



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 3 - 15, 2025

### Special Award Winners

*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

Project#

FCat

Honors

Project Title

Sponsor(s)

Award(s)

School

Teacher

(Projects with 1st honors are Finalists in Life or Physical Science)

Avon

Avon High School

Andrea Galuska

6088

PS

3

Harnessing the Power of the Wind: A Comparative Analysis on HAWT, Savonius and Darrieus Wind Turbines and Their Efficiency

Student(s)

Nate Lee

Grade 10

Town

Avon

\* Wisner Chairman’s Award --- \$500 cash & plaque

Bethel

Bethel High School

Raymond Turek

6045

PS

2

Evaluating the Effectiveness of Natural Antioxidants in Slowing Food Oxidation and Extending Shelf Life

Student(s)

Katie Bui

Grade 12

Town

Bethel

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

Bethel

Bethel High School

Turek Ray

6035

PS

3

Advancing Personalized Seizure Control: A Cutting-Edge Real-Time EEG Feedback System for Precision Adaptive Neurostimulation

Student(s)

Srirama Desiraju

Grade 11

Town

Bethel

\* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$104,000 (\$26,000 per year) for exemplary 11th grade project

\* Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3

Bozrah

Fields Memorial School

Joshua Fish

4016

PT

1

A Study of the Impact of Slope, Materials, and Lubrication on Friction.

Student(s)

Elise Kobelski

Grade 8

Town

Bozrah

Hannah East

Grade 8

Town

Bozrah

Serena BunkerCai

Grade 8

Town

Bozrah

\* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, \$100 Cash

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

\* Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque MS

Bozrah

Fields Memorial School

Joshua Fish

4011

PT

3

What impact will different sphere and track variables have on the performance of a model roller coaster?

Student(s)

Benjamin Savoie

Grade 8

Town

Gilman

Isaiah Negron-Rygielski

Grade 8

Town

Bozrah

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

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bozrah	Fields Memorial School	Joshua fish						
1025	LT	1	A study of the efficiency of ice melt substances and their environmental impact on roadside vegetation					
Student(s)			Analise Williams		Grade 7		Town bozrah	
			Ella Sikorski		Grade 7		Town Bozrah	
<div>* Association for Women Geoscientists --- Certificate &amp; \$25 gift card given by CSEF</div> <div>* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners</div> <div>* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project</div> <div>* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash</div>								
Bridgeport	Bridgeport Regional Aquaculture Center	Kirk Shadle						
6027	PS	2	The Novel Application of Arbuscular Mycorrhizae to Improve the Vitality of Glycine max in Martian Regolith					
Student(s)			Owen Dueck		Grade 12		Town Trumbull	
<div>* Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS</div>								
Bridgeport	Fairchild Wheeler-Biotech	Tara Liskov						
6072	PS	3	Energy Production from a Homemade Hydrogen Cell					
Student(s)			Wyatt Speight		Grade 12		Town Fairfield	
<div>* Constellation Energy --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy</div> <div>* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project</div>								
Bridgeport	Fairchild Wheeler-Infotech	Ricki Chiem						
6518	PST	2	The Benefits of Designing Base Isolators for Earthquake Proof Structures					
Student(s)			Ayden Gamble		Grade 10		Town Bridgeport	
			Eddie Bermudez		Grade 11		Town Bridgeport	
<div>* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project</div>								
Bridgeport	John Winthrop School	Srilakshmi Kongani						
4005	PT	1	Don't Quake, Choose the Right Shape!					
Student(s)			Kyleen Negron		Grade 8		Town Bridgeport	
			Leah Brioso		Grade 8		Town Bridgeport	
<div>* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF</div> <div>* CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Performance.</div> <div>* Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - MS \$100</div> <div>* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100</div>								
Bridgeport	Theodore Roosevelt School	Sherita Paul						
5522	P8	3	The Strength of Bridges					
Student(s)			Edmond Deshotel		Grade 8		Town Bridgeport	
<div>* Kiev Family Awards --- 1st place - \$250 - For Excellence in Engineering Middle School</div>								

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## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Cheshire	Cheshire Academy	Breanna Craft	6013	PS	2	A Tracking System.		
Student(s)			Deanna Dixon			Grade	11	Town Cheshire
* Society of Women Engineers - Hartford Section --- Scientific Calculator								
Cheshire	Cheshire High School	Julie Barker	6058	PS	1	The Design and Development of a Smart and Effective Multi-Device Airline Seatbelt Alert System for Preventing Turbulence-Related Injuries Using IoT Technology		
Student(s)			Suchita Srinivasan			Grade	11	Town Cheshire
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR								
* Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3								
Danbury	Saint Gregory the Great School	Christine Fahey	2012	L7	1	1 Pollutant: 4 Filtering Methods		
Student(s)			Dheer Bhavsar			Grade	7	Town Danbury
* Aquarion Water Company --- 2nd. \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management								
* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash								
Danbury	Saint Gregory the Great School	Christine Fahey	1003	LT	3	Fertilizer vs Compost		
Student(s)			Lucia Molisani			Grade	7	Town Redding
			Gemma Molisani			Grade	7	Town Redding
* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF								
Danbury	Saint Gregory the Great School	Christine Fahey	2001	L7	1	Would You Like Plastic With That?		
Student(s)			Rahil Shah			Grade	7	Town Danbury
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
* Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.								
Danbury	Saint Joseph School	Kathleen Spina	2520	L8	1	Crossed Up!		
Student(s)			Brayden Crabbe			Grade	8	Town Danbury
* Wisner Chairman’s Award --- \$500 cash & plaque								
Danbury	Westside Middle School Academy	Nancy Barlow	5528	P8	2	The Benefit of A Coded Device To Water Plants Automatically		
Student(s)			Mackenzie Cooper			Grade	8	Town Danbury
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project								

