



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 4 - 16, 2024

### 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)
Avon	Avon High School	John Salerni	3508	LST	2	Defining the Significance of Inflammation in Atherosclerosis by Examining Cross-Cohort Transcriptomics Using R and Deep Learning Programs		
		<b>Student(s)</b> Phydena Liu					<b>Grade</b> 10	<b>Town</b> Avon
		Lauren Zhang					<b>Grade</b> 11	<b>Town</b> Darien

\* CSEF Board of Directors Award --- Certificate and \$200 given by CSF

Avon	Talcott Mountain Academy	John Pellino	5009	P7	1	The Aura Project: Landing Rockets at a Model Scale		
		<b>Student(s)</b> Kwabena Addai - Boateng					<b>Grade</b> 8	<b>Town</b> East Hartford

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* U.S. Air Force --- Certificate & USAF Merchandise Package
- \* Christopher T. Borowiec Excellence in Innovation Awards --- \$100 Cash for Excellence in Planetary Science

Avon	Talcott Mountain Academy	Brigette Zacharczenko	2515	L8	3	Sea Life: Looking Into the Future		
		<b>Student(s)</b> Maqueda Green					<b>Grade</b> 8	<b>Town</b> Bloomfield

Avon	Talcott Mountain Academy	Brigette Zacharczenko	2502	L8	1	Reducing the Waste of Polyethylene Plastic by Galleria mellonella		
		<b>Student(s)</b> Yveson Hsiao					<b>Grade</b> 8	<b>Town</b> Farmington

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place MS- \$200, Trophy

Avon	Talcott Mountain Academy	John Pellino	2520	L8	1	The Boreabrush		
		<b>Student(s)</b> Oliver Lind					<b>Grade</b> 8	<b>Town</b> Harwinton

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation

Avon	Talcott Mountain Academy	Brigette Zacharczenko	2509	L8	1	Will Roaches Direct Other Roaches to Food?		
		<b>Student(s)</b> Talia McKeen					<b>Grade</b> 8	<b>Town</b> West Granby

- \* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Avon	Talcott Mountain Academy	John Pellino	5003	P7	3	GER - Green Energy Reminder		
					<b>Student(s)</b> Arya Samat	<b>Grade</b> 7	<b>Town</b> Avon	
Bethel	Bethel High School	Raymond Turek	3001	LS	2	The Effect of Red Light and Aloe Ferox Concentrations on Planarian Regeneration in the Presence of Fresh Spring Water		
					<b>Student(s)</b> Nushreth Bhuiyan	<b>Grade</b> 12	<b>Town</b> Bethel	
Bethel	Bethel High School	Raymond Turek	3087	LS	3	How does pesticides affect a plants growth?		
					<b>Student(s)</b> Alessandra Campolo	<b>Grade</b> 12	<b>Town</b> Bethel	
Bethel	Bethel High School	Raymond Turek	3116	LS	2	The Effect of Disinfecting UVC Light Exposure on Bacteria Content, Transparency and Flexibility of Soft Contact Lens vs. the use of Standard Multi-Purpose Cleansing Solution.		
					<b>Student(s)</b> Zoe Demo	<b>Grade</b> 12	<b>Town</b> Bethel	
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion								
Bethel	Bethel High School	Raymond Turek	3067	LS	3	Developing a Machine-Learning Based Algorithm regarding Genetic Analysis to Analyze the Genes That Initiate the Thymus Involution.		
					<b>Student(s)</b> Srirama Desiraju	<b>Grade</b> 10	<b>Town</b> Bethel	
Bethel	Bethel High School	Raymond Turek	6095	PS	2	Using Convolutional Neural Networks to Classify Mars Imagery taken by the HiRISE Camera		
					<b>Student(s)</b> Aarush Doshi	<b>Grade</b> 11	<b>Town</b> Bethel	
Bethel	Bethel High School	Raymond Turek	6007	PS	2	The Most Efficient Material To Use For A 3D Printed Shoe.		
					<b>Student(s)</b> Jack Ginin	<b>Grade</b> 11	<b>Town</b> Bethel	
Bethel	Bethel High School	Raymond Turek	3092	LS	2	Optimizing Establishment and Germination of Glycine Max (Soybean) Seedlings Using Biochar and Bacillus Megaterium Seed Coating		
					<b>Student(s)</b> Juliana Habshey	<b>Grade</b> 12	<b>Town</b> Bethel	
Bethel	Bethel High School	Raymond Turek	3028	LS	2	How the Size of Holes Within a Rubber Mesh Affects the Ability of Emerald Ash Borer Beetles to Penetrate Ash Tree's Bark.		
					<b>Student(s)</b> Seamus Knauff	<b>Grade</b> 10	<b>Town</b> Woodbury	

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

**Bethel** Bethel High School Raymond Turek  
 6056 PS 2 Properties of Ferrofluids  
**Student(s) Preethika Shenoy** **Grade 10** **Town Bethel**

**Bethel** Bethel High School Raymond Turek  
 3047 LS 2 Measuring the Correlation between Air Quality and Respiratory Diseases  
**Student(s) Jackson Sorbello** **Grade 11** **Town Bethel**

**Bethel** Bethel High School Raymond Turek  
 3058 LS 2 Determining How Different Factors Correlate To Amount Of Sleep  
**Student(s) Niamh Spellman** **Grade 12** **Town Bethel**

**Bethel** Bethel High School Raymond Turek  
 6090 PS 1 Investigating the Usage of Computer Microstructure Generation Techniques in the Synthesis of Novel Scale Independent Structures  
**Student(s) Christopher Zuraw** **Grade 11** **Town Bethel**

\* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

**Bozrah** Fields Memorial School Josh Fish  
 5513 P8 2 How will temperature affect the mass that a helium balloon can lift?  
**Student(s) Kallie Bitgood** **Grade 8** **Town Bozrah**

\* M&T Bank Mathematics Awards --- 2nd Place Middle School- \$200 and Trophy  
 \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy  
 \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Bozrah** Fields Memorial School Josh Fish  
 1018 LT 2 What Types of Locations Produce the Highest Bacterial Colony Counts at our Local Elementary School?  
**Student(s) Hannah East** **Grade 7** **Town Bozrah**  
**Serena BunkerCai** **Grade 7** **Town Bozrah**

**Bozrah** Fields Memorial School Joshua Fish  
 4013 PT 1 Oxidation rates of different metals in various liquids and temperatures.  
**Student(s) Elise Kobelski** **Grade 7** **Town Bozrah**  
**Benjamin Savoie** **Grade 7** **Town Bozrah**

\* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences MS Team- trophy  
 \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Bozrah** Fields Memorial School Joshua Fish  
 5002 P7 2 How do variables affect the enzyme activity and production of gas in elephant toothpaste?  
**Student(s) Luisyariel Mercado** **Grade 7** **Town Bozrah**

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

**Bridgeport** Bassick High School Patricia Pappas  
 6022 PS 2 Making Clothes Fire-Retardant  
**Student(s)** Darla Viguilla **Grade** 11 **Town** Bridgeport

**Bridgeport** Blackham School Nancy Hovanec  
 4002 PT 2 Hovercraft The New Transportation  
**Student(s)** Sebastian Suarez **Grade** 7 **Town** Bridgeport  
 Jayden Perez **Grade** 7 **Town** Bridgeport

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

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3015 LS 1 Non-Thermal Induction of Heat Shock Protein 90 to Mitigate Early Oncogenesis With Preserved HSR  
**Student(s)** Chloe Atkins **Grade** 12 **Town** Stratford

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3123 LS 2 Development of a Unique Carrageenan Based Matrix to Mitigate Hemorrhagic Trauma  
**Student(s)** Camila Borjas **Grade** 12 **Town** Bridgeport

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6046 PS 2 The Analysis of Different Methods on Biochar's Compacity to Pick up Heavy Metals  
**Student(s)** Sophia Clark **Grade** 12 **Town** Monroe

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3027 LS 1 Using an Experimental Algorithm to Detect Stress in Homarus americanus in Aquaculture  
**Student(s)** Eden Cunningham **Grade** 12 **Town** Southport

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$200 / plaque

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6080 PS 3 Using Ozone-Based Oxidation for Pesticide Detoxification in Aquatic Environments  
**Student(s)** Aiden Deutsch **Grade** 12 **Town** Fairfield

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	6060	PS	2	Magnetohydrodynamic (MHD) Salt Water Generator: Harnessing energy from flowing salt water without moving parts		
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**Student(s)** Samuel DiVasto **Grade 12** **Town** Trumbull

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

<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	6030	PS	1	Using Sodium Alginate Derived Porous Carbon Material to Increase Capacitance of a Cellulose Matrix		
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**Student(s)** Isabella E Silva **Grade 12** **Town** Bridgeport

\* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

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

<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	6070	PS	2	Synthesis of Conductive Optical Lenses with Variable Refractive Indices: The Kerr Effect		
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**Student(s)** Cole Galla **Grade 12** **Town** Trumbull

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

\* Connecticut Association of Physics Teachers --- \$100 Senior project

<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	6065	PS	2	Ferric Modified Bamboo Biochar as a Passive Lead (Pb) Remediation Tool in Contaminated Coastal Wetland Sediment		
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**Student(s)** Keller Hall **Grade 12** **Town** Monroe

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

<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	3110	LS	2	An Analysis of Flavonoids as a Relative Preventative Measure for Basal and Squamous Cell Carcinomas		
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**Student(s)** Eliana Howard **Grade 12** **Town** Trumbull

<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	3077	LS	1	Utilizing Fucus distichus alginates to develop an enhanced aerosol treatment for Cystic Fibrosis		
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**Student(s)** Mia Nierenberg **Grade 12** **Town** Stratford

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

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

\* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Life Sciences

<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	6075	PS	2	Identifying Bias in the American Psyche		
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**Student(s)** Dylan Padua **Grade 12** **Town** Stratford

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

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3102 LS 1 Engineering of a Soybean oil-based natural clothing dye

**Student(s)** Alana Reyes **Grade** 12 **Town** Trumbull

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3134 LS 2 Acoustic Noise Pollution Affecting Reproduction, Communication, and Behavior of Brine Shrimp

**Student(s)** Anne Taylor **Grade** 12 **Town** Fairfield

- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* Bushnell Center for Performing Arts --- Pair of Tickets to Illuminate Dance - for top project involving technology and lights for Arts Applications, if possible

**Bridgeport** Fairchild Wheeler Aerospace / Hydrospace Paul Bergquist  
 3063 LS 3 Clean The Waters

**Student(s)** Even Gebretinsae **Grade** 10 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Biotechnology Kirk Shadle  
 3514 LST 2 The Mozart Effect

**Student(s)** Nicole Guzman **Grade** 10 **Town** Bridgeport  
 Ashley Cajilima **Grade** 10 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Biotechnology Lucien Bouffard  
 3075 LS 2 Light Levels of Dinoflagellates Due to Climate Change

**Student(s)** Kathleen Parkin **Grade** 9 **Town** redding

**Bridgeport** Fairchild Wheeler Biotechnology Cynthia Crudale  
 3069 LS 2 Shoots vs. Roots: The Effect of Hormone Treated Media on Lettuce Growth

**Student(s)** Naomi Rosen **Grade** 12 **Town** Fairfield

- \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest

**Bridgeport** Fairchild Wheeler Biotechnology Marilyn Carolina  
 3520 LST 2 Testing the Efficacy of Biochar Source Materials in Filtering Heavy Metal Pollution from the Housatonic River in CT

**Student(s)** Angeline Tran **Grade** 12 **Town** Shelton  
 Phi Uanino **Grade** 12 **Town** Shelton

- \* CSEF Board of Directors Award --- Certificate and \$200 given by CSF

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

**Bridgeport** Fairchild Wheeler Information Tech and Software Ricki Chiem  
 3515 LST 2 The Great Rooftop Garden Experiment  
**Student(s)** Jessica Laguerre **Grade 9** **Town** Ansonia  
 Marlie Lackran **Grade 9** **Town** Stratford  
 Thor Atkins **Grade 9** **Town** Seymour

**Bridgeport** Geraldine Johnson School Kelly Mulligan  
 1009 LT 3 Can you detect Artificial Intelligent generated Text from Human Generated Text?  
**Student(s)** Angelica Philogene **Grade 8** **Town** bridgeport  
 Kee'maja Lilley **Grade 8** **Town** Bridgeport

- \* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place Middle School - \$100, Trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

**Bridgeport** Jettie S. Tisdale Kathryn Cunningham  
 1024 LT 2 Brain Timing  
**Student(s)** Juliette Medina-Calderon **Grade 7** **Town** Bridgeport  
 DaHanne Gilmore **Grade 7** **Town** Bridgeport  
 Ma'Shirah Profit **Grade 7** **Town** Bridgeport

**Bridgeport** Jettie S. Tisdale Frances Morra  
 4018 PT 3 Which Will It Be?  
**Student(s)** Kayla Noel **Grade 8** **Town** Bridgeport  
 Jelajah Williams **Grade 8** **Town** Bridgeport

**Bridgeport** John Winthrop Srilakshmi Kongani  
 4003 PT 3 The Pinwheel Problem  
**Student(s)** Fernando Marin **Grade 8** **Town** Bridgeport, CT  
 Pandora Nguyen **Grade 8** **Town** Bridgeport, CT

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist - Medallion

**Bridgeport** Waltersville School John Cunningham  
 1012 LT 2 Do Plants Absorb Acidic Precipitation?  
**Student(s)** Samuel Borjas **Grade 8** **Town** Bridgeport  
 Isaiah Mendenhall **Grade 8** **Town** Bridgeport

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Bridgeport</b>	Waltersville School	John Cunningham	4008	PT	2	Does Municipal/Household Infrastructure Affect the Quality of Drinking Water in Bridgeport, CT?		
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<b>Student(s)</b>	<b>Andrea Villatoro</b>	<b>Grade 7</b>	<b>Town</b>	Bridgeport
	<b>Genesis Reilly</b>	<b>Grade 7</b>	<b>Town</b>	Bridgeport

\* Aquarion Water Company --- 2nd. \$100.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

<b>Bristol</b>	St. Matthew School	Danielle Persichetti	5004	P7	2	Which Drink Has the Most Electrolytes?		
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<b>Student(s)</b>	<b>Lily Chou</b>	<b>Grade 7</b>	<b>Town</b>	Bristol
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\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion  
 \* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100

