthy

3127	LS	1	Investigating the Impact of BRCA1/2 Co-Expression Gene Silencing on Chemotherapy Efficacy in Ovarian Cancer
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**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 Sarah Reeves

3047	LS	2	Investigating the Association Between LEPR Expression in Breast Cancer (BC) Tumors with BC Survival, Stratified by Menopausal Status and Age
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**Student(s)** Joseph Vatner **Grade** 12 **Town** Woodbridge

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Woodbridge** Amity Regional High School Lindsay McCarthy  
 3137 LS 1 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** Amity Regional High School Sarah Reeves  
 3145 LS 2 Using Mathematical Algorithms to Optimize the Efficiency of an Inverse Computational Modeling Approach to Uncover how Mutations are Affecting Cardiac Muscle Contraction

**Student(s)** Sage Wong **Grade** 12 **Town** Orange

**Woodbridge** Amity Regional High School Sarah Reeves  
 6077 PS 2 Assessing [OIII] Outflows and Feedback Efficiency in Nearby Type 1 Quasars

**Student(s)** Tony Zhang **Grade** 12 **Town** Woodbridge

**Woodbridge** CT-STEM Foundation Sarah Reeves  
 3171 LS 1 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 Lindsay McCarthy  
 6001 PS 3 Developing a Climate Finance Vulnerability Index for Connecticut to Identify Communities with High Climate Risk and Disproportionately Low Recovery Funding

**Student(s)** Jordan Chen **Grade** 11 **Town** Woodbridge

**Woodbridge** CT-STEM Foundation Lindsay McCarthy  
 6084 PS 3 Developing an Ambient-Light Lock-In UV Fluorescence Imaging System for Enhanced Forensic Evidence Detection

**Student(s)** Emma Imanov **Grade** 11 **Town** Orange

**Woodbridge** CT-STEM Foundation Christine Leventhal  
 3153 LS 1 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