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Danbury</b>	Westside Middle School Academy	Nancy Barlow	4002	PT	2	Increasing The Flight Distance of The Football by Changing its Characteristics		
		<b>Student(s)</b>				<b>Brennen Denema</b>	<b>Grade 8</b>	<b>Town</b> Danbury
						<b>Sean Kennedy</b>	<b>Grade 8</b>	<b>Town</b> Danbury
						<b>Mathias Sanchez</b>	<b>Grade 8</b>	<b>Town</b> Danbury
* U.S. Air Force --- Certificate & USAF Merchandise Package								
<b>Danbury</b>	Westside Middle School Academy	Nancy Barlow	4028	PT	1	The Effect of Different Salts in a Water Softener on Calcium in Drinking Water		
		<b>Student(s)</b>				<b>Siddanth Ramakrishnan</b>	<b>Grade 8</b>	<b>Town</b> Danbury
						<b>Patrick Madden</b>	<b>Grade 8</b>	<b>Town</b> Danbury
						<b>Thomas Smith</b>	<b>Grade 8</b>	<b>Town</b> Danbury
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
<b>Danbury</b>	Westside Middle School Academy	Nancy Barlow	1005	LT	2	Does heating or cooling a fruit/vegetable lower the amount of Brix?		
		<b>Student(s)</b>				<b>Mohammad Rehan</b>	<b>Grade 7</b>	<b>Town</b> Danbury
						<b>Gowtham Vallinayagam</b>	<b>Grade 7</b>	<b>Town</b> Danbury
* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest								
<b>Danbury</b>	Westside Middle School Academy	Nancy Barlow	4012	PT	2	How does the Type and Brand of a Battery Affect how Much Voltage it Loses Over Time?		
		<b>Student(s)</b>				<b>Logan Schneider</b>	<b>Grade 7</b>	<b>Town</b> Danbury
						<b>Daniel Sposato</b>	<b>Grade 7</b>	<b>Town</b> Danbury
* 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 7th grader- Project Oceanology's Ocean Camp - \$900								
<b>Darien</b>	Darien High School	David Lewis	6054	PS	3	The Detection of Circumstellar Debris Disks in Stellar Environments of 3 Habitable Small or Low-Mass Planet Candidates		
		<b>Student(s)</b>				<b>Julian Du</b>	<b>Grade 10</b>	<b>Town</b> Darien
* Christopher T. Borowiec Excellence in Innovation Awards --- \$100 Cash for Excellence in Planetary Science								
<b>Darien</b>	Darien High School	David Lewis	3131	LS	1	Association Between Food Insecurity and Mortality Outcomes Among Cancer Survivors in the United States		
		<b>Student(s)</b>				<b>Lily Keehlwetter</b>	<b>Grade 12</b>	<b>Town</b> Darien
* RNP Regenerative Medicine Excellence Awards --- \$250 - Excellence in Translational Medicine								