<b>Bristol</b>	St. Matthew School	Danielle Persichetti	2002	L7	1	Which Moisturizer is Best?		
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<b>Student(s)</b>	<b>Lauren Gillis</b>	<b>Grade 7</b>	<b>Town</b>	Bristol
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\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion  
 \* Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy  
 \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

<b>Brookfield</b>	Brookfield High School	Jonathan Neuhausel	3088	LS	2	Genex: A Novel Computational Tool for Optimizing Transcription Factor Combinations for Increased Efficiency and Specificity in Cellular Conversion		
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<b>Student(s)</b>	<b>Diya Girish Kumar</b>	<b>Grade 12</b>	<b>Town</b>	Brookfield
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<b>Brookfield</b>	Brookfield High School	Jonathan Neuhausel	6048	PS	2	Single Cell Multi-omics Analysis of Glioblastoma: Identification of Differently Expressed Genes and Diagnosis of Isocitrate Dehydrogenase Mutants		
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<b>Student(s)</b>	<b>Shriya Jonnalagadda</b>	<b>Grade 12</b>	<b>Town</b>	Brookfield
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\* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

<b>Brookfield</b>	Brookfield High School	Jonathan Neuhausel	6077	PS	3	GeoCool: A Novel Approach to Sustainable Residential Cooling Using Underground Soil Temperatures		
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<b>Student(s)</b>	<b>Arjun Parimi</b>	<b>Grade 11</b>	<b>Town</b>	Brookfield
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\* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project

<b>Cheshire</b>	Cheshire High School	Julie Barker	6104	PS	3	Patient Appointment Preparation Tool		
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<b>Student(s)</b>	<b>Lekhan Nair</b>	<b>Grade 9</b>	<b>Town</b>	Cheshire
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[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Cheshire** Cheshire High School Julie Barker  
 6045 PS 2 A Torticollis Tilt Alerting Device using MPU6050 Sensor, Vibration motor, and iOS and Android App Built Using Flutter

**Student(s)** Suchita Srinivasan **Grade** 10 **Town** Cheshire

- \* Infosys Foundation Computer Science Awards --- 2nd Place High School - \$300, Plaque
- \* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100
- \* Dreams Unlimited Award --- \$150 cash award and certificate
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

**Cheshire** Dodd Middle School Katie Kearney  
 5509 P8 3 The Irrigator- a sustainable solution for gardening

**Student(s)** Olivia Dixon **Grade** 8 **Town** Cheshire

- \* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

**Danbury** Saint Gregory the Great School Christine Fahey  
 2519 L8 3 Magic Mushrooms... from an Environmental Perspective

**Student(s)** Claire Calomeni **Grade** 8 **Town** Danbury

**Danbury** Saint Gregory the Great School Christine Fahey  
 2508 L8 3 Can AI Learn to Solve a Maze?

**Student(s)** Ethan Lambert **Grade** 8 **Town** Danbury

**Danbury** Saint Gregory the Great School Christine Fahey  
 1003 LT 2 Terra-fic Battery

**Student(s)** Liam Layog **Grade** 7 **Town** Danbury  
 Gabriel Santos **Grade** 7 **Town** Danbury

**Danbury** Saint Gregory the Great School Christine Fahey  
 5019 P7 1 The Fastest Way to Solve a Rubik's Cube

**Student(s)** Leonardo Lazzara **Grade** 7 **Town** Brookfield

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

**Danbury** Saint Gregory the Great School Christine Fahey  
 5011 P7 3 Battery Marathon

**Student(s)** Eden Virtudes **Grade** 7 **Town** danbury

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

1008	LT	1	Air Purifier that Effectively Removes Air Toxins - PM 2.5 and Formaldehyde					
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<b>Student(s)</b>	<b>Arlis Arias-Paulino</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Sivayazhini Sivasundar</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Kuhutan Roy</b>	<b>Grade 8</b>	<b>Town</b>	Danbury

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences MS Team- \$100 each & trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place Middle School - Trophy, Medallion
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

**Danbury** Westside Middle School Academy Nancy Barlow

1025	LT	1	The Effect of Different Types of Grass on Soil Erosion					
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<b>Student(s)</b>	<b>Sayam Dand</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Kylie Capone</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Ayme Calero</b>	<b>Grade 8</b>	<b>Town</b>	danbury

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* Geology/Historic Project of Merit Award --- \$150 or 3 x \$50 - Earth Science - Field work with Geologic or historic value

**Danbury** Westside Middle School Academy Nancy Barlow

2518	L8	2	The Effect of Different Substrates on the Growth of Mycelium					
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<b>Student(s)</b>	<b>Milana Lenz</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
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- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Danbury** Westside Middle School Academy Nancy Barlow

4007	PT	1	The Effectiveness of Different Distillation Methods for Desalination					
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<b>Student(s)</b>	<b>Siddanth Ramakrishnan</b>	<b>Grade 7</b>	<b>Town</b>	Danbury
	<b>Patrick Madden</b>	<b>Grade 7</b>	<b>Town</b>	Danbury

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering - Middle School

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

**Danbury** Westside Middle School Academy Nancy Barlow

4012	PT	2	Building a Versatile Air Sensor That Can Detect PM10 & PM2.5 in the Air
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<b>Student(s)</b>	<b>Sarvesh Ram Sankarnarayan</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Gabrielle Anderson</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Eleftherios Amperidis</b>	<b>Grade 8</b>	<b>Town</b> Danbury, Ct

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- \* ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- \* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

**Danbury** Westside Middle School Academy Nancy Barlow

1013	LT	3	Homemade Fertilizer's Affect on Plant Growth
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<b>Student(s)</b>	<b>Ishita Shiralkar</b>	<b>Grade 7</b>	<b>Town</b> Danbury
	<b>Ava Zaloski</b>	<b>Grade 7</b>	<b>Town</b> Danbury
	<b>Izel Diaz</b>	<b>Grade 7</b>	<b>Town</b> Danbury

**Danbury** Westside Middle School Academy Nancy Barlow

1019	LT	2	The Effects of Different Water Plants on Nitrate Water Levels
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<b>Student(s)</b>	<b>Samantha Suda</b>	<b>Grade 8</b>	<b>Town</b> danbury
	<b>Sarah Pacheco</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Chelsea Dodoo</b>	<b>Grade 8</b>	<b>Town</b> danbury

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

**Danbury** Westside Middle School Academy Nancy Barlow

1004	LT	2	How Does Temperature Affect How Bright Bioluminescent Plankton Glow?
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<b>Student(s)</b>	<b>Montana Urban</b>	<b>Grade 7</b>	<b>Town</b> Danbury
	<b>Sebastian Madera-Guridy</b>	<b>Grade 7</b>	<b>Town</b> Danbury
	<b>Erin George</b>	<b>Grade 7</b>	<b>Town</b> Danbury

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

**Danbury** Westside Middle School Academy Nancy Barlow

4023	PT	2	How do Different Strength Magnets Affect a Phone's Charging Speed
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<b>Student(s)</b>	<b>Kylie Wilson</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Caleb Lopes</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Carmelo McCollough</b>	<b>Grade 8</b>	<b>Town</b> Danbury

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion

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

**Danbury** Wooster Brian Sullivan  
 6094 PS 2 Building an app to diagnosis Lung Cancer through the use of introducing an nth-linearity term in a Weight Dimensionality Reduction Neural Network with Random Forest Classification.  
**Student(s) Alejandro Mayorga** **Grade 9** **Town Danbury**

**Darien** Darien High School Hunter King  
 6101 PS 2 Mechanistic Analysis of the Driving Factors for Ventilation Dynamics within Macrotermes Michaelseni Termite Nests  
**Student(s) Lucas Meier** **Grade 12** **Town Darien**

**Darien** Darien High School David Lewis  
 3108 LS 2 The Economic Efficacy of Various Algae Strains for Biofuel Production  
**Student(s) Steven Olvany** **Grade 12** **Town Darien**

**Darien** Darien High School Christine Leventhal  
 6082 PS 1 Simulating CMB temperature signal to analyze the effects of noise  
**Student(s) Bo-Jun Qin** **Grade 12** **Town Darien**

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, \$100 Cash

**Darien** Darien High School Guy Pratt  
 6064 PS 3 An Investigation of Stone Reusual Construction Techniques Used in the Anasazi Community From 800 -1200 AD In Southwestern United States Based on Stone Length-Width Ratios  
**Student(s) Evelyn Trudel** **Grade 12** **Town Darien**

- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Amazon Gift Ccard from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Sustainability.

**East Lyme** East Lyme High School Cecilia Prytko  
 6514 PST 2 Job, Internship and Program Opportunities App  
**Student(s) Jessica Joe** **Grade 10** **Town East Lyme**  
**Sophia Joe** **Grade 10** **Town East Lyme**

**Ellington** Ellington High School David Gerlach  
 6074 PS 2 Developing an Adaptable Metal Casting Mold Using Soft Robotics  
**Student(s) Thomas Gerlach** **Grade 9** **Town Ellington**

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

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

**Enfield** Chiaravalle Academy Tim Coleman  
 1016 LT 3 To see how much bread mold grows on different types of bread and how long it will take.  
**Student(s)** Andrew Banker Grade 7 Town Wilbraham  
 Grant Kelly Grade 7 Town Enfield  
 Tristan Mroz Grade 7 Town broad brook

**Enfield** Chiaravalle Academy Tim Coleman  
 1011 LT 2 Do Energy Drinks Affect the Growth of Microbes?  
**Student(s)** Delanie Bernier Grade 7 Town Chicopee  
 Lia Vidal Grade 7 Town Enfield  
 Waverly Goodman Grade 7 Town Suffield

**Enfield** Chiaravalle Academy Tim Coleman  
 1021 LT 3 Bamboos growth in varying soils and water levels.  
**Student(s)** Mason Cerkanowicz Grade 8 Town Suffield, CT  
 Shiv Patel Grade 8 Town Longmeadow Mass

**Enfield** Chiaravalle Academy Tim Coleman  
 4022 PT 2 Using Solar to Generate Electricity.  
**Student(s)** Keenan Cieslak Grade 8 Town Monson  
 Beau Dugas Grade 8 Town Enfield  
 Michael Bielanski Grade 8 Town Enfield

\* Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion  
 \* EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy  
 \* IEEE, Connecticut Section --- \$100 Honorable Mention

**Enfield** Chiaravalle Academy Timothy Coleman  
 4005 PT 3 The effects of 5g on yeast cells.  
**Student(s)** Jayden Eldridge Grade 8 Town Somers  
 Alana Tucker Grade 8 Town Somers

**Enfield** Chiaravalle Academy Timothy Coleman  
 4010 PT 2 What type of salt is best used to melt ice?  
**Student(s)** Misha LaCroix Grade 8 Town Enfield  
 Kayla Cupillo Grade 8 Town Suffield  
 Noah Bohonowicz Grade 8 Town Somers

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

**Enfield** Chiaravalle Academy Tim Coleman  
 1006 LT 2 Plants vs. Wildfires

<b>Student(s)</b>	<b>Megan Quinby</b>	<b>Grade 7</b>	<b>Town</b> Windsor
	<b>Arianna Plaz</b>	<b>Grade 7</b>	<b>Town</b> Suffield
	<b>Antonina Borodii</b>	<b>Grade 7</b>	<b>Town</b> Enfield

\* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion  
 \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Enfield** Chiaravalle Academy Timothy Coleman  
 1026 LT 1 How Does Different Types of Food Affect A Chicks' Growth and Learning Ability?

<b>Student(s)</b>	<b>Zoha Shamsi</b>	<b>Grade 7</b>	<b>Town</b> Suffield
	<b>Leah Caswell</b>	<b>Grade 7</b>	<b>Town</b> Enfield
	<b>Marin Czerwec</b>	<b>Grade 7</b>	<b>Town</b> Agawam

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion  
 \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy  
 \* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

**Enfield** Chiaravalle Academy Tim Coleman  
 1002 LT 2 Essential Oil's

<b>Student(s)</b>	<b>Noah Wyse</b>	<b>Grade 8</b>	<b>Town</b> Broad Brook
	<b>Caden Young</b>	<b>Grade 7</b>	<b>Town</b> Suffield

**Fairfield** Fairfield Ludlowe High School Rekha Pappalavenkatramana  
 6024 PS 2 Harnessing Renewable Wind Energy Induced by Trains by Developing a Quadrant Wind Tunnel with Miniature Rotors to Decrease Consumption of Fossil Fuels

<b>Student(s)</b>	<b>Samhitha Kunichetty</b>	<b>Grade 11</b>	<b>Town</b> Fairfield
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**Fairfield** Fairfield Warde High School Ryan Gleason  
 3518 LST 2 The Effects of Golf Course Runoff on Rooster River

<b>Student(s)</b>	<b>Calista Gleason</b>	<b>Grade 9</b>	<b>Town</b> Fairfield
	<b>Emma Speicher</b>	<b>Grade 9</b>	<b>Town</b> Fairfield

**Fairfield** Fairfield Woods Middle School Michael Sgoutas  
 4021 PT 1 Automotive CO2 Emissions Bio-Filtration System

<b>Student(s)</b>	<b>Alexander Majewski</b>	<b>Grade 7</b>	<b>Town</b> Fairfield
	<b>Parshwa Shah</b>	<b>Grade 7</b>	<b>Town</b> Fairfield

\* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion  
 \* Pepsico Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy

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

**Farmington** Farmington High School Alexandra Raymunt

6054 PS 1 Steeping Towards Safety: Addressing Mycotoxin Risks in Coffee and Tea

**Student(s)** Rhea Doshi **Grade** 9 **Town** Farmington

- \* Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest

**Farmington** Farmington High School Alexandra Raymunt

3511 LST 2 The impact of different levels of spf on the pigmentation of one's skin

**Student(s)** Lauren Jeong **Grade** 11 **Town** Farmington  
 Lydia Kim **Grade** 11 **Town** Farmington

- \* CSEF Board of Directors Award --- Certificate and \$200 given by CSF

**Farmington** Farmington High School Alexandra Raymunt

3091 LS 2 Identifying a novel biomarker for liver cancer through an extensive search of open sources and existing articles. I plan to verify its viability with an expert.