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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Darien	Darien High School	Guy Pratt	3015	LS	2	Correlation Between Depth and Transplantation Success Among 3 Coral Species		
Student(s)			Emma Meyers			Grade 12	Town	Darien
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								
Darien	Darien High School	Christine Leventhal	6030	PS	3	Confirming TESS exoplanet candidates and searching for multi-planetary systems using transit photometry and timing variations		
Student(s)			Allison Valji			Grade 12	Town	Darien
* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Senior Project-\$500, subscription to Sky and Telescope, ASGH membership and meeting invitation								
Enfield	Chiaravalle Academy	Tim Coleman	4003	PT	2	Evaluating the Effectiveness of Rainwater Filtration		
Student(s)			Leah Caswell			Grade 8	Town	Enfield
			Marin Czerwicz			Grade 8	Town	Agawam
			Arianna Plaz			Grade 8	Town	Suffied
* Geology/Historic Project of Merit Award --- \$150 - Earth Science - Field work with Geologic or historic value								
Enfield	Chiaravalle Academy	Tim Coleman	4008	PT	2	1 Step Towards a Greener World		
Student(s)			Megan Quinby			Grade 8	Town	Windsor
			Nathaniel Kelly			Grade 8	Town	Longmeadow
* Constellation Energy --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy								
Fairfield	Fairfield Warde	Ryan Gleason	3536	LST	2	The affect of invasive English Ivy on native Wild Ginger plants		
Student(s)			Calista Gleason			Grade 10	Town	Fairfield
			Emma Speicher			Grade 10	Town	Fairfield
* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash								
Farmington	Miss Porter's School	Christine Scanlon	6103	PS	2	Development of a Gravitational Lensing Model: The Effect of Lens Position and Orientation on Image Distortion		
Student(s)			Claire Lee			Grade 10	Town	FARMINGTON
* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, \$100 Cash								
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - \$100 Cash								
Greenwich	Brunswick School	Dana Montanez	6073	PS	3	Increasing Chlorophyll Production in Prochlorococcus via synchronous culturing with Trichodesmium: An effort to increase Photosynthetic Rate.		
Student(s)			Shep McGovern			Grade 10	Town	Greenwich
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - \$100 Cash								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Brunswick School	Dana Montanez	3117	LS	3	Sleep to Succes: How Sleep Impacts Student Acedemic Performance		
Student(s)			Harry Saunders			Grade	10	Town greenwich
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Greenwich	Central Middle School	Andrew Bramante	2505	L8	1	Development of a Thyme Oil-in-Hydromed Wearable Anklet for the Natural, Effective Repellant of Ticks		
Student(s)			Clara Cahill			Grade	8	Town Greenwich
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Life Sciences								
Greenwich	Central Middle School	Andrew Bramante	5504	P8	1	Highlighting the Prevalence of Microplastics at Tod's Point Through Waste Water and Ocean Currents Using Scanning Electron Microscopy Analysis		
Student(s)			Carter Henske			Grade	8	Town Greenwich
* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior								
Greenwich	Eastern Middle School	Andrew Bramante	2506	L8	1	Fabrication of a Biodegradable, Nutrient-Rich, Orange Peel-Loaded Hydrogel for Thermally-Programmed Release of Water to Maintain Soil Moisture		
Student(s)			Rajsi Choudhary			Grade	8	Town Greenwich
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
Greenwich	Eastern Middle School	Andrew Bramante	2501	L8	2	Identification of the Optimal Wastewater Algae for Production of Degradable Bioplastics from PHB		
Student(s)			Leo Foell			Grade	8	Town Greenwich
* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF								
* Connecticut Science Supervisors Association --- \$125 for a middle school project								
* Aquarion Water Company --- 1st. \$200.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management								
Greenwich	Eastern Middle School	Andrew Bramante	5511	P8	1	Field and Lawn Run-off Removal of Nitrates and Phosphates via an Iron & Calcium Fortified Biochar		
Student(s)			Ellie Mao			Grade	8	Town Riverside
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich Catholic School	Timothy Koppe	4015	PT	2	MedAssist (Smart medicine storage)		
Student(s)			Artem Perekhodko			Grade 7	Town	stamford
			Jose Miguel Bowles			Grade 7	Town	Greenwich
			Ben Ballester			Grade 7	Town	Stamford
* Zepke Awards --- \$120 - For the Best Use of Electronic Circuitry- Middle School								
* Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3								
Greenwich	Greenwich Country Day School	Nathan Haag	6108	PS	2	Effectiveness of a Smart Traffic Light Utilizing IoT Technologies for High School Campuses		
Student(s)			Christian Suy Pineda			Grade 11	Town	Stamford
* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250								
* J.A. Augustine and H. Glista Awards --- \$100 H. Glista Award for Physical Sciences								
Greenwich	Greenwich Country Day School	Nathan Haag	6099	PS	1	Optimizing Vertical Take-Off and Landing (VTOL) Aircraft Efficiency Through Propeller Design: Making Air Flight More Accessible, Affordable, and Sustainable		
Student(s)			Cooper Taylor			Grade 11	Town	Greenwich
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate								
* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250								
* Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High								
Greenwich	Greenwich High School	Andrew Bramante	3017	LS	2	Neural Network Interpretation of EEG Scans for Accurate Diagnosis of Asymptomatic Concussions		
Student(s)			Isha Bharti			Grade 9	Town	Riverside
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR								
Greenwich	Greenwich High School	Andrew Bramante	3006	LS	1	Targeted Delivery of a Melittin Anti-inflammatory Peptide via a Eudragit-Coated Sporopollenin Exine Capsule, for Effective Treatment of Crohn’s Disease		
Student(s)			Hannah Dcruz			Grade 10	Town	Greenwich
* IEEE William R. Wessman Awards --- \$100 Honorable Mention								
Greenwich	Greenwich High School	Andrew Bramante	6020	PS	2	Facilitated Ethylene Absorption and Freshness Preservation via All-Natural Sodium Chloride and		
Student(s)			Nishant Jain			Grade 10	Town	Riverside
* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest								



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich High School	Andrew Bramante	6009	PS	2	Consideration of Location-specific Weather and Topographic Datasets to Model Efficient Deployment of Forest Fire Flame Retardants		
Student(s) Iri Pullepu			Grade 9		Town Old Greenwich			
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics								
Greenwich	Greenwich High School	Andrew Bramante	3112	LS	2	Development of nnU-Net model for pediatric brain tumor segmentation in multi-modality MRI images		
Student(s) Sophie Yu			Grade 10		Town Riverside			
* Christopher T. Borowiec Excellence in Innovation Awards --- \$100 Cash for Excellence in Innovation with emphasis in Artificial Intelligence								
Greenwich	Sacred Heart Greenwich	Mary Musolino	2509	L8	1	Testing the Effectiveness of Green and Black Tea as a Plant Nutrient		
Student(s) Paige Creegan			Grade 8		Town Briarcliff Manor			
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								
Greenwich	Sacred Heart Greenwich	Mary Musolino	4001	PT	1	Testing the Strength and Biodegradability of Watermelon Rind and Banana Peel-Based Bioplastics		
Student(s) Stephanie Galvez			Grade 8		Town Greenwich			
Bonnie Ukperaj			Grade 8		Town Stamford			
Mia Cartagena			Grade 8		Town Stamford			
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
Greenwich	Sacred Heart Greenwich	Mary Musolino	2514	L8	1	Bamboo Bio-Plastic		
Student(s) Olivia Hastings			Grade 8		Town Greenwich			
* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF								
Greenwich	Sacred Heart Greenwich	Mary Musolino	1013	LT	2	The Effect of Silver Nanoparticles and Microplastics on the Reproductive Rate and Lifespan of Artemia Salina		
Student(s) Sophia Iyer			Grade 8		Town Darien			
Sydney Bellissimo			Grade 8		Town Riverside			
* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF								



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## Special Award Winners

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<b>Greenwich</b>	Sacred Heart Greenwich	Mary Musolino	4020	PT	1	Using Clay Flocculation to Reduce Harmful Algae Blooms in a Body of Water		
		<b>Student(s)</b>				<b>Vivienne Vanderwilt</b>	<b>Grade 8</b>	<b>Town</b> Greenwich
						<b>Nora Mulcahy</b>	<b>Grade 8</b>	<b>Town</b> RYE
						<b>Ariel Almonay</b>	<b>Grade 8</b>	<b>Town</b> Greenwich
* Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.								
<b>Greenwich</b>	Western Middle School	Andrew Bramante	5502	P8	1	Integration of Photoluminescent Manganese-doped ZnS Nanocrystals		
		<b>Student(s)</b>				<b>Alexandra Rothstein</b>	<b>Grade 8</b>	<b>Town</b> Greenwich
* Kiev Family Awards --- 2nd place - \$150 - For Excellence in Engineering Middle School								
<b>Hamden</b>	Hamden Hall Country Day School	Lucia Jilaveanu	3140	LS	1	Caveolin-1 as a Biomarker and Potential Mediator of Melanoma Brain Metastasis		
		<b>Student(s)</b>				<b>Andrei Balas</b>	<b>Grade 11</b>	<b>Town</b> Cheshire
* Regeneron Biomedical Science Award --- Certificate & \$375.00 cash								
<b>Hamden</b>	Hamden Hall Country Day School	Paulomi Aldo	5002	P7	3	Water Pressure Rocket		
		<b>Student(s)</b>				<b>Russell Clune</b>	<b>Grade 7</b>	<b>Town</b> Guilford
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								
<b>Hamden</b>	Hamden Hall Country Day School	Paulomi Aldo	5007	P7	1	How does dimple patterns affect a golf balls flight?		
		<b>Student(s)</b>				<b>David Esposito</b>	<b>Grade 7</b>	<b>Town</b> North Haven
* Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Physical Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650								
<b>Hamden</b>	Hamden Hall Country Day School	Robert Link	3134	LS	1	Development and experimentation of an AI algorithm alongside a Near-Infrared LED device to assist in venipuncture.		
		<b>Student(s)</b>				<b>Neev Makin</b>	<b>Grade 11</b>	<b>Town</b> Hamden
* Lunch with a Patent Attorney --- Lunch with a Patent Attorney								
* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100								
<b>Hamden</b>	Hamden Hall Country Day School	Jacob Marchesi	6506	PST	1	Energy Absorption Efficiency of Various Crumple Zone Materials in Pendulum Impact Tests on Model Cars		
		<b>Student(s)</b>				<b>Frida Ramirez Moreno</b>	<b>Grade 10</b>	<b>Town</b> Meriden
						<b>Barbara Ramirez Moreno</b>	<b>Grade 11</b>	<b>Town</b> Meriden
* Connecticut Association of Physics Teachers --- \$100 Senior project								