**Student(s)** Rohith Lanka **Grade** 11 **Town** Unionville

**Farmington** Farmington High School Alexandra Raymunt

6068 PS 1 Origami-Inspired Paper-Based Multiplex Device for Water Contamination Monitoring

**Student(s)** Jiayi Liu **Grade** 11 **Town** Farmington

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award
- \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Senior
- \* Aquarion Water Company --- 3rd \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environment Management
- \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project

**Farmington** Farmington High School Alexandra Raymunt

3532 LST 2 The Efficiency of Electrolytes in Athletic Performance

**Student(s)** Kashvi Madhwani **Grade** 11 **Town** Farmington  
 Alison Rodriguez **Grade** 11 **Town** Farmington

**Farmington** Farmington High School Xiaodi Wang

3100 LS 1 Optimizing the LSTM Deep Learning Model for Arctic Sea Ice Melting Prediction

**Student(s)** Victoria Pegkou Christofi **Grade** 12 **Town** Unionville

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* M&T Bank Mathematics Awards --- 2nd Place High School- \$300 and Plaque

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Farmington</b>	Farmington High School	Alexandra Raymunt	3528	LST	2	Human Recognition of Chat GPT's AI Generated Text		
		<b>Student(s)</b> Selina Shi					<b>Grade</b> 11	<b>Town</b> Farmington
		John Zhang					<b>Grade</b> 11	<b>Town</b> Farmington
<b>Farmington</b>	Farmington High School	Alexandra Raymunt	3521	LST	3	Enhancing Enzyme Activity: Exploring the Impact of Natural Inhibitors		
		<b>Student(s)</b> Gabriella Tycz					<b>Grade</b> 11	<b>Town</b> Unionville
		alexandra urbanowicz					<b>Grade</b> 11	<b>Town</b> farmington
<b>Farmington</b>	Miss Porter's School	Christine Scanlon	3529	LST	2	Variation of classroom temperature settings in relation to student's reaction time		
		<b>Student(s)</b> June Liu					<b>Grade</b> 11	<b>Town</b> New York City
		Tingjia Shi					<b>Grade</b> 10	<b>Town</b> Farmington
<b>Farmington</b>	Miss Porter's School	Christine Scanlon	3105	LS	1	Testing Prevalence of Bacteria Resistant to Tetracycline, Sulfamethoxazole, and Chloramphenicol Antibiotics in Hotspot Connecticut Environments		
		<b>Student(s)</b> Sophia Pidvysotski					<b>Grade</b> 12	<b>Town</b> Hartford
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$300 / plaque								
<b>Farmington</b>	Miss Porter's School	Christine Scanlon	6059	PS	2	How to modify starch-based bioplastic to reduce its ecotoxicity?		
		<b>Student(s)</b> Anqi Shi					<b>Grade</b> 12	<b>Town</b> New Canaan
<b>Glastonbury</b>	Glastonbury High School	Diane Pintavalle	6023	PS	2	ROLE OF GRAVITY IN OXYGEN GAS REMOVAL IN POLYMER ELECTROLYTE MEMBRANE WATER ELECTROLYZERS		
		<b>Student(s)</b> James Hall					<b>Grade</b> 11	<b>Town</b> Glastonbury
* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion								
<b>Glastonbury</b>	Glastonbury High School	Diane Pintavalle	3073	LS	2	HOW DO PHLOEM-FEEDING HERBIVORES SUPPRESS THE PARASITISM OF CATERPILLARS ON Quercus alba?		
		<b>Student(s)</b> Anna Hilary					<b>Grade</b> 12	<b>Town</b> Glastonbury
<b>Glastonbury</b>	Glastonbury High School	Stephen Falcigno	3086	LS	2	Prediction of Non-B DNA Structure using PacBio Sequencing Interpulse Durations		
		<b>Student(s)</b> Naavya Jain					<b>Grade</b> 11	<b>Town</b> Glastonbury



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

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3005 LS 2 PREDICTING DNA METHYLATION BASED ON NANOPORE TRANSLOCATION TIME  
**Student(s)** Aarav Mehta **Grade** 11 **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 6069 PS 2 THE SUB-DIURNAL FLUCTUATIONS IN THE ISOTOPIC COMPOSITION OF XYLEM WATER IN DECIDUOUS TREES  
**Student(s)** Kiernan Tierney **Grade** 12 **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3066 LS 1 Proteomic Analysis of Autism-Associated Variants in Human ASPM Gene  
**Student(s)** Presthika Vijaykumar **Grade** 11 **Town** Glastonbury

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

**Greenwich** Brunswick School Dana Montanez  
 6015 PS 2 Inertial Navigation Control System: Use of Reaction Wheels as an in-flight Steering Mechanism for Rockets  
**Student(s)** Thomas Armstrong **Grade** 11 **Town** Greenwich

- \* M&T Bank Mathematics Awards --- 1st Place High School- \$500 and Plaque
- \* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- \* U.S. Air Force --- Certificate & USAF Merchandise Package
- \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- \* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation

**Greenwich** Brunswick School Dana Montanez  
 6522 PST 1 The Efficiency of Toroidal Propellers on Plane Engines and Boat Propellers  
**Student(s)** Thomas Carney **Grade** 10 **Town** New Canaan  
 Pierce Crosby **Grade** 10 **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- \* Vanderbilt Chemicals, LLC --- \$150 Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication
- \* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award

**Greenwich** Brunswick School Dana Montanez  
 6073 PS 3 Repurposing Agave Waste through the Creation of a Biodegradable Polymer  
**Student(s)** Jackson Cunningham **Grade** 10 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
 6003 PS 2 Removal of Aquatic Micro Pollutants Using Functionalized Nanoparticles of Iron-Oxide  
**Student(s)** Jack Degl **Grade** 11 **Town** Mahopac

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - 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	3507	LST	2	Using Mineral Packed Liposomes to Increase Plant Growth in Arid Environments		
<b>Student(s)</b>					<b>Henry Johnson</b>	<b>Grade 11</b>	<b>Town</b> Riverside	
					<b>Tucker Spiess</b>	<b>Grade 11</b>	<b>Town</b> Old Greenwich	

\* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest

<b>Greenwich</b>	Brunswick School	Dana Montanez	3531	LST	3	Isolation and Recombination of Woodylide Compounds from the Sea Sponge Plakortis Simplex For Use as an Organic Antifungal Agent		
<b>Student(s)</b>					<b>George Kapp</b>	<b>Grade 10</b>	<b>Town</b> Greenwich	
					<b>Neel Behringer</b>	<b>Grade 10</b>	<b>Town</b> Greenwich	

<b>Greenwich</b>	Brunswick School	Dana Montanez	3519	LST	2	Selective Weed Extermination using a Conductive Device		
<b>Student(s)</b>					<b>Nikolai Krause</b>	<b>Grade 10</b>	<b>Town</b> Greenwich	
					<b>Henry Mayerfield</b>	<b>Grade 10</b>	<b>Town</b> Scarsdale	

<b>Greenwich</b>	Brunswick School	Dana Montanez	3085	LS	1	Chlorophyll's Reflection of Infrared Light as a Method to Determine Overall Health of Phaseolus vulgaris and Solanum lycopersicum		
<b>Student(s)</b>					<b>Max Lanson</b>	<b>Grade 10</b>	<b>Town</b> New Canaan	

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

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

<b>Greenwich</b>	Brunswick School	Dana Montanez	3513	LST	2	The Impact of Ocean Acidification on Photosynthetic Rates of Rhodomonas salina and Amphidinium		
<b>Student(s)</b>					<b>Eric Lorenz</b>	<b>Grade 11</b>	<b>Town</b> Greenwich	
					<b>Ryan Ahn</b>	<b>Grade 11</b>	<b>Town</b> White Plains	

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

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

<b>Greenwich</b>	Brunswick School	Dana Montanez	6510	PST	2	Biodegradable Mylar: A Materials Investigation to Reduce Marine Life Fatalities.		
<b>Student(s)</b>					<b>Sean Mensi</b>	<b>Grade 9</b>	<b>Town</b> Katonah	
					<b>Lincoln O'Donohue</b>	<b>Grade 10</b>	<b>Town</b> Old Greenwich	

\* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Greenwich</b>	Brunswick School	Dana Montanez	3525	LST	2	Utilizing Beneficial Microorganisms to Prevent Coral Bleaching and Enhance Coral Recovery		
<b>Student(s)</b>					<b>William Nook</b>	<b>Grade 11</b>	<b>Town</b> Greenwich	
					<b>Grayson O'Hara</b>	<b>Grade 11</b>	<b>Town</b> Rye	
					<b>Jack Sieg</b>	<b>Grade 11</b>	<b>Town</b> Greenwich	

<b>Greenwich</b>	Brunswick School	Dana Montanez	6516	PST	2	Water Testing with Ease: Creation of a handheld device for Water Analysis in Recently Flooded Areas.		
<b>Student(s)</b>					<b>William Pallone</b>	<b>Grade 10</b>	<b>Town</b> Rye	
					<b>Townsend Bancroft</b>	<b>Grade 10</b>	<b>Town</b> Greenwich	

- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* Aquarion Water Company --- 2nd. \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

<b>Greenwich</b>	Brunswick School	Dana Montanez	3501	LST	1	Developing an Organic Microbial Solution for the Plastic Accumulation Problem in Water Sources		
<b>Student(s)</b>					<b>Gabriel Trahanas</b>	<b>Grade 11</b>	<b>Town</b> Riverside	
					<b>Oliver Velasco</b>	<b>Grade 11</b>	<b>Town</b> Greenwich	

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

<b>Greenwich</b>	Central Middle School	Andrew Bramante	5514	P8	1	The Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification		
<b>Student(s)</b>					<b>Mikah Kaalund</b>	<b>Grade 8</b>	<b>Town</b> Greenwich	

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$300 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

<b>Greenwich</b>	Central Middle School	Andrew Bramante	2507	L8	2	Modeling of Fairfield County Fresh-water and Estuary Waterways, to Highlight Contamination of their Ecosystems/Environments		
<b>Student(s)</b>					<b>Briar Lissauer</b>	<b>Grade 8</b>	<b>Town</b> Greenwich	

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior

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

**Greenwich** Central Middle School Andrew Bramante

2516	L8	1	Development of a Simple Salivary Rapid Diagnostic for the Detection of Iodine Deficiencies
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**Student(s)** Tyler Malkin **Grade 8** **Town** Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 8th grade- \$300 & trophy
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Greenwich** Central Middle School Andrew Bramante

5504	P8	1	Simple Filtration of Fertilizer-ion Water Contaminants via Implementation of Phosphate and Nitrate Absorbency Pads
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**Student(s)** Caroline Stowe **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Aquarion Water Company --- 3rd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

**Greenwich** Eastern Middle School Andrew Bramante

2501	L8	1	Design of a Smart-Bandage to provide lasting Itch-Relief and Healing for an Insect Bite.
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**Student(s)** Lily Bittman **Grade 8** **Town** Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 8th grade- \$200 & trophy
- \* Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- \* Connecticut Science Supervisors Association --- \$125 for a middle school project

**Greenwich** Eastern Middle School Andrew Bramante

2506	L8	2	Natural remedies research for seasonal allergies by Machine Learning of Crowd Information
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**Student(s)** Arthur Lai **Grade 8** **Town** Greenwich

- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy

**Greenwich** Eastern Middle School Andrew Bramante

2512	L8	1	Emotionless Negotiator Droid
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**Student(s)** Louw Otto **Grade 8** **Town** Riverside

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Infosys Foundation Computer Science Awards --- 2nd Place Middle School - \$200, Trophy

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Eastern Middle School	Andrew Bramante	5502	P8	2	Shedding Light on the Prevalence of Harmful Butylated Hydroxytoluene Preservative in Artificially Formulated Dog Foods.		
			<b>Student(s)</b>		<b>Mackensey Wilson</b>	<b>Grade 8</b>	<b>Town</b>	Old Greenwich
<ul style="list-style-type: none"> <li>* Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 &amp; trophy</li> <li>* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 &amp; trophy</li> <li>* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners</li> <li>* Wisner Chairman's Award --- \$500 cash &amp; Plaque MS</li> </ul>								
Greenwich	Greenwich Country Day School	Nathan Haag	3104	LS	3	Effects of Mindfulness Meditation on Sports Performance		
			<b>Student(s)</b>		<b>John Berbano</b>	<b>Grade 12</b>	<b>Town</b>	Yonkers
Greenwich	Greenwich Country Day School	Nathan Haag	3024	LS	1	Effects of Temperature on the Growth Rate, Survival Rate, and Breeding Rate of Multiple Generations of Neocaradina davidi, Cherry Shrimp		
			<b>Student(s)</b>		<b>Michael Capek</b>	<b>Grade 12</b>	<b>Town</b>	Rye
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
Greenwich	Greenwich Country Day School	Nathan Haag	3043	LS	3	Plant Microbial Fuel Utilization in Harvesting Photosynthetic Energy from Local Invasive Plant Species		
			<b>Student(s)</b>		<b>Djeneba Dembele</b>	<b>Grade 11</b>	<b>Town</b>	Greenwich
Greenwich	Greenwich Country Day School	Nathan Haag	6067	PS	3	Researching the Effectiveness of Engine Oil After Combined With Cooking Oils		
			<b>Student(s)</b>		<b>Bailey Gendason</b>	<b>Grade 12</b>	<b>Town</b>	Stamford
Greenwich	Greenwich Country Day School	Nathan Haag	3016	LS	2	Antidepressant-response biomarkers in adolescents: a confirmational study using EEG		
			<b>Student(s)</b>		<b>Solomon Hochman</b>	<b>Grade 12</b>	<b>Town</b>	Riverside
* Bushnell Center for Performing Arts --- Pair of Tickets to Bushnell Center for top project that is behavioral or social sciences related								
Greenwich	Greenwich Country Day School	Nathan Haag	3089	LS	2	Trickle-Bed Bioreactor for the Environmental Remediation of PFOS-Contaminated Water		
			<b>Student(s)</b>		<b>Charlie Meyer</b>	<b>Grade 12</b>	<b>Town</b>	Mamaroneck
Greenwich	Greenwich Country Day School	Nathan Haag	6042	PS	3	Exploring Gravitational Forces in Comparison with Acceleration on different elements of a Model Roller Coaster		
			<b>Student(s)</b>		<b>Natalie Simpson</b>	<b>Grade 11</b>	<b>Town</b>	Mount Kisco

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich Country Day School	Nathan Haag	3131	LS	2	PlanetProtect		
			<b>Student(s)</b>		<b>Daniel St-Louis</b>		<b>Grade</b>	<b>Town</b>
							12	Stamford
Greenwich	Greenwich Country Day School	Nathan Haag	6085	PS	3	Cichlid Fry Growth based on High vs Low protein diets		
			<b>Student(s)</b>		<b>Tucker Winham</b>		<b>Grade</b>	<b>Town</b>
							12	Greenwich
Greenwich	Greenwich High School	Andrew Bramante	6053	PS	2	Reduced Carbon Dioxide Emission and Increased Energy Efficiency Via a Newly-Designed Superconductive Cryogenic Brushless DC Motor		
			<b>Student(s)</b>		<b>Ishan Ambastha</b>		<b>Grade</b>	<b>Town</b>
							11	Riverside
* Frederick Olender USC Award in Memory of G. Robert Wisner --- \$250 Cash Award for HS student in USC school								
Greenwich	Greenwich High School	Andrew Bramante	3113	LS	2	Implementation of a Multi-Objective Genetic Algorithm to Optimize Resource Allocation in Disease Prevention		
			<b>Student(s)</b>		<b>Isaac Bell</b>		<b>Grade</b>	<b>Town</b>
							10	Riverside
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion								
* Otero Family Award --- The Otero Family Award; \$250 cash								
Greenwich	Greenwich High School	Andrew Bramante	3025	LS	2	Sonic Repulsion of Purple Sea Urchins to Reduce Degradation of Nascent Nereocystis luetkeana Forests		
			<b>Student(s)</b>		<b>Owen Benison</b>		<b>Grade</b>	<b>Town</b>
							11	riverside
* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place HS- \$300, Plaque								
* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap (swag), First Place 8, 9, 10 grader								
* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project								
* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project								
Greenwich	Greenwich High School	Andrew Bramante	6081	PS	2	Genetic Engineering of Cryobacterium to Increase Silica Content and Enhance the Glacial Albedo of Black Arctic Oceans		
			<b>Student(s)</b>		<b>Justin Bernstein</b>		<b>Grade</b>	<b>Town</b>
							11	Greenwich
* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion								
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
Greenwich	Greenwich High School	Andrew Bramante	3099	LS	2	Simple and Rapid Removal of Onychomycosis using Electromagnetic Microwave Radiation		
			<b>Student(s)</b>		<b>Sam Bier</b>		<b>Grade</b>	<b>Town</b>
							11	Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante

3142	LS	2	Development of Non-Invasive Diagnostic Tool for Lipedema Using Colorimetric Analysis of Skin Reflectance
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**Student(s)** Hannah Dacruz **Grade** 9 **Town** Riverside

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

**Greenwich** Greenwich High School Andrew Bramante

6071	PS	2	Reduction of Polyethylene and Polypropylene Waste Footprints via their Scalable Conversions into Useful Surfactants
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**Student(s)** Zara Haque **Grade** 11 **Town** Riverside

**Greenwich** Greenwich High School Andrew Bramante

3122	LS	2	Rapid Detection of Pulmonary Fibrosis via Eu(TTA) <sub>3</sub> Phen, and Rhodamine-6G-Cinnamaldehyde, Dual-Sensor Luminescent Diagnostic
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**Student(s)** Lauren Huang **Grade** 11 **Town** Old Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante

3071	LS	1	Fabrication of a Europium-based Magnetic Nanosensor for the Detection of D-Serine in Early-onset Alzheimers
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**Student(s)** Ava Jackson **Grade** 11 **Town** Old Greenwich

\* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High- \$300 & Plaque  
 \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion  
 \* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF  
 \* Connecticut Science Supervisors Association --- \$125 for a high school project

**Greenwich** Greenwich High School Andrew Bramante

6058	PS	1	Detection of Nanoplastics within Complex Environmental and Food Resource Matrices via Machine Learning
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**Student(s)** Henry Jin **Grade** 10 **Town** Greenwich

\* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion  
 \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* Aquarion Water Company --- 1st, \$250.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

**Greenwich** Greenwich High School Andrew Bramante

6039	PS	3	Inexpensive, Autonomous Drone Image Recognition of Cornfields, for Realtime Detection of Crop Fungal and Pesticidal Disease
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**Student(s)** Aveyry Ku **Grade** 10 **Town** Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante

3055 LS 1 Development and In vitro Verification of a Polymersome for Blood-Brain Barrier Transport Through a Novel Machine Learning Model

**Student(s)** Ashley Malkin **Grade** 11 **Town** Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- \* 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 --- 4th Place Biotechnology Senior High - plaque

**Greenwich** Greenwich High School Andrew Bramante

3003 LS 2 Iron-Fortified Cornhusk Biochar Flocculation of Pondwater Phosphates, to Reduce Invasive Macrophyte Growth

**Student(s)** Neil Pendkar **Grade** 9 **Town** Old Greenwich

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

**Greenwich** Greenwich High School Andrew Bramante

3130 LS 2 Coagulation Cascade Suppression and Enhanced Bioavailability via Biodegradable Polymeric Quercetin

**Student(s)** Frank Skibo **Grade** 12 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3009 LS 1 Rapid Detection of Stress Biomarker Cortisol via a Molecularly Imprinted Polypyrrole Sensor

**Student(s)** Ryan Wadhwa **Grade** 10 **Town** Riverside

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

**Greenwich** Greenwich High School Andrew Bramante

3020 LS 1 Oral Delivery of Anticoagulant Dabigatran via a Mg-Micromotor Encapsulant Within a Gastric-Resistant Tablet for Ischemic Stroke Treatment

**Student(s)** Lula Wang **Grade** 9 **Town** Old Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$500 & plaque
- \* Regeneron Biomedical Science Award --- Certificate & \$375.00 cash

**Greenwich** Greenwich High School Andrew Bramante

6019 PS 3 Reinforcement Learning Optimization of Placement of Public Vehicle Charging Stations using a Novel Parking Demand Model

**Student(s)** Marley Wies **Grade** 10 **Town** Old Greenwich

- \* M&T Bank Mathematics Awards --- 3rd Place High School - \$200 and Plaque
- \* Infosys Foundation Computer Science Awards --- 3rd Place High School- \$200, Plaque
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics



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

**Greenwich** Greenwich High School Andrew Bramante  
 3045 LS 2 Implementation of Wearable, Bluetooth Gyroscopic Sensing for Smartphone Remote Monitoring of Patient Mobility

**Student(s)** Alexander Zhao **Grade** 11 **Town** Greenwich

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

**Guilford** Guilford High School Penghua Wang  
 3522 LST 3 Flaviviruses Manipulate Host Skin Microbiota to Attract Mosquitoes and Promote Transmission by Disrupting Vitamin A Metabolism

**Student(s)** Catherine Zhou **Grade** 11 **Town** GUILFORD

Devin Lu **Grade** 11 **Town** GUILFORD

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
 2510 L8 2 Comparing dog and human saliva as first line of defense in wound healing

**Student(s)** Anna Aslan **Grade** 8 **Town** Hamden

**Hamden** Hamden Hall Country Day School Daniel Cuneo  
 3096 LS 2 Edhelper: The Application of Artificial Intelligence in the Aid of Neurodivergent Children

**Student(s)** Andrei Balas **Grade** 10 **Town** Cheshire

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

**Hamden** Hamden Hall Country Day School Daniel Cuneo  
 6512 PST 2 Using Quantum-assisted Machine Learning in Maize Yield Prediction through Environmental Patterns.

**Student(s)** Helena Chaine **Grade** 11 **Town** Orange

Yue Zhuo **Grade** 12 **Town** Hamden

Linda Chen **Grade** 10 **Town** Woodbridge

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

\* Biophysical Society --- Biophysics Award- \$100

**Hamden** Hamden Hall Country Day School Gina D'Angelo  
 6025 PS 1 Deep learning based drug response prediction algorithm about synergistic and antagonistic responses of cell lines and drug combos.

**Student(s)** Jiahui Chen **Grade** 11 **Town** New Haven

\* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

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

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

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

\* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

**Hamden** Hamden Hall Country Day School Gina D'Angelo  
 3021 LS 2 The Effect of Increasing Soil Concentrations of Polyethylene on the Growth (Average Height in Centimeters) of Phaseolus vulgaris

**Student(s)** Penelope Dwyer **Grade** 9 **Town** Madison

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Sarrah Gavin	3061	LS	3	The effect of deforestation on soil erosion at Sleeping Giant Park		
					<b>Student(s)</b> Kaleb Fiore	<b>Grade</b> 10	<b>Town</b> Southington, CT	
* Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2008	L7	1	How Does Temperature Effect Nitrogen Fixation Pods in Legumes		
					<b>Student(s)</b> Kinan Harb	<b>Grade</b> 7	<b>Town</b> Milford	
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion								
Hamden	Hamden Hall Country Day School	Michael Gustin	6518	PST	2	Using Predictive Modeling to Find the Most Influential Variables in Basketball Games		
					<b>Student(s)</b> Eric Huang	<b>Grade</b> 11	<b>Town</b> Guilford	
					Leon Jiang	<b>Grade</b> 10	<b>Town</b> New Haven	
					Jiahe Jin	<b>Grade</b> 10	<b>Town</b> Guilford	
Hamden	Hamden Hall Country Day School	Jacob Marchesi	6076	PS	2	iAAA+ (impact Absorbing and Alerting Plus) band		
					<b>Student(s)</b> Ravindu Karunaratne	<b>Grade</b> 10	<b>Town</b> Hamden	
Hamden	Hamden Hall Country Day School	Michael Gustin	6093	PS	2	A Machine Learning Approach to Predicting Economic Recessions.		
					<b>Student(s)</b> Andrea Lim	<b>Grade</b> 10	<b>Town</b> Cheshire	
Hamden	Hamden Hall Country Day School	Robert Link	3011	LS	2	Using an AI algorithm to minimize the number of punctures attempted during blood draw or IV insertion.		
					<b>Student(s)</b> Neev Makin	<b>Grade</b> 10	<b>Town</b> Hamden	
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	5013	P7	2	How visual impairmeny can affect perception		
					<b>Student(s)</b> Stanley Shen	<b>Grade</b> 7	<b>Town</b> Milford	
Hamden	Hamden Hall Country Day School	Gina D'Angelo	3527	LST	2	The effect of varying lengths of UV ray exposures on the regeneration rate of Planaria		
					<b>Student(s)</b> Alessandra Sticca	<b>Grade</b> 9	<b>Town</b> Milford	
					Frida Ramirez-Moreno	<b>Grade</b> 9	<b>Town</b> Meriden	

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Frank Gasparro	3017	LS	1	Effect of Hydroxyapatite Encapsulation on the Transdermal Diffusion and Photodegradation of Avobenzone and Octinoxate to Enhance Sunscreen Safety		
					<b>Student(s)</b> Sophia Vash	<b>Grade</b> 10	<b>Town</b> Fairfield CT	
<p>* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion            * Freeman Family Excellence in Chemistry Awards --- \$200 For Excellence in Chemistry or Chemical Engineering - High School</p>								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2505	L8	2	The effect of feeding intervals on pulsation rate of Lumbriculus variegatus after starvation		
					<b>Student(s)</b> Audrey Wang	<b>Grade</b> 8	<b>Town</b> Cheshire	
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	3082	LS	3	The Power of the Mind: Understanding and Harnessing the Placebo Effect		
					<b>Student(s)</b> Andrew Yang	<b>Grade</b> 10	<b>Town</b> southbury	
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	3135	LS	2	The Effect of Growth Media Composition on [PSI+] Propagation in S. Cerevisiae and S. Pastorianus.		
					<b>Student(s)</b> Alexander Yi	<b>Grade</b> 11	<b>Town</b> Hamden	
Hamden	Sacred Heart Academy	Elizabeth Christophy	3506	LST	3	Commercial vs. Edible Plastic Wrap: Determining the Superior Film for Food Storage		
					<b>Student(s)</b> Kiera Barney	<b>Grade</b> 10	<b>Town</b> Hamden	
					Chiara Troiano	<b>Grade</b> 10	<b>Town</b> Hamden	
Hamden	Sacred Heart Academy	Sibani Sengupta	3117	LS	2	The Effect of Sound Pollution on the Physical Behavior of Armadillidium Vulgare		
					<b>Student(s)</b> Danyella Lanche-Flores	<b>Grade</b> 12	<b>Town</b> West Haven	
<p>* Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist</p>								
Hamden	Sacred Heart Academy	Wendy Decter	3026	LS	2	Will a Chemical Repellant or a Natural Oil Work Better to Repel Pill Bugs?		
					<b>Student(s)</b> Jacqueline Ouellette	<b>Grade</b> 9	<b>Town</b> Meriden	
Hamden	Sacred Heart Academy	Wendy Decter	3057	LS	2	The Effectiveness of Toxic vs Non-Toxic Disinfectants		
					<b>Student(s)</b> Elizabeth Rogers	<b>Grade</b> 9	<b>Town</b> Madison	

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

**Hamden** Sacred Heart Academy Elizabeth Christophy  
 6006 PS 3 A Novel Method of Hair Dye Detection: Using Beer's Law in a Forensic Situation  
**Student(s)** Giana Tolomeo **Grade** 10 **Town** North Haven

**Kent** Kent School Jesse Klingebiel  
 6018 PS 2 Potential design of a multi-role UAV  
**Student(s)** Jianming (Jeremy) Chen **Grade** 11 **Town** Johns Creek

**Kent** Kent School Jesse Klingebiel  
 6083 PS 3 An interactive manipulator with anti-falling mechanism  
**Student(s)** Alvin Hao **Grade** 10 **Town** Diamond Bar

**Kent** Kent School Jesse Klingebiel  
 6032 PS 1 CardioXNet: Representation Learning for Accurate Cardiovascular Disease Diagnosis from X-ray Images  
**Student(s)** Jiwon Hwang **Grade** 10 **Town** Kent

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

**Kent** Kent School Jesse Klingebiel  
 3111 LS 2 The Use of CRISPR-Cas9 in Different Lepidoptera Species Reveals the Major Genes that Control Wing Patterning and Coloration  
**Student(s)** Kaitlyn Shen **Grade** 11 **Town** Great Neck