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## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Sacred Heart Academy	Paula Napychank	3007	LS	2	Assessing Hearing Risk: Analyzing Noise Levels of Hairdryers and Effective Sound Dampening Techniques		
Student(s)			Alessandra Picard		Grade 9	Town	MADISON	
* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project								
* Connecticut Academy of Audiology Awards --- \$200 Award MS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist								
Kent	Kent School	ZIHAO DU	6100	PS	2	Three-Support Lower-Limb Exoskeleton Device Integrating Multifunctionality and Feedback Mechanisms		
Student(s)			OliviaLu Feng		Grade 11	Town	Guangzhou, China	
* IEEE William R. Wessman Awards --- \$250 Honors Award -Senior								
* Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High								
Manchester	Manchester High School	Wendy Turek	3073	LS	2	The Effect of Nitrogen Enrichment on the Arousal of Astrangia Poculata from Quiescence		
Student(s)			Bailey Downey		Grade 12	Town	Manchester	
* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Award for top environmental protection project from an urban public school								
Manchester	Manchester High School	Wendy Turek-Hernandez	3153	LS	1	Flood Wave Reduction Due to Artificial Reefs		
Student(s)			Anas Hales		Grade 12	Town	Manchester	
* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF								
Manchester	Saint James School	Brianna Hawkins	5520	P8	1	Why is wool warmer than most fabric?		
Student(s)			Saanvi Sethi		Grade 8	Town	Manchester	
* Arthur & Ruth Mensing Awards --- Mensing Award Excellence in the High School Physical Sciences - \$500								
* NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award for excellence in equine studies								
Milford	Platt Technical High School	Sara Bruno	6516	PST	3	Green Growth Academy		
Student(s)			Danyalis Perez-Cumba		Grade 11	Town	North Haven	
			Maureen Freire-Trejo		Grade 11	Town	Bridgeport	
			Karen Plazas		Grade 11	Town	Bridgeport	
* CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Ccard from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Sustainability.								
* Alumni Botany Awards --- Alumni High School Botany Award- \$150 Cash								
New Haven	Engineering and Science University Magnet School	Alyssa Anderson	3008	LS	1	Evaluating LYVE1 Gene Expression in Breast Cancer Using qPCR Analysis and Comparing with Hyperparameter-Tuned Models for LYVE1 Gene Expression in Pancreatic Cancer		
Student(s)			Nivrih Ananth Iyer		Grade 11	Town	West Haven	
* 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)
New Haven	Engineering and Science University Magnet School	Paula Matei-Grysiak	3003	LS	1	Implementation and Validation of a Novel Machine-Learning-Based Mobile Gyrocardiography System for Arrhythmia Detection		
			Student(s)		Ethan Joseph	Grade	10	Town West Haven
* 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								
New Haven	Engineering and Science University Magnet School	Alyssa Anderson	2013	L7	2	Do we link certain titles to certain emotions?		
			Student(s)		Srikar Mandalika	Grade	7	Town Milford
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
New Haven	Engineering and Science University Magnet School	Alyssa Anderson	5512	P8	3	Investigating the Chemical Properties and Efficiency of Homeade Batteries: A Focus on Voltage, Energy and Chemical Reactions		
			Student(s)		Anabelle Silverman	Grade	8	Town New Haven
* Society of Women Engineers - Hartford Section --- Scientific Calculator								
* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award								
* Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering - Middle School								
* Demos R Us Awards --- \$200 Cash Award- Clear Execution of Research- 8th Grade								
New Haven	Foote School	Elliot Dickson	2016	L7	1	Studying Muscle Memory in Planaria to Understand Neurodegenerative Diseases		
			Student(s)		Jessica Park	Grade	7	Town New Haven
* Talcott Mountain Science Center & Academy --- TMSC Founder’s Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650								
New Haven	Sound School	Chuck Mulligan	3042	LS	1	Evaluation of Potential Filtration Enhancements Applied to Municipal Water: Assessing Potential Ways to Reduce Enterococcus Bacteria Levels Discharging From Wastewater Facilities		
			Student(s)		Britney Xochipiltcatl Cuahtepitz	Grade	12	Town New Haven
* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition								
New Haven	Wilbur Cross High School	Michael Sang	6070	PS	1	Exploring the Convergence of Juggler Sequences		
			Student(s)		Julian Theodore	Grade	11	Town New Haven
* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7500/year)								
New Haven	Worthington Hooker School	Douglas Jones	2011	L7	2	Effects of Salinity, Water Temperature, and Distance on Electrolysis		
			Student(s)		Samuel Kaplan-Fay	Grade	7	Town New Haven
* Aquarion Water Company --- 3rd. \$100.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management								

# Conn. Science & Engineering Fair

## Special Award Winners

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

**New Haven** Worthington Hooker School Douglas Jones

1020 LT 1 Does Plant Orientation Affect Growth

**Student(s)** Sieun Yoo

**Grade 8 Town** New Haven

Clarissa Castilio

**Grade 8 Town** New Haven

\* Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.

**Norwich** Norwich Technical High School Aleatha Pelloni

3012 LS 1 Proving Microplastics Transfer from Water to Living Organisms Through Vegetation

**Student(s)** Solibella Davis

**Grade 11 Town** New London

\* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition  
\* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)  
\* RNP Regenerative Medicine Excellence Awards --- \$250 - Excellence in Translational Medicine  
\* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

**Norwich** Norwich Technical High School Aleatha Pelloni

3509 LST 1 Impact of Sunscreen Contaminants on Plutes Growth and Development

**Student(s)** Addison Hackett

**Grade 11 Town** Willimantic

Kaitlyn Tortorich

**Grade 11 Town** Windham

\* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF  
\* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$104,000 (\$26,000 per year) for exemplary 11th grade project  
\* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$104,000 (\$26,000 per year) for exemplary 11th grade project

**Redding** CT STEM Lindsay McCarthy

3057 LS 1 Evaluating the Antifungal Potential of Citronella and Cassia Essential Oils at Different Concentrations Against the Mycelia Growth of Bipolaris sorokiniana

**Student(s)** Elena Huber

**Grade 10 Town** Woodbridge

\* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF  
\* RNP Regenerative Medicine Excellence Awards --- \$250 - Excellence in Translational Medicine