**Manchester** Manchester High School Wendy Turek-Hernandez  
 3046 LS 3 The Analysis of Decaying Saliva: Impacts of Lapse of Time on DNA Deterioration  
**Student(s)** Carolina Mancini **Grade** 12 **Town** Manchester

**Manchester** Manchester High School Wendy Turek-Hernandez  
 3138 LS 2 Determining the incidence of Beech Leaf Disease symptom severity based on overwintering nematode abundance in Fagus grandifolia buds  
**Student(s)** Dina Watson **Grade** 12 **Town** Manchester

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- \* Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash

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

**Manchester** Saint James School Ellen Oei  
 5017 P7 1 Crusty n' Rusty

**Student(s)** Brendan Abbamonte **Grade 7** **Town** Vernon

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$200 & trophy
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Manchester** Saint James School Ellen Oei  
 4016 PT 2 Soccer Ball Inflation

**Student(s)** Nicholas Rataic **Grade 7** **Town** Vernon  
 John Curtin **Grade 7** **Town** Manchester

**Manchester** Saint James School Ellen Oei  
 5007 P7 2 Affect of Color on Heat Absorption

**Student(s)** Saanvi Sethi **Grade 7** **Town** Manchester

- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy
- \* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, \$100 Cash
- \* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences

**Mansfield** Edwin O Smith High School Cheryl Granger  
 6005 PS 2 Why Does My Neighborhood Have Less Trees Than Yours? Geospatial Modeling of Urban Tree Cover Inequalities in Connecticut Cities

**Student(s)** Hiruni Witharana **Grade 10** **Town** Storrs

- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

**Milford** Platt Technical High School Lori Grace  
 6505 PST 3 Natural Skincare

**Student(s)** Jeferson Encranacion **Grade 12** **Town** bridgeport  
 Julia Pressley **Grade 12** **Town** West Haven

**Milford** Platt Technical High School Lori Grace  
 6523 PST 3 Sonic Converter

**Student(s)** Orville Ferguson **Grade 10** **Town** Bridgeport  
 Eddie Love **Grade 10** **Town** Bridgeport

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

**Milford** Platt Technical High School Lori Grace

3502 LST 2 NatureCare Project

**Student(s)** **Diogo Gaudencio** **Grade 12** **Town** bridgeport  
**Yossias Mulualem** **Grade 12** **Town** ansonia  
**Maritza Portillo** **Grade 12** **Town** west haven

\* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion  
 \* CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Performance.

**Milford** Platt Technical High School Lori Grace

6517 PST 3 Eco-Filter

**Student(s)** **Nabila Kandawala** **Grade 11** **Town** Bridgeport  
**Nariah Joyner** **Grade 11** **Town** West Haven  
**Daniela de Oliveira** **Grade 11** **Town** Stratford

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

**Milford** Platt Technical High School Lori Grace

6096 PS 3 Carbon • Aid

**Student(s)** **Jayden Quaynor** **Grade 11** **Town** Derby

**Montville** Saint Bernard School Alexandros Mathioudakis

6011 PS 2 Making Football Safer With The Smart Helmet

**Student(s)** **Palmer Noe** **Grade 10** **Town** East Lyme

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

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

3078 LS 2 Investigating the Relationship Between the Size of Blood Clots, Blood Flow Rate, and Anticoagulants in the Cardiovascular System for the Implementation in Ischemic Stroke Patients

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

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

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

3034 LS 2 Investigating the Concentration of Glucose in Fruits Before and After Adding Invertase to Determine the Optimal Fruit for Consumption for a Diabetic Patient with Hypoglycemia

**Student(s)** **Titiladeoluwa Adeniran** **Grade 9** **Town** Seymour

**New Haven** Engineering and Science University Magnet School Roger Rushworth

3118 LS 2 Implementing the Usage of Nontoxic Sand and Bacterial Filtration in the Enhanced Degradation of Emerging Contaminants in Aqueous Solutions

**Student(s)** **Sahithi Aliminate** **Grade 9** **Town** Milford

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>New Haven</b>	Engineering and Science University Magnet School	Roger Rushworth	3126	LS	1	Advanced Hybrid Water Treatment Systems: A Comparative Study of Membrane Filtration, Adsorption, and Photocatalysis for Comprehensive Contaminant Removal		
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**Student(s)** Saket Aliminate **Grade** 10 **Town** Milford

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

<b>New Haven</b>	Engineering and Science University Magnet School	Roger Rushworth	6036	PS	1	Evaluating Hyperparameter Tuned Machine Learning Classifiers for Pancreatic Cancer Detection via Urinary Biomarkers		
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**Student(s)** Nivrith Ananth Iyer **Grade** 10 **Town** West Haven

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

<b>New Haven</b>	Engineering and Science University Magnet School	Roger Rushworth	3050	LS	2	Implementation of a Computationally Efficient Machine-Learning-Based System to Diagnose Cervical Cancer via Numerical Feature Extraction and Multivariate Regression		
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**Student(s)** Ethan Joseph **Grade** 9 **Town** West Haven

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

<b>New Haven</b>	Engineering and Science University Magnet School	Alyssa Anderson	6052	PS	1	Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for Adsorptive Removal of Microplastics and Oil from Contaminated Water		
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**Student(s)** Snigtha Mohanraj **Grade** 11 **Town** Ansonia

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- \* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250

<b>New Haven</b>	Hopkins School	Phillip Stewart	6055	PS	3	Profit from stock pricing		
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**Student(s)** Christina Cao **Grade** 11 **Town** Trumbull

- \* M&T Bank Mathematics Awards --- High School Finalist - Medallion
- \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)

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

**New Haven** Sound School Charles Mulligan

6511 PST 2 Potential Impact of Watershed Runoff and Tidal Inundation on the Hydrologic Profile of a Coastal March

**Student(s)** Cora FitzGerald **Grade 11** **Town** Guilford  
 Tamzin Maines **Grade 11** **Town** Old Saybrook

- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

**New Haven** Worthington Hooker School Douglas Jones

1020 LT 1 Biodegradable Hydrogels: Improving our Agriculture's Sustainability

**Student(s)** Sofia Janiga **Grade 8** **Town** New Haven  
 Azalea Deener **Grade 8** **Town** New Haven

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- \* NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award for excellence in equine studies

**New Haven** Worthington Hooker School Douglas Jones

4014 PT 3 Do Homemade Water Filters Work?

**Student(s)** Nora Peaper **Grade 7** **Town** New Haven  
 Sophia Korn **Grade 7** **Town** New Haven

**New Haven** Worthington Hooker School Douglas Jones

2503 L8 1 The Influence of Various Factors on Yeast Fermentation

**Student(s)** Roko Skarica **Grade 8** **Town** New Haven

- \* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 8th grade- trophy

**New Haven** Worthington Hooker School Douglas Jones

1023 LT 2 How Does Different Liquids Affect Brine Shrimp?

**Student(s)** Miniya Turner **Grade 7** **Town** New Haven  
 Cassidy Scott **Grade 7** **Town** New Haven

**Newtown** Newtown High School Mathieu Freeman

3012 LS 2 Hepatic Stellate Cells in Liver Regeneration

**Student(s)** Kaylin Brissette **Grade 10** **Town** Sandy Hook

**Newtown** Newtown High School Kevin Eppley

6092 PS 3 Autonomous Ping Pong Robot Object Detection and Prediction

**Student(s)** Aiden Burbank **Grade 12** **Town** Sandy hook



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Newtown</b>	Newtown High School	Timothy DeJulio	3125	LS	2	Inhibition of Prion Protein Propagation		
					<b>Student(s)</b>	<b>Beatrice Cardamone</b>	<b>Grade 11</b>	<b>Town</b> Sandy Hook

<b>Newtown</b>	Newtown High School	Timothy DeJulio	3083	LS	2	Using Sunscreen as a way to distribute Beneficial Microorganisms for Corals (BMCs)		
					<b>Student(s)</b>	<b>Lydia Cox</b>	<b>Grade 11</b>	<b>Town</b> newtown

- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project

<b>Newtown</b>	Newtown High School	Timothy DeJulio	6062	PS	3	AI Based Skin Cancer Detection System		
					<b>Student(s)</b>	<b>Aadit Jerfy</b>	<b>Grade 11</b>	<b>Town</b> Newtown

<b>Newtown</b>	Newtown High School	Timothy DeJulio	6088	PS	3	The Effect of Road Usage Frequency on the Quality of Soil		
					<b>Student(s)</b>	<b>Nathan Twitchell</b>	<b>Grade 11</b>	<b>Town</b> Newtown

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

<b>Norwich</b>	Norwich Free Academy	Jason Croteau	3106	LS	2	Resisting the resistance: Examining the value of mushrooms in an increasingly antibiotic resistant world.		
					<b>Student(s)</b>	<b>Areanna Iovene</b>	<b>Grade 12</b>	<b>Town</b> Baltic

<b>Norwich</b>	Norwich Technical High School	Aleatha Pelloni	3129	LS	2	The Application of Amygdalin as an Early Stage Medicinal Cancer Therapy to act as an Accessible Option on a National Scale		
					<b>Student(s)</b>	<b>Emerson Alexy</b>	<b>Grade 12</b>	<b>Town</b> Old Saybrook

- \* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

<b>Norwich</b>	Norwich Technical High School	Aleatha Pelloni	3526	LST	2	Cultivating Green Growth: Harnessing Electroculture for Sustainable Gardening Practices		
					<b>Student(s)</b>	<b>Sophia Caballero</b>	<b>Grade 11</b>	<b>Town</b> Norwich
						<b>Alejandra Cardona</b>	<b>Grade 11</b>	<b>Town</b> New London

- \* EnergizeCT Technical High School Science & Technology Awards --- 2nd Place- Technical High School , \$300, Plaque
- \* EnergizeCT Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

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

**Norwich** Norwich Technical High School Aleatha Pelloni

3509 LST 1 Renewable fuel using anaerobic digestion

**Student(s)** Jasmine Coulombe  
 Tessa Lambert

**Grade** 11 **Town** Chaplin  
 Grade 11 **Town** Scotland

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place - Life Sciences Senior High Team - Plaque
- \* EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, Plaque & Stipend to Compete at GENIUS Olympiad
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

**Norwich** Norwich Technical High School Suzanne Edwards

6066 PS 3 A Mathematical Analysis of the Variables Impacting the Performance of Wind Turbines as the Energy Converts from Kinetic to Mechanical to Electrical

**Student(s)** Leah Kozerefski

**Grade** 9 **Town** Gilman

- \* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* U.S. Air Force --- Certificate & USAF Merchandise Package
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**Norwich** Norwich Technical High School Aleatha Pelloni

3141 LS 3 Using Evolutionary Adaptation of Bacteria with Artificial Pressures from UV Radiation to Create Antibiotic Activity

**Student(s)** Elijah Smith

**Grade** 12 **Town** Norwich

- \* EnergizeCT Technical High School Science & Technology Awards --- 3rd Place- Technical High School , \$200, Plaque

**Pomfret** Pomfret School Josh Lake

3068 LS 3 A Multi-Task Learning Model Integrating Fractal Analysis and Homomorphic Encryption for Secure and Efficient ECG Interpretation

**Student(s)** Bennett Cho

**Grade** 10 **Town** Seoul, South Korea

**Pomfret** Pomfret School Seongi Hong

6029 PS 2 Development of a novel machine learning algorithm for identifying and analyzing dark matter through weak gravitational lensing effect

**Student(s)** Yuna Cho

**Grade** 11 **Town** Pomfret

**Redding** CT STEM Fair Joyce Reed

3052 LS 1 Determining the Ability of Different Mosses and Plants to Remove Algae Causing Phosphates and Nitrates From Water

**Student(s)** Emma Cannon

**Grade** 11 **Town** New Canaan

- \* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences Senior High- Plaque
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Redding	CT STEM Fair	Catherine Piscitelli	6508	PST	3	Designing a More Human-Like Non-Player-Character to Enhance Player Experience in Video Games		
					<b>Student(s)</b>	<b>Adam Liu</b>	<b>Grade 12</b>	<b>Town</b> Woodbridge
						<b>Alesandro Gopal</b>	<b>Grade 12</b>	<b>Town</b> Woodbridge
Redding	CT STEM Fair	Catherine Piscitelli	3060	LS	1	Determining Trail Making Test B Accuracy in Predicting Driving Preparedness in Pre-Driving-Age Adolescents		
					<b>Student(s)</b>	<b>Mila Mejnartowicz</b>	<b>Grade 10</b>	<b>Town</b> Woodbridge
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
Redding	CT STEM Fair	Catherine Piscitelli	3019	LS	2	Investigating If There Is a Correlation Between Maternal Age At Time Of Pregnancy Loss And The Number Of Trophoblast Inclusions In The Placenta		
					<b>Student(s)</b>	<b>Charlotte Stannard</b>	<b>Grade 10</b>	<b>Town</b> Bethany
Redding	CT STEM Fair	Catherine Piscitelli	6017	PS	2	Creating a Novel Decision Tree-Based Change Point Detection Machine Learning Algorithm Employing Unsupervised Learning for Real-Time Earthquake Detection		
					<b>Student(s)</b>	<b>Iris Yan</b>	<b>Grade 12</b>	<b>Town</b> Woodbridge
Ridgefield	Ridgefield High School	Ryan Gleason	3042	LS	3	The Effect of Morning Versus Night Exercise on Sleep Length and Quality		
					<b>Student(s)</b>	<b>Bella Greco</b>	<b>Grade 11</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Christopher Tait	3140	LS	3	Caffeinated Energy Drinks Effects on Athletic Performance		
					<b>Student(s)</b>	<b>Cate Hicks</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Euan Hunter	3505	LST	3	Quantifying Microplastics in Marine Organisms Using Potassium Hydroxide and Nile Red Dye		
					<b>Student(s)</b>	<b>Martha Huitron</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
						<b>Ashwika Krishnan</b>	<b>Grade 10</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	6021	PS	2	Preventing Catastrophic Forgetting in Continual Learning by Controlling Nodewise Gradients		
					<b>Student(s)</b>	<b>Michael Tsai</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield

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

**Ridgefield** Ridgefield High School Ryan Gleason  
 3120 LS 2 The Effect of Plant Based Proteins vs Animal Based Proteins on Sleep Quantity (Soy vs. Beef)  
**Student(s) Emily Yee** **Grade 12** **Town** Ridgefield

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

**Rocky Hill** Rocky Hill High School Sharon Parker  
 6519 PST 3 Investigating the Influence of Annealing Zinc Oxide and Aluminum Nitride on the Electrical and Mechanical Properties of Piezoelectric Transducers  
**Student(s) Ved Bathula** **Grade 12** **Town** Rocky Hill  
**Kristian Odobashi** **Grade 12** **Town** Rocky Hill  
**Daniel DiTunno** **Grade 11** **Town** Rocky Hill

**Salisbury** The Hotchkiss School David Butler  
 3114 LS 3 Comparison of intrabody-mediated degradation of mHTT through ubiquitin independent vs. dependent pathways  
**Student(s) Jerry Fan** **Grade 9** **Town** Watervliet

**Salisbury** The Hotchkiss School Jungah Song  
 3081 LS 1 Antioxidative Effects of Sargassum horneri on Alleviating Neurodegeneration Induced by Sustained Alcohol Exposure on Caenorhabditis elegans Model  
**Student(s) Remy Lee** **Grade 10** **Town** Lakeville

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Salisbury** The Hotchkiss School Sid Yenugu  
 6103 PS 2 A Resilient & Cost-Effective Prosthetic Device Tailored for the Accelerated Growth of Children  
**Student(s) Sia Reddy** **Grade 10** **Town** Avon

\* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- HS School- Certificate, \$75.00 gift card given by ONR  
 \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8  
 \* Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High

**Shelton** Shelton Intermediate School Erica McNeil  
 4009 PT 3 Does the Temperature of a tennis ball effect how high it bounces ?  
**Student(s) Ryan Goncalves** **Grade 7** **Town** Shelton  
**Aiden Teixeira** **Grade 7** **Town** Shelton

**Shelton** Shelton Intermediate School Erica McNeil  
 5001 P7 2 Shot Power  
**Student(s) Brooke Plain** **Grade 7** **Town** Shelton

\* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy

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

**Shelton** Shelton Intermediate School Erica McNeil

5018	P7	3	What kinds of cereals get soggy in milk?
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**Student(s)** Sneh Shah **Grade** 7 **Town** Shelton

\* M&T Bank Mathematics Awards --- 3rd Place Middle School - \$100 and Trophy

**Simsbury** Westminster School Suzanne Bailey

6043	PS	1	Dual-Degree-of-Freedom Pneumatic Shoulder Rehabilitation Device Based on Flexible Materials
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**Student(s)** Meiyin Ren **Grade** 11 **Town** Simsbury

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & 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
- \* Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High

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

6501	PST	1	The Use of Piezoelectric Technology for a more Efficient and Cost-Effective Approach to Electronics Cooling
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**Student(s)** Adithya Anand **Grade** 11 **Town** South Windsor  
 Jason Thokchom **Grade** 11 **Town** South Windsor

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- \* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

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

3524	LST	1	MushBox: In Situ Biodegradation of Municipal Solid Waste through Mycoremediation via Mycelium and Cellulosic Waste Integration
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**Student(s)** Samarth Basanth **Grade** 10 **Town** South Windsor  
 Tejbir Litt **Grade** 10 **Town** South Windsor

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place HS- Plaque and \$700 Stipend to Compete at GENIUS Olympiad
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

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

6520	PST	3	Acid Rain? Such A Pain!
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**Student(s)** Eliza Blanchfield **Grade** 10 **Town** South Windsor  
 Raina Shukla **Grade** 10 **Town** South Windsor

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>South Windsor</b>	South Windsor High School	Danel Eitel	3517	LST	2	Saving the Scraps		
<b>Student(s)</b>	<b>Sofia Holovatska</b>	<b>Grade 10</b>	<b>Town</b>	south windsor				
	<b>Grace Zeng</b>	<b>Grade 10</b>	<b>Town</b>	south windsor				
	<b>Aarya Nair</b>	<b>Grade 10</b>	<b>Town</b>	south windsor				

<b>South Windsor</b>	South Windsor High School	Joshua Kraus	6035	PS	3	A novel approach to a biomimetic undersea generator aided by triboelectric nanogenerators to harness natural ocean currents		
<b>Student(s)</b>	<b>Pranay Kakkar</b>	<b>Grade 11</b>	<b>Town</b>	South Windsor				

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

<b>South Windsor</b>	South Windsor High School	Danel Eitel	3534	LST	2	Elements of Ecology, the Institution for Innovation and Environmentally Beneficial Invasive Plant Removal Projects		
<b>Student(s)</b>	<b>Srinidhi Karthik</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				
	<b>Nishigandha Bhambure</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				

\* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion  
 \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

<b>South Windsor</b>	South Windsor High School	Danel Eitel	3504	LST	2	Reducing Plastic Waste A Little At A Time		
<b>Student(s)</b>	<b>Ali Omer</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				
	<b>Alex Rho</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				

<b>South Windsor</b>	South Windsor High School	Danel Eitel	3510	LST	2	A novel approach to preventing the PrPsc induced neurotoxicity which characterizes Creutzfeldt-Jakob disease through the inhibition of Glypican-1		
<b>Student(s)</b>	<b>Smriti Rajan</b>	<b>Grade 11</b>	<b>Town</b>	South Windsor				
	<b>Sanjay Rajan</b>	<b>Grade 9</b>	<b>Town</b>	South Windsor				

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

<b>South Windsor</b>	South Windsor High School	Danel Eitel	6527	PST	2	Railgun Launcher		
<b>Student(s)</b>	<b>Rithika Rajasekaran</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				
	<b>Sienna Michaelson</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				
	<b>Lily Hamilton</b>	<b>Grade 10</b>	<b>Town</b>	South Windsor				

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

**South Windsor** South Windsor High School Danel Eitel  
 6513 PST 3 Mitigation of Pharmaceutical Pollution through Advanced Water Treatment Techniques: A Study on Reverse Osmosis and Successful Filtration Methods

**Student(s)** Arushi Sharma **Grade** 10 **Town** South Windsor  
 Ananya Rajan **Grade** 10 **Town** South Windsor

**South Windsor** South Windsor High School Danel Eitel  
 6507 PST 1 Optimized Magneto-Inertial Fusion for Practical Use

**Student(s)** Jeremy Shiju **Grade** 11 **Town** South Windsor High School  
 Akshaj Nadimpalli **Grade** 11 **Town** South Windsor  
 Daniel Stoyanov **Grade** 11 **Town** South Windsor

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

**South Windsor** South Windsor High School Danel Eitel  
 6061 PS 3 How does less electricity usage impact the surrounding temperature?

**Student(s)** Isha Verma **Grade** 10 **Town** South Windsor

**South Windsor** South Windsor High School Kevin Snyder  
 6013 PS 1 Scientific understanding of solar physics with image based neural networks

**Student(s)** Pragyan Yadav **Grade** 12 **Town** South Windsor

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Infosys Foundation Computer Science Awards --- 1st Place High School - \$500, Plaque
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate

**Southbury** Pomperaug High School Coleen Merritt  
 3139 LS 3 Nano-Coatings for Tooth Remineralization and Tooth Protection.

**Student(s)** Kamyra Keerthivasan **Grade** 11 **Town** Middlebury

**Southbury** Pomperaug High School Anna Natenzon  
 3516 LST 3 A Comprehensive Exploration of the COVID-19 Pandemic's Long Lasting Mental Toll on Hospital Nurses

**Student(s)** Parsh Verma **Grade** 11 **Town** Southbury  
 Somya Nog **Grade** 11 **Town** Southbury

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

**Southington** Joseph A. Depaolo Middle School Halime Agirman  
 2514 L8 2 Global Warming Management through Utilization of naturally occurring resources such as Eggshell-Derived Calcium Carbonate in Global Warming Reduction

**Student(s)** Esra Agirman **Grade 8** **Town** Southington

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$435
- \* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

**Stamford** Academy of Information Technology and Joshua Bogard  
 3035 LS 1 A Novel Machine Learning Model for Estrous Cycle Classification in Mice

**Student(s)** Saachi Goyal **Grade 11** **Town** Stamford

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - \$300, Plaque
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place High School - \$500 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

**Stamford** Bi-Cultural Hebrew Academy Chris Graseck  
 1005 LT 2 Growing Radishes with Different pH Solutions

**Student(s)** Liv Haron **Grade 7** **Town** Stamford  
 Ella Notik **Grade 7** **Town** Stamford

**Stamford** Bi-Cultural Hebrew Academy Chris Graseck  
 2004 L7 1 Growing algae in different salinities

**Student(s)** Aaron Palker **Grade 7** **Town** Stamford

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 7th grade- \$100 & trophy

**Stamford** Bi-Cultural Hebrew Academy Chris Graseck  
 1010 LT 2 What Salt Is Best for Hatching Brine Shrimp?

**Student(s)** Daniella Raich **Grade 7** **Town** Stamford  
 Stella Pachter **Grade 7** **Town** Stamford

**Stamford** King School Victoria Schulman  
 3048 LS 2 Assessing the presence of Gluten

**Student(s)** Thomas Cline **Grade 11** **Town** Greenwich



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

**Stamford** King School Victoria Schulman  
 6072 PS 1 Clonal Evolution of Non-Small Cell Lung Cancer Reveals TP53/EGFR Maintenance and SETD2 Selection in Metastases

**Student(s)** Parker Hayashi **Grade** 11 **Town** Riverside

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

**Stamford** King School Victoria Schulman  
 6097 PS 1 DETICKT IT: A Machine Learning-Based Application for Real-Time Tick Identification and Spatiotemporal Disease Risk Assessment

**Student(s)** Antonia Kolb **Grade** 12 **Town** New Canaan

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Christopher T. Borowiec Excellence in Innovation Awards --- \$100 Cash for Excellence in Innovation with emphasis in Artificial Intelligence

**Stamford** King School Yiliu Li  
 6034 PS 3 Two-Dimensional Semiconductors: Characteristics and Usages of Graphene and Transition-Metal Monolayers

**Student(s)** Zachary Louizos **Grade** 11 **Town** Stamford

**Stamford** King School Victoria Schulman  
 3037 LS 3 Assessing the Public's Willingness to Accept Cancer Vaccines

**Student(s)** Madeline Scanlon **Grade** 11 **Town** New Canaan

**Stamford** King School Victoria Schulman  
 3044 LS 1 Gender-Related Differences in a Murine PCSK9 and HFD Model of Atherosclerosis

**Student(s)** Layla Shah **Grade** 12 **Town** Wilton

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Stamford** King School Erik Rutyna  
 6078 PS 3 Utilizing Ground and Space-Based Sensors to Track Trajectories of Vehicles/Dangerous Objects and Monitor Climate Change/Environmental Issues

**Student(s)** Ryan Wempen **Grade** 12 **Town** Stamford

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

**Stonington** St. Michael School Anna Grossomanides  
 5516 P8 3 Waste in the Water

**Student(s)** Connor Anderson **Grade** 8 **Town** Pawcatuck

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stonington	St. Michael School	Anna-Helene Grossomanides	5501	P8	2	Determining the Impact of pH on Seashell Dissolution		
			<b>Student(s)</b>		<b>Addison Cadmus</b>	<b>Grade 8</b>	<b>Town</b>	Pawcatuck
* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF								
Stonington	St. Michael School	Anna-Helene Grossomanides	5512	P8	2	Dairy-Free Delights		
			<b>Student(s)</b>		<b>Gwendolyn Fratoni-Jaskiewicz</b>	<b>Grade 8</b>	<b>Town</b>	Pawcatuck
Stonington	St. Michael School	Anna-Helene Grossomanides	5012	P7	2	The Charcoal Affect (Physical Science)		
			<b>Student(s)</b>		<b>Josephine Hawkins</b>	<b>Grade 7</b>	<b>Town</b>	Westerly, RI
Stonington	St. Michael School	Anna-Helene Grossomanides	5008	P7	3	Expensive Fails or, Long Lasting Nails		
			<b>Student(s)</b>		<b>Maeve Nicholas</b>	<b>Grade 7</b>	<b>Town</b>	Stonington
* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion * Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Physical Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$435								
Stonington	St. Michael School	Anna-Helene Grossomanides	5506	P8	2	From Ocean to Tap		
			<b>Student(s)</b>		<b>Sarah Previty</b>	<b>Grade 8</b>	<b>Town</b>	Stonington
Stratford	St. Mark School	Alexander Kennedy	4006	PT	2	Self Inflating Balloon		
			<b>Student(s)</b>		<b>Sara Gnoza</b>	<b>Grade 8</b>	<b>Town</b>	Stratford
			<b>Student(s)</b>		<b>Angelina Pino</b>	<b>Grade 8</b>	<b>Town</b>	Bridgeport
Stratford	St. Mark School	Alexander Kennedy	2513	L8	2	Implicit Gender Bias		
			<b>Student(s)</b>		<b>Julianne Gonzalez</b>	<b>Grade 8</b>	<b>Town</b>	Stratford
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Stratford	St. Mark School	Alexander Kennedy	5015	P7	3	The Strength of Electromagnets		
			<b>Student(s)</b>		<b>Tyler Markland</b>	<b>Grade 7</b>	<b>Town</b>	Stratford

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Stratford</b>	St. Mark School	Alexander Kennedy	4020	PT	3	Does Color Affect the Way taste is perceived?		
<b>Student(s)</b>					<b>Maeve McCloskey</b>	<b>Grade 7</b>	<b>Town</b> Stratford	
					<b>Stella Testo</b>	<b>Grade 7</b>	<b>Town</b> Stratford	

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

<b>Suffield</b>	Suffield Academy	Seungoh Seo	3031	LS	3	Predicting drug repurposing capabilities, utilizing off-Target effects, through chemoinformatics and bioinformatics-based machine learning models		
<b>Student(s)</b>					<b>Ansel Choi</b>	<b>Grade 10</b>	<b>Town</b> Seocho-gu	

<b>Suffield</b>	Suffield Academy	Michael Zappala	3002	LS	1	Dental Nutrients' Delivery Through the Intraoral Cavity with a Toothpaste Using Penetration Enhancers		
<b>Student(s)</b>					<b>MJ Choi</b>	<b>Grade 10</b>	<b>Town</b> Brookline	