**Ridgefield** Ridgefield High School Patrick Hughes

6053 PS 2 Synthetic Turf Fields Effect on Water Features

**Student(s)** Elayna Wright

**Grade 12 Town** Ridgefield

\* Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value

**Ridgefield** Ridgefield High School Patrick Hughes

3046 LS 2 The Effects of Moisture Levels on Polystyrene Consumption in Tenebrio Molitor

**Student(s)** Elijah Yurkovsky

**Grade 12 Town** Ridgefield

\* Aquarion Water Company --- 3rd \$200.00 Cash - Grade 9-12 For Excellence in Water Quality or Environment Management

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

**South Windsor** South Windsor High School Suma Basavarappa

3144	LS	1	SiExo: Modular Bayesian-Optimized Dual-Ligand TfR/RVG Exosomes for siRNA Delivery and BBB Transcytosis in CNS Neurotherapeutics
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**Student(s)** Samarth Basanth **Grade** 11 **Town** South Windsor

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

**South Windsor** South Windsor High School Sivagami Chockalingam

3067	LS	1	Targeting Telomerase Activity in Malignant Cancer Cells: RNA Interference and Enzymatic Inhibition to Induce Growth Arrest, Senescence, and Block Metastatic Dissemination
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**Student(s)** Srinidhi Karthik **Grade** 11 **Town** South Windsor

\* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$104,000 (\$26,000 per year) for exemplary 11th grade project

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

6079	PS	2	Biodegradable Packaging Materials: Using Polysaccharides found in Alginate Extract from Marine Macroalgae to mimic the structure and function of Conventional polymers
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**Student(s)** Tanvi Mishra **Grade** 10 **Town** South Windsor

\* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Senior

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

6514	PST	2	Waste to Watts
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**Student(s)** Rishi Murali **Grade** 10 **Town** South Windsor

Gavin Lippi **Grade** 10 **Town** South Windsor

Prahaladhan Rajarajan **Grade** 10 **Town** south windsor

\* Constellation Energy --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

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

6519	PST	3	PFOAway: An Eco-Friendly, Affordable PFOA Absorbent & Degradation Tabletop Filtration Product
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**Student(s)** Akhil Shunmugaraja **Grade** 10 **Town** South Windsor

Neelesh Sathish **Grade** 10 **Town** South Windsor

\* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

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

6501	PST	1	Watt Box
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**Student(s)** Mason Smith **Grade** 10 **Town** South Windsor

Prasun Modi **Grade** 10 **Town** South Windsor

\* Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
South Windsor	South Windsor High School	Danel Eitel	6047	PS	1	OatNET: Novel Neural Network architecture & mathematical model for reducing Dense Layer computational complexity via ternary weight decomposition & rank-1 magnitude approximation.		
Student(s)			Karthik Srikumar		Grade 10	Town	South Windsor	
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics								
Southington	Southington High School	Ismail Agirman	3060	LS	3	Mitigation of Cyclohexane Concentrations in Drinking Water using photosynthetic molecule Chlorophyll		
Student(s)			Esra Agirman		Grade 9	Town	Southington	
* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project								
Stamford	King School	Victoria Schulman	6104	PS	1	A Voice Controlled Robotic Arm for Assisting Complex Surgical Tasks		
Student(s)			Dillon Maltese		Grade 11	Town	Greenwich	
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR								
Stamford	King School	Victoria Schulman	6031	PS	2	An Effective Water Treatment Method: Adsorption of Ni(II) Ions in Water Using DNA-Wrapped Carbon Nanotubes		
Student(s)			Bruno Reinhoefer Ribeiro		Grade 11	Town	Riverside	
* Aquarion Water Company --- 1st, \$300.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management								
Stamford	King School	Victoria Schulman	3069	LS	1	Understanding the effect of nutrient additives on the growth and performance of the seaweeds Saccharina latissima and Gracilaria mammillaris		
Student(s)			Lucia Vivanco		Grade 11	Town	Stamford	
* Project Oceanology --- In1dividual - 1 Marine Science Experience Camp spot + T-Shirt & cap (swag), First Place 8, 9, 10 grader valued at \$1095								
Stamford	Laurel Springs School	Vera Ulanovskaya	6046	PS	1	Research on Autoimmune Disease Spectrometer (RAD-Spec): A Machine Learning-Based Application for Improving Accessibility to Autoimmune Research		
Student(s)			Victoria Makarov		Grade 11	Town	Stamford	
* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100								
Stratford	Saint Mark School	Alexander Kennedy	5004	P7	2	Metal Vs. Alloy, Which is Stronger?		
Student(s)			Jaxon Keeler		Grade 7	Town	Stratford	
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Trumbull	Christian Heritage School	Daniel Cote	6014	PS	2	Converting Plastic Water Bottle to 3D Printing Filament		
Student(s)			Zule Sun			Grade	11	Town Trumbull
* Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3								
Wallingford	Choate Rosemary Hall	Ben Small	3155	LS	1	Development of an AI-Enabled Pressure-Sensing Mat System and Validation of Novel Gait Biomarkers Through Multi-Sensor Fusion for Early Detection of Neurodegenerative Disorders		
Student(s)			Rhea Doshi			Grade	10	Town Farmington
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR								
Wallingford	Choate Rosemary Hall	Shiyao Gu	6086	PS	2	A Novel Fishbone-Shaped Smart Glove for Stroke Patients		
Student(s)			Jingyan Liu			Grade	9	Town Shanghai
* Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - HS \$200 * Biophysical Society --- Biophysics Award- \$100								
Wallingford	Choate Rosemary Hall	ning tang	6012	PS	1	Development of Innovative Low-Frequency Sound Absorption Structures Using Advanced Metamaterials		
Student(s)			Neil Wang			Grade	10	Town long island city
* Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist								
Wallingford	Choate Rosemary Hall	Zhiyuan Hu	3075	LS	1	Clinical Application of Early Cancer Diagnosis: Supervised and Semi-Supervised Neural Networking for the Detection and Classification of Circulating Tumor Cells		
Student(s)			Yumeng Wang			Grade	11	Town Wallingford
* Otero Family Award --- The Otero Family Award; \$250 cash								
Waterbury	ACES at Chase	Rachel Murray	5015	P7	1	Analyzing DNA		
Student(s)			Doreen Cajuste			Grade	7	Town Wolcott
* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100 * Demos R Us Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade								
Waterbury	ACES at Chase	Rachel Murray	5001	P7	3	What Materials Cause the Most Static Electricity to Light an Incandescent Light Bulb?		
Student(s)			LaRaina Johnson			Grade	7	Town Waterbury
* Constellation Energy --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy * Bushnell Center for Performing Arts --- Pair of Tickets to Illuminate Dance - for top project involving technology and lights for Arts Applications, if possible								



# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Watertown	Taft School	Amanda Benedict	3105	LS	2	Biomimetic Filtration: Applying the Voronoi Pattern of Sea Urchin Shells to Remove Lead from		
Student(s)			Dongeun Rhee		Grade 9	Town	Watertown	
* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF								
* Aquarion Water Company --- 2nd. \$250.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Managemen								
Watertown	Taft School	Amanda Benedict	6008	PS	2	Adaptive Multi-Link Portable Knee Exoskeleton		
Student(s)			Dylan Shi		Grade 10	Town	Watertown	
* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project								
* Kiev Family Awards --- 1st place - \$250 - For Excellence in Engineering High School								
Watertown	Taft School	Amanda Benedict	6067	PS	2	Bionic Shoulder Joint Based on Cable Powered Technology		
Student(s)			Yan Chak So		Grade 10	Town	Watertown	
* U.S. Air Force --- Certificate & USAF Merchandise Package								
* Kiev Family Awards --- 2nd place - \$150 - For Excellence in Engineering High School								
Westport	Greens Farms Academy	Mathieu Freeman	5523	P8	3	Investigating Modified Dental X-Rays in Novel Digital Computed Radiography Imaging for Emergency Medical Services		
Student(s)			Dylan Karpf		Grade 8	Town	Westport	
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
* Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation								
* IEEE William R. Wessman Awards --- \$100 Honorable Mention								
Westport	Greens Farms Academy	Mathieu Freeman	5506	P8	2	How Different Wing Shapes Affect The Way That Model Planes Fly		
Student(s)			Ben Kiev		Grade 8	Town	Westport	
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
Westport	Greens Farms Academy	Mathieu Freeman	3050	LS	2	Equus Caballus and Human Heart Rate Variability Synchronization as a Model for Potential Atrial Fibrillation Treatment		
Student(s)			Adeline Thompson		Grade 12	Town	Easton	
* NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies								
Westport	Staples High School	Amy Parent	3048	LS	2	The Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy (DMD) in C. Elegans		
Student(s)			Nolan Franics		Grade 11	Town	Westport	
* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF								

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Westport	Staples High School	Amy Parent	3096	LS	1	The Effect of the Nutritional Supplement, Curcumin, on Vulval induction to evaluate its role in Epidermal Growth Factor Driven Cancers		
Student(s)			Alexis Krenzer			Grade 12	Town	Westport
* RNP Regenerative Medicine Excellence Awards --- \$250 - Excellence in Translational Medicine								
Wilton	Middlebrook School	Janica Bagosy	5519	P8	3	The Effect of Screen Time on Your Body's Circadian Rhythms		
Student(s)			Kanira Baskar			Grade 8	Town	WILTON
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Wilton	Middlebrook School	Jessica Garcia	5527	P8	2	Smart Eye: Assistive Glasses for the Visually Impaired		
Student(s)			Ishan Chugh			Grade 8	Town	Wilton
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project								
* IEEE William R. Wessman Awards --- \$250 Honors Award -Junior								
* Dreams Unlimited Award --- \$150 cash award and certificate								
* Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3								
Wilton	Middlebrook School	Leah Pariso	5013	P7	1	Cell Shield: Investigating Materials to Block Non-ionizing Radiofrequency Radiation from Common Cell Phone Use		
Student(s)			Bennett Norful			Grade 7	Town	WILTON
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project								
* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$200 Cash for top project that has innovative nuclear applications								
* Kiev Family Awards --- 3rd place - \$100 - For Excellence in Engineering Middle School								
Wilton	Middlebrook School	Debbie Mallozzi	5507	P8	1	Bus Notification System with Raspberry Pi		
Student(s)			Vidit Prabhu			Grade 8	Town	Wilton
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								
* IEEE William R. Wessman Awards --- \$100 Honorable Mention								
* Society of Women Engineers - Hartford Section --- Scientific Calculator								
* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100								
Wilton	Middlebrook School	Janica Bagosy	1026	LT	1	Ocean Acidification and Its on Plant Growth		
Student(s)			Alex Shiue			Grade 8	Town	Wilton
			Kabir Rokkam			Grade 8	Town	Wilton
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners								

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Wilton	Wilton High School	Krystyna de Jacq	6010	PS	3	Leveraging natural language processing to identify real-time risk for mental health conditions among teens		
Student(s)			Jackson Norful		Grade 9	Town	WILTON	
* Bushnell Center for Performing Arts --- Pair of Tickets to a show for top project that is behavioral or social sciences related								
Windsor	Academy of Aerospace & Engineering	Thomas Brown	6096	PS	3	Investigating Aerodynamic In Shapes of Drone: How will it affect the speed, efficiency, and drag?		
Student(s)			Aulona Misini		Grade 12	Town	Hartford	
* IEEE William R. Wessman Awards --- \$100 Honorable Mention								
Windsor	Academy of Aerospace & Engineering	Charles Copeland	6109	PS	2	Using Metal Cores as a Sustainable Energy Storage Solution Optimized by an AI-Driven Model to Predict Supply-Demand Dynamics of the Energy Market		
Student(s)			Aaditya Sadhvani		Grade 9	Town	Ellington	
* Kiev Family Awards --- 3rd place - \$100 - For Excellence in Engineering High School								
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	3130	LS	2	Bioremediation of PFAS: Integrating Oyster Shell Waste from Connecticut's Oyster Trail		
Student(s)			Hyeonho Kim		Grade 9	Town	Windsor	
* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition								
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	6089	PS	2	Band-aid Hydration Monitor		
Student(s)			Ethan Liu		Grade 9	Town	Farmington	
* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2025 Invention Convention, May 3								
Windsor	The Loomis Chaffee School	Koby Osei-Mensah Koby Osei-	3107	LS	2	Differentiation and Functional Analysis of hESC - Derived Cerebral Organoids for Modelling the AUTS2 Variant		
Student(s)			JIAYI Liu		Grade 11	Town	Windsor	
* Connecticut Science Supervisors Association --- \$125 for a high school project								
Windsor	The Loomis Chaffee School	Koby Osei	6098	PS	1	A Multi-Modal Modular Robotic System: Self-Assembly and Navigation in Complex Terrains		
Student(s)			Michael Ma		Grade 9	Town	Medina	
* IEEE William R. Wessman Awards --- \$100 Honorable Mention								

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

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

6002 PS 1 A Stroke of Genius: Applying Smart Wearable Technology to Record and Improve Freestyle Stroke in Competitive Swimmers

**Student(s)** George Mirgorodskiy **Grade** 11 **Town** San Mateo

\* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nautical Research  
- \$200 Cash for top project that has innovative nautical applications

**Woodbridge** Amity Regional High School Lindsay McCarthy

6017 PS 1 Developing a Wireless, Discreet, Precise, and Painless Piezoelectric Micropump System for Diabetes Patients

**Student(s)** Joy Deng **Grade** 11 **Town** Orange

\* Society of Women Engineers - Hartford Section --- Scientific Calculator  
\* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7,500/year)  
\* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - (amount undefined) to a junior  
\* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

**Woodbridge** Amity Regional High School Sarah Reeves

3128 LS 1 Enhancing Coral Reef Resilience Through Utilizing a Two-Part Dosing System to Increase the pH levels of CO<sub>2</sub>-Acidified Ocean Water

**Student(s)** Jason Liang **Grade** 11 **Town** Woodbridge

\* Freeman Family Excellence in Chemistry Awards --- \$200 For Excellence in Chemistry or Chemical Engineering - High School

**Woodbridge** Amity Regional High School Sarah Reeves

3037 LS 1 Determining how Comorbid AUD/SUD impacts Ketamine Treatment Outcomes in Veterans with PTSD/MDD

**Student(s)** Mila Mejnartowicz **Grade** 11 **Town** Woodbridge

\* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)

**Woodbridge** Amity Regional High School Lindsay McCarthy

6076 PS 2 Developing a Solar-Powered Water Purification Device Using Hybrid Nanomaterials for Atmospheric Water Harvesting and Filtration

**Student(s)** Nikhil Petrov **Grade** 12 **Town** Woodbridge

\* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition  
\* U.S. Air Force --- Certificate & USAF Merchandise Package  
\* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

**Woodbridge** Amity Regional High School Sarah Reeves

6037 PS 3 Investigating the Relationship Between the Luminosity and the Extent of the [O III] Narrow-Line Region in Nearby Type 2 Seyfert Galaxies.

**Student(s)** Tony Zhang **Grade** 11 **Town** Woodbridge

\* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF  
\* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF  
\* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - \$100 Cash