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

<b>Thomaston</b>	Thomaston High School	James Newton	6033	PS	2	Power Generation by Different Wastewater Types in Single-Chambered Microbial Fuel Cells		
<b>Student(s)</b>					<b>Velia Russman</b>	<b>Grade 12</b>	<b>Town</b> Thomaston	

<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6050	PS	3	Development of Biodegradable Plastic		
<b>Student(s)</b>					<b>Colby Burke</b>	<b>Grade 11</b>	<b>Town</b> Shelton	

<b>Trumbull</b>	Christian Heritage School	Nicole Camacho	5515	P8	1	How does the pH of a liquid affect its spherification?		
<b>Student(s)</b>					<b>Gaia Cioppa</b>	<b>Grade 8</b>	<b>Town</b> Greenwich	

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

<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6102	PS	3	Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses		
<b>Student(s)</b>					<b>Daylin Jerome</b>	<b>Grade 11</b>	<b>Town</b> Bridgeport	

\* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion  
 \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- HS School- Certificate, \$75.00 gift card given by ONR  
 \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)  
 \* Wisner Chairman's Award --- \$500 cash & Plaque HS  
 \* Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque HS

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

**Trumbull** Christian Heritage School Nicole Camacho  
 5505 P8 3 How do different substances affect how light is bent

**Student(s)** Joshua Joseph **Grade** 8 **Town** Milford

\* M&T Bank Mathematics Awards --- 1st Place Middle School- \$300 and Plaque

**Trumbull** Christian Heritage School Nicole Camacho  
 2517 L8 2 Do Storm drains keep trash out of water ways?

**Student(s)** Juliette Schwartz **Grade** 8 **Town** Shelton

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

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

\* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

**Trumbull** Christian Heritage School Daniel Cote  
 6037 PS 3 Text to Speech and Speech to Text App for the Hearing Impaired

**Student(s)** Noah Scrofani **Grade** 11 **Town** Trumbull

\* Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

**Trumbull** Trumbull High School Steffanie Elkins  
 3132 LS 2 The Impact of pH on the Rate at which Organic Matter Decomposes in Compost

**Student(s)** Anthony Deras **Grade** 12 **Town** Bridgeport

**Trumbull** Trumbull High School Steffanie Elkins  
 3080 LS 3 Neurological Density of Fish Affects the Ability to Train

**Student(s)** Grace Schober **Grade** 12 **Town** Trumbull

**Trumbull** Trumbull High School Steffanie Elkins  
 3023 LS 2 Utilizing Bacillus Subtilis for the Accelerated Biodegradation of Polyethylene Terephthalate

**Student(s)** Kylie Totten **Grade** 12 **Town** Trumbull

**Wallingford** Choate Rosemary Hall Sunggook Kim  
 3079 LS 2 Effect of calcifying microorganisms with carboned rice hulls on removing ultrafine dust

**Student(s)** Seokhyun Chin **Grade** 11 **Town** Wallingford

**Wallingford** Choate Rosemary Hall Min Gyeong Kim  
 3074 LS 2 Investigation of lung cancer biomarkers through in vitro cell-free DNA

**Student(s)** Stanley Cho **Grade** 11 **Town** Wallingford

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Wallingford	Choate Rosemary Hall	Tim Yun	3097	LS	2	Heterogenous Association between Mortality and Environmental Factors		
<b>Student(s) Andrew Ju</b>							<b>Grade 11</b>	<b>Town Wallingford</b>

Wallingford	Choate Rosemary Hall	Jan Cook	6051	PS	2	Properties of Certain Quadrilaterals of Triangle Centers		
<b>Student(s) Kay Yeon Lee</b>							<b>Grade 11</b>	<b>Town Wallingford</b>

- \* M&T Bank Mathematics Awards --- High School Finalist - Medallion
- \* Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics
- \* Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque HS

Wallingford	Choate Rosemary Hall	Selena Gell	6502	PST	2	Construction of a Low-cost, Accurate Liquid Handling Device with 3D Printing for Polymerase Chain Reaction		
<b>Student(s) Calvin Moon</b>							<b>Grade 12</b>	<b>Town Wallingford</b>
<b>Jeffrey Moon</b>							<b>Grade 11</b>	<b>Town Wallingford</b>

- \* Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - HS \$200
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

Wallingford	Choate Rosemary Hall	Yingxin Gao	3121	LS	2	Identifying the Patterns in the Progression of Alzheimer's Disease		
<b>Student(s) Ann Song</b>							<b>Grade 11</b>	<b>Town Farmington</b>

- \* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$200, Plaque
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque

Wallingford	Choate Rosemary Hall	Chenglin Miao	3006	LS	1	Spatial Learning and Memory: Finding and Investigating Place Cells in the Hippocampus		
<b>Student(s) Yumeng Wang</b>							<b>Grade 10</b>	<b>Town Wallingford</b>

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

Wallingford	Choate Rosemary Hall	Andrew Murgio	6525	PST	1	AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies		
<b>Student(s) Jingyuan Zhang</b>							<b>Grade 11</b>	<b>Town Wallingford</b>
<b>Xiyin Yang</b>							<b>Grade 11</b>	<b>Town Wallingford</b>

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- \* Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$300 & plaque
- \* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250
- \* IEEE, Connecticut Section --- \$250 Honors Award -Senior
- \* Arthur & Ruth Mensing Awards --- Mensing Award Excellence in the High School Physical Sciences - \$500

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

**Waterbury** ACES at Chase Lisa Debany  
 1007 LT 2 Creating Safe Sunscreens For Coral Reefs With The Best U.V. Protection.

**Student(s)** Emily Ambrosini **Grade 7** **Town** Watertown  
 Taylor Boscarino **Grade 7** **Town** Thomaston

\* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

**Waterbury** ACES at Chase Natalie Huey  
 1001 LT 2 Does Water Temperature Affect Seed Germination?

**Student(s)** Joel Brooks **Grade 8** **Town** Naugatuck  
 Pierce Knowlton **Grade 8** **Town** Thomaston  
 Eric Callender **Grade 8** **Town** Waterbury

**Waterbury** ACES at Chase Natalie Huey  
 5507 P8 3 Effective and Safe Removal of Stickers

**Student(s)** Lilly Carew **Grade 8** **Town** Watertown

**Waterbury** ACES at Chase Sandra Solimene  
 5511 P8 1 Creating Cost- Effective Eco-Friendly Insulation

**Student(s)** Andrew Daukas **Grade 8** **Town** Middlebury

\* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy

\* Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy

**Waterbury** ACES at Chase Sandra Solimene  
 5503 P8 1 The Bag that Saved the Homeless

**Student(s)** Evaleise Diaz **Grade 8** **Town** Meriden

\* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion

\* Demos R Us Awards --- \$200 Cash Award- Clear Execution of Research- 8th Grade

\* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

**Waterbury** ACES at Chase Kelly Horan  
 5005 P7 3 What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?

**Student(s)** Jacob Godfrey **Grade 7** **Town** Waterbury

\* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place Middle School - Trophy, Medallion

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

\* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

\* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

\* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

\* Aquarion Water Company --- 1st. \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

\* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$900

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

**Waterbury** ACES at Chase Lisa Debany  
 1015 LT 2 Can Ultra Violet Light Be Used To Detect Ticks On Human Bodies?  
**Student(s)** Ehtan Johnson **Grade 7** **Town** Waterbury  
 Piper Sullivan **Grade 7** **Town** Waterbury

**Waterbury** ACES at Chase Waterbury  
 2511 L8 3 Leaf Light Chlorophyll light bulb  
**Student(s)** Toren Lott **Grade 8** **Town** Waterbury

\* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

**Waterbury** ACES at Chase Lisa Debany  
 4015 PT 2 Mycelium Trash Bags vs Plastic Trash Bags  
**Student(s)** Greyson Sauer **Grade 7** **Town** Prospect  
 Mason Mantz **Grade 7** **Town** Waterbury

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

**Waterbury** ACES at Chase Lisa Debany  
 2005 L7 1 Reducing Lycorma delicatula, Lantern Fly, Infestation: Using Essential Oils to Address Crop Damage and Food Shortages.  
**Student(s)** Besjana Veliu **Grade 7** **Town** Waterbury

\* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 7th grade- \$300 & trophy  
 \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion  
 \* Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy  
 \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Westport** Greens Farms Academy Mathieu Freeman  
 3007 LS 3 Methylphenidate Treatment of Parkinson's Disease in Drosophila Melanogaster  
**Student(s)** Liam Glynn **Grade 12** **Town** New Canaan

**Westport** Greens Farms Academy Juli Gerdes  
 3101 LS 1 The Effect of Resveratrol on ALS Positive Flies Locomotor Dysfunction  
**Student(s)** Lilly Hogan **Grade 12** **Town** Westport

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Westport	Greens Farms Academy	Mathieu Freeman	5014	P7	1	Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars		
					<b>Student(s)</b>	<b>Dylan Karpf</b>	<b>Grade 7</b>	<b>Town</b> Westport
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$300 &amp; trophy</li> <li>* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion</li> <li>* Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 &amp; trophy</li> <li>* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners</li> <li>* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation</li> <li>* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications</li> <li>* Demos R Us Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade</li> </ul>								
Westport	Greens Farms Academy	Mathieu Freeman	6086	PS	2	Exploring the Efficiency of Mealworm Consumption of Plastic Using FTIR Spectroscopy		
					<b>Student(s)</b>	<b>Zoe Monschein</b>	<b>Grade 12</b>	<b>Town</b> Norwalk
Westport	Greens Farms Academy	Matthew Freeman	3013	LS	1	Role of Protein Expression in Diatom Chain Formation		
					<b>Student(s)</b>	<b>Charlotte Wagner</b>	<b>Grade 12</b>	<b>Town</b> Southport
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
Westport	Greens Farms Academy	Mathieu Freeman	3029	LS	3	Effects of Culverts on Salt Marsh Tidal Choking, Biodiversity, and Soil Respiration		
					<b>Student(s)</b>	<b>Jakob Zapanta</b>	<b>Grade 12</b>	<b>Town</b> Bridgeport
Westport	Staples High School	Amy Parent	3098	LS	1	The Effect of Diet Composition on the Growth and Development of Colorectal Cancer Tumors in the Drosophila Midgut		
					<b>Student(s)</b>	<b>William Boberski</b>	<b>Grade 11</b>	<b>Town</b> Westport
<ul style="list-style-type: none"> <li>* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion</li> <li>* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion</li> </ul>								
Westport	Staples High School	Amy Parent	3136	LS	2	Impact of organic fertilizers on soil microbial activity and carbon sequestration in baby lettuce		
					<b>Student(s)</b>	<b>Tessa Cassell</b>	<b>Grade 12</b>	<b>Town</b> Westport
* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion								
Westport	Staples High School	Amy Parent	3064	LS	2	The Effect of Diacetyl on Long-term Thermotolerance of Thermally Acclimated Breviolum minutum		
					<b>Student(s)</b>	<b>Kendra Cheng</b>	<b>Grade 11</b>	<b>Town</b> Westport



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Westport</b>	Staples High School	Amy Parent	3128	LS	1	The Effect of Activating ATR-Kinase on Zygotic Stress, Survival, and DNA Damage		
					<b>Student(s)</b>	<b>Sara De Pinho</b>	<b>Grade 11</b>	<b>Town</b> Westport

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

<b>Westport</b>	Staples High School	Julie Cantatore-Francis	3036	LS	2	The Evaluation of Muscle Function in C. elegans with DMD with Varying Concentrations of Vitamin D Supplementation		
					<b>Student(s)</b>	<b>Nolan Francis</b>	<b>Grade 10</b>	<b>Town</b> westport

<b>Westport</b>	Staples High School	Srividya Gorre	6063	PS	2	Early Detection of Parkinson's Disease using a Computer Vision Model		
					<b>Student(s)</b>	<b>Shreyas Gorre</b>	<b>Grade 11</b>	<b>Town</b> Westport

<b>Westport</b>	Staples High School	Amy Parent	3103	LS	2	Assessing the Impact of Artificial Sweeteners on Escherichia Coli: Effects on Growth, Biofilm Formation, Membrane Integrity & Cell Morphology, and Oxidative Stress		
					<b>Student(s)</b>	<b>Annam Olasewere</b>	<b>Grade 11</b>	<b>Town</b> Westport

<b>Wilton</b>	Middlebrook School	Paige Randall	5016	P7	1	FINDING ENERGY CONTENT IN FOOD BY USING CALORIMETER		
					<b>Student(s)</b>	<b>Kanira Baskar</b>	<b>Grade 7</b>	<b>Town</b> WILTON

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

<b>Wilton</b>	Middlebrook School	Nancy Wakeham	5010	P7	3	Wireless Power Transfer - Future of Energy		
					<b>Student(s)</b>	<b>Ishan Chugh</b>	<b>Grade 7</b>	<b>Town</b> Wilton

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

<b>Wilton</b>	Middlebrook School	Allison Norful	1014	LT	1	Growing Pleustrus Ostreatus Mycelium with Full Synthetic Engine Lubricant to Create Biodegradable Alternatives to Supersede Environmentally-Harmful Substances		
					<b>Student(s)</b>	<b>Arav Gupta</b>	<b>Grade 8</b>	<b>Town</b> Wilton
						<b>Gopika Kaimal</b>	<b>Grade 8</b>	<b>Town</b> Wilton

\* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences MS Team- trophy

<b>Wilton</b>	Middlebrook School	Paige Randall	5006	P7	3	The Science Behind Lie detectors - How A Lie Detector works and How It Affects Our World Today		
					<b>Student(s)</b>	<b>Muskaan Kalra</b>	<b>Grade 7</b>	<b>Town</b> Wilton

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

**Wilton** Middlebrook School Debbie Mallozzi  
 2504 L8 2 "Leveraging Zea Sheaths to Prolong Food Freshness: A Strategy for Mitigating Bacterial Growth and Reducing Food Spoilage"  
**Student(s)** Nadia Khan **Grade 8** **Town** Wilton

**Wilton** Middlebrook School Janica Bagosy  
 5510 P8 1 Burnt: A web-based application to help adolescents self-assess and seek help for stress and poor mental health  
**Student(s)** Jackson Norful **Grade 8** **Town** Wilton

- \* Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- \* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place Middle School - \$200, Trophy
- \* Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Wilton** Middlebrook School Paige Randall  
 1022 LT 2 Green Grind - Can used coffee be used as an organic fertilizer rather than a chemical fertilizer?  
**Student(s)** Vidit Prabhu **Grade 7** **Town** Wilton  
 Mateo Arizu **Grade 7** **Town** Wilton

**Wilton** Middlebrook School William Desroches  
 1017 LT 1 BEAT THE PEAT - RICE HUSK, THE SUSTAINABLE AND ECO-FRIENDLY ALTERNATIVE TO PEAT MOSS  
**Student(s)** Kabir Rokkam **Grade 7** **Town** WILTON  
 Shushruth Balaji **Grade 7** **Town** Wilton

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences MS Team- \$150 each & trophy
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place MS - \$300, Trophy
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$200 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Wilton** Wilton High School Nikolas D'Agnese  
 6008 PS 1 Fiscatch: A Phishing Detection Website  
**Student(s)** Rohil Jain **Grade 12** **Town** Wilton

- \* Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

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

**Wilton** Wilton High School Matthew Hoyt

3059 LS 1 A Novel AI-Driven Approach for Tracking and Managing Invasive Plant Species

**Student(s)** Shriya Natarajan **Grade** 10 **Town** Wilton

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

**Wilton** Wilton High School Matthew Hoyt

3065 LS 2 The Influence of Natural and Man-Made Substrata on Intertidal Community Structure

**Student(s)** Nandan Raman **Grade** 11 **Town** Wilton

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

**Wilton** Wilton High School Sandra Tallman

6506 PST 2 Mathematically Modeling the Efficiency of a Hydraulic RAM Pump for Optimal Utilization in a Pump Storage Power Plant

**Student(s)** Aiden Sharp **Grade** 11 **Town** Wilton  
 Caleb Sharp **Grade** 11 **Town** Wilton

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

6524 PST 2 The Effect of Spatial Orientation of Panels in a Three-Dimensional Solar Tower

**Student(s)** Jair Andrew **Grade** 10 **Town** Ellington  
 Sriraam Sundararaman **Grade** 10 **Town** Newington

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

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

6028 PS 3 Investigations into the Link Between the Water Quality and Social Inequity.

**Student(s)** Constanza Barria Lopez **Grade** 10 **Town** Hartford

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

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

6009 PS 1 Reinforcing the Cybersecurity of Medical Data via Software Countermeasures against Malware in Heart Monitoring Technology

**Student(s)** Sujay Chava **Grade** 11 **Town** Ellington

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate
- \* Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High

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

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 6002 PS 1 Integrating Piezoelectric Sensors and Photovoltaic Material in an Artificial Energy-Harvesting Model Tree  
**Student(s)** Laasya Chintapalli **Grade** 11 **Town** Farmington

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 2003 L7 1 The Study Of Novel Toothbrush Cleaning Methods To Decrease Bacterial Surface Growth Using Ultraviolet (UV) Germicidal Light And Mouthwash  
**Student(s)** Ana-Marlene Davis **Grade** 7 **Town** Broad Brook

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 7th grade- \$200 & trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 4019 PT 1 Using Vortex Hydropower Turbines to Harvest Electrical Energy  
**Student(s)** Marcus Davis **Grade** 8 **Town** Broad Brook  
 Dylan Gao **Grade** 7 **Town** Coventry

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy
- \* EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist - Medallion
- \* Robotics And Beyond --- Middle School- For excellence in engineering design; \$230 toward Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp, Certificate.

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 3004 LS 1 Therapeutic Potential of Antibody Drug Conjugates Targeting The Expression of Trophoblast Cell-Surface Antigen 2 (TROP-2) On High Grade Serous Epithelial Ovarian Carcinoma  
**Student(s)** Ana-Lois Davis **Grade** 12 **Town** Broad Brook

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place High School - \$300 and Plaque, Medallion
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque
- \* The Community Foundation for Greater Hew Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$100 cash

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 6515 PST 1 The Effect of Surface Texture on the Efficiency of a Spoiler (airfoil) in Formula 1 Race Cars.  
**Student(s)** Willard Davis **Grade** 10 **Town** Broad Brook  
 Peter Davis **Grade** 10 **Town** Broad Brook

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

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

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

3054	LS	1	Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions
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**Student(s)** **Namyanzi Edwards** **Grade** 11 **Town** New Britain

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- \* EnergizeCT Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- \* IEEE, Connecticut Section --- \$250 Honors Award -Senior
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- \* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250
- \* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - (amount undefined) to a junior)

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

6079	PS	2	Using Biomimicry to Harvest Energy from the Sinusoidal Motion of an Eel
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**Student(s)** **Vikram Haran** **Grade** 11 **Town** Ellington

- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- \* EnergizeCT Future Sustainability Awards --- 1st Place High School - Plaque & \$700 Stipend to Compete at GENIUS Olympiad
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

4011	PT	2	Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface
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**Student(s)** **Palaniappan Manikandan** **Grade** 8 **Town** Ellington  
**Duke Clotey** **Grade** 8 **Town** Hartford

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and 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
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* 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
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- \* Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - MS \$100
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

4004	PT	2	Integrating Pelton Turbines Into Industrial Pipes to Harvest Energy					
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<b>Student(s)</b>	<b>Aaditya Sadhvani</b>	<b>Grade 8</b>	<b>Town</b>	Ellington
	<b>Roshan Kumar</b>	<b>Grade 8</b>	<b>Town</b>	Ellington

- \* Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

4001	PT	1	Combining Optical Wireless Communications (OWC) and Neuromorphic Architecture for Large-Scale Computations					
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<b>Student(s)</b>	<b>Rithvik Suren</b>	<b>Grade 8</b>	<b>Town</b>	Ellington
	<b>Aarav Chevva</b>	<b>Grade 8</b>	<b>Town</b>	Ellington

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences MS Team- \$150 each & trophy
- \* Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$300, Trophy
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Windsor** The Loomis Chaffee School Koby Osei-Mensah

6044	PS	1	A Deep Semi-Supervised Domain Generalization Approach for Epileptic Seizure Prediction using Electroencephalography (EEG)					
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<b>Student(s)</b>	<b>Sunwoo An</b>	<b>Grade 9</b>	<b>Town</b>	Seoul
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- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque
- \* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250

**Windsor** The Loomis Chaffee School Koby Osei-Mensah

6089	PS	2	Synthesis of Novel Calixarenes for Detection of Ions.					
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<b>Student(s)</b>	<b>Guo Chen</b>	<b>Grade 11</b>	<b>Town</b>	Windsor
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**Windsor** The Loomis Chaffee School Koby-Mensah Osei

3018	LS	1	Addressing Data Imbalance in Plant Disease Recognition through Contrastive Learning					
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<b>Student(s)</b>	<b>Bryan Chung</b>	<b>Grade 11</b>	<b>Town</b>	Middlebury
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- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Windsor** The Loomis Chaffee School Koby Osei-Mensah

3051	LS	1	Influence and implications of different strains and growth media on the chemical properties, water absorption, and morphology of mycelia bio-scaffolds					
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<b>Student(s)</b>	<b>Eli Krasnoff</b>	<b>Grade 11</b>	<b>Town</b>	Mill Valley
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- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Windsor</b>	The Loomis Chaffee School	Koby Osei-Mensah	6027	PS	2	Analog Neuron Circuit with Oscillatory Firing		
			<b>Student(s)</b>		<b>Kenneth Lee</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Windsor
<b>Windsor</b>	The Loomis Chaffee School	Koby Osei-Mensah	3084	LS	1	Novel Synthesis and Comprehensive Study of Tough Hydrogel for Bioadhesive Applications		
			<b>Student(s)</b>		<b>Jessica Luo</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Newark
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
<b>Windsor</b>	The Loomis Chaffee School	Koby Osei-Mensah	6049	PS	2	Talent vs. Luck: Success in a Capitalistic Society		
			<b>Student(s)</b>		<b>Kai Masujima</b>	<b>Grade</b>	<b>9</b>	<b>Town</b> Windsor
<b>Windsor</b>	The Loomis Chaffee School	Koby Osei-Mensah	3090	LS	2	Enhanced Therapeutic Recovery Gloves Designed for Spondylosis Rehabilitation		
			<b>Student(s)</b>		<b>Gracie Shen</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> West Hartford
<b>Windsor</b>	The Loomis Chaffee School	Koby Osei-Mensah	6012	PS	2	Machine Learning Approach for Estimating Razor Kinematic Variables MR and Rsq in Supersymmetric Proton Collision Searches		
			<b>Student(s)</b>		<b>Idil Türkmen</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Mersin
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion								
<b>Windsor</b>	The Loomis Chaffee School	Koby Osei-Mensah	3094	LS	3	The Efficacy of Vitamin D on prevention and treatment of Covid-19		
			<b>Student(s)</b>		<b>Zhao Yang Calvin Weng</b>	<b>Grade</b>	<b>9</b>	<b>Town</b> New York City
<b>Woodbridge</b>	Amity Regional High School	Catherine Piscitelli	3053	LS	3	Effects of Changes in Atmospheric Behavior and Oceanic Currents on the Stability and Formation of Antarctic Sea Ice (ASI) over the Next Century		
			<b>Student(s)</b>		<b>Vishwa Balamurugan</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Orange
<b>Woodbridge</b>	Amity Regional High School	Catherine Piscitelli	6010	PS	1	Creation of an Environment-Adaptive Reaction Algorithm Implemented on a Novel Smart Fluidic Servo Actuator to Provide a Sense of Pseudo-Exproprioception and Exteroception		
			<b>Student(s)</b>		<b>Aditi Bhattamishra</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Orange
* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion								
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion								
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion								
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion								
* Wisner Memorial Award --- \$ 1000 cash + Silver Bowl (\$2000 cash if a team) High School								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Woodbridge	Amity Regional High School	Catherine Piscitelli	6041	PS	2	Analysis of Green Solvent Mixtures to Determine Their Use in Nucleopeptide Solid Phase Peptide Synthesis		
			<b>Student(s)</b>		<b>Mia Bierowski</b>	<b>Grade 12</b>		<b>Town</b> Orange
Woodbridge	Amity Regional High School	Catherine Piscitelli	6091	PS	2	Determining Printed Circuit Board Surface Finish Effect on Signal Loss at High Frequency (5g/6g) Application		
			<b>Student(s)</b>		<b>Luke Chang</b>	<b>Grade 12</b>		<b>Town</b> Orange
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion								
Woodbridge	Amity Regional High School	Catherine Piscitelli	3040	LS	1	Optimizing Bone Regeneration: A Novel Atsttrin-Releasing Injectable Hydrogel for Enhanced Osteogenesis in Critical-Sized Bone Defects		
			<b>Student(s)</b>		<b>Haseeb Chaudhry</b>	<b>Grade 12</b>		<b>Town</b> Orange
* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences Senior High- Plaque								
Woodbridge	Amity Regional High School	Catherine Piscitelli	3049	LS	2	Examining the Effects of Urbanization on the Health of Forests		
			<b>Student(s)</b>		<b>Gregory Hofstatter</b>	<b>Grade 12</b>		<b>Town</b> Woodbridge
Woodbridge	Amity Regional High School	Catherine Piscitelli	6020	PS	2	Developing and Testing a Laminar Airfoil Utilizing Computational Fluid Dynamics to Implement Into General Aviation		
			<b>Student(s)</b>		<b>Alejandro Huber</b>	<b>Grade 12</b>		<b>Town</b> Woodbridge
* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate								
Woodbridge	Amity Regional High School	Catherine Piscitelli	3070	LS	3	Determining The Effect of ASD-Associated Gene GBX2 Deficiency on Thalamic Differentiation in Human Organoid Models		
			<b>Student(s)</b>		<b>Youlmin Lee</b>	<b>Grade 11</b>		<b>Town</b> Woodbridge
Woodbridge	Amity Regional High School	Catherine Piscitelli	3137	LS	2	Testing the Efficacy of an Applied Low-Voltage Textile Knit on Mosquito Blood-Feeding Prevention		
			<b>Student(s)</b>		<b>Randy Liu</b>	<b>Grade 12</b>		<b>Town</b> Woodbridge



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

**Woodbridge** Amity Regional High School Catherine Piscitelli

6503 PST 3 Development of a Novel Spray Mechanism Using Real-Time Bee Auditory Data to Trigger an Entomopathogenic Fungal Miticide in Beehives to Control Varroa Destructor Infestations

**Student(s)** Sophia Messina **Grade** 11 **Town** Woodbridge  
 Nikhil Petrov **Grade** 11 **Town** Woodbridge

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place HS- \$200, Plaque
- \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7,500/year)

**Woodbridge** Amity Regional High School Catherine Piscitelli

3133 LS 1 Determining the Effects of Moisture Content in Artificial Diet on the Survival, Growth, Development, and Pupation of Anoplophora glabripennis

**Student(s)** Sabrina Osowiecki **Grade** 11 **Town** Orange

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

**Woodbridge** Amity Regional High School Catherine Piscitelli

6001 PS 2 Developing an NLP-based Web Application to Evaluate Environmental Social Governance (ESG) from Social Networks for More Sustainable Company Practices

**Student(s)** Aarav Patel **Grade** 12 **Town** Orange

**Woodbridge** Amity Regional High School Catherine Piscitelli

3127 LS 2 Determining the Location and Effect of Epigenetic Changes Leading to Mutations in the DNA Sequence of a Lung Cancer Tumor in Mice Model

**Student(s)** Dariush Raissi **Grade** 11 **Town** Woodbridge

**Woodbridge** Amity Regional High School Catherine Piscitelli

6098 PS 1 Modeling Interactions Between the Neocortex and the Basal Ganglia During Temporal Sequential Learning Using a Hierarchical Temporal Memory Artificial Neural Network

**Student(s)** Annika Yun **Grade** 12 **Town** Orange

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque
- \* Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

**Woodbridge** Amity Regional High School Catherine Piscitelli

3115 LS 2 Analyzing mutations of the Spike protein of COVID omicron subvariants XBB and EG from their origin in order to identify correlations with their prevalence in the United States

**Student(s)** Jasir Zafar **Grade** 11 **Town** Orange