



Conn. Science & Engineering Fair

Quinnipiac University

March 4 - 16, 2024

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

Special Awards

Alumni Botany Awards

Award Alumni High School Botany Award- \$100 Cash

School Hamden Hall Country Day School Hamden Sarrah Gavin

Project Title The effect of deforestation on soil erosion at Sleeping Giant Park

Proj. No. 3061

Student(s) Kaleb Fiore Grade 10 Town Southington, CT

Award Alumni High School Botany Award- \$100 Cash

School Manchester High School Manchester Wendy Turek-Hernandez

Project Title Determining the incidence of Beech Leaf Disease symptom severity based on overwintering nematode abundance in Fagus grandifolia buds

Proj. No. 3138

Student(s) Dina Watson Grade 12 Town Manchester

American Institute of Aeronautics & Astronautics - Connecticut Section

Award \$200 award, certificate

School Brunswick School Greenwich Dana Montanez

Project Title Inertial Navigation Control System: Use of Reaction Wheels as an in-flight Steering Mechanism for Rockets

Proj. No. 6015

Student(s) Thomas Armstrong Grade 11 Town Greenwich

Award \$200 award, certificate

School Amity Regional High School Woodbridge Catherine Piscitelli

Project Title Developing and Testing a Laminar Airfoil Utilizing Computational Fluid Dynamics to Implement Into General Aviation

Proj. No. 6020

Student(s) Alejandro Huber Grade 12 Town Woodbridge

American Psychological Association

Award	Certificate, \$25 gift card given by CSEF		
School	St. Mark School	Stratford	Alexander Kennedy
Project Title	Implicit Gender Bias		
Proj. No.	2513		
Student(s)	Julianne Gonzalez	Grade 8	Town Stratford

Award	Certificate, \$25 gift card given by CSEF		
School	Hamden Hall Country Day School	Hamden	Daniel Cuneo
Project Title	Edhelper: The Application of Artificial Intelligence in the Aid of Neurodivergent Children		
Proj. No.	3096		
Student(s)	Andrei Balas	Grade 10	Town Cheshire

Award	Certificate, \$25 gift card given by CSEF		
School	St. Mark School	Stratford	Alexander Kennedy
Project Title	Does Color Affect the Way taste is perceived?		
Proj. No.	4020		
Student(s)	Maeve McCloskey	Grade 7	Town Stratford
	Stella Testo	Grade 7	Town Stratford

Aquarion Water Company

Award	1st, \$250.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Detection of Nanoplastics within Complex Environmental and Food Resource Matrices via Machine Learning		
Proj. No.	6058		
Student(s)	Henry Jin	Grade 10	Town Greenwich

Award	1st, \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management		
School	ACES at Chase	Waterbury	Kelly Horan
Project Title	What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?		
Proj. No.	5005		
Student(s)	Jacob Godfrey	Grade 7	Town Waterbury

Award	2nd. \$100.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management		
School	Waltersville School	Bridgeport	John Cunningham
Project Title	Does Municipal/Household Infrastructure Affect the Quality of Drinking Water in Bridgeport, CT?		
Proj. No.	4008		
Student(s)	Andrea Villatoro	Grade 7	Town Bridgeport
	Genesis Reilly	Grade 7	Town Bridgeport

Award	2nd. \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Water Testing with Ease: Creation of a handheld device for Water Analysis in Recently Flooded Areas.		
Proj. No.	6516		
Student(s)	William Pallone	Grade 10	Town Rye
	Townsend Bancroft	Grade 10	Town Greenwich

Award	3rd \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environment Management		
School	Farmington High School	Farmington	Alexandra Raymunt
Project Title	Origami-Inspired Paper-Based Multiplex Device for Water Contamination Monitoring		
Proj. No.	6068		
Student(s)	Jiayi Liu	Grade 11	Town Farmington

Award	3rd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management		
School	Central Middle School	Greenwich	Andrew Bramante
Project Title	Simple Filtration of Fertilizer-ion Water Contaminants via Implementation of Phosphate and Nitrate Absorbency Pads		
Proj. No.	5504		
Student(s)	Caroline Stowe	Grade 8	Town Greenwich

Arthur & Ruth Mensing Awards

Award	Mensing Award Excellence in the High School Physical Sciences - \$500		
School	Choate Rosemary Hall	Wallingford	Andrew Murgio
Project Title	AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies		
Proj. No.	6525		
Student(s)	Jingyuan Zhang	Grade 11	Town Wallingford
	Xiyin Yang	Grade 11	Town Wallingford

Association for Women Geoscientists

Award	Certificate & \$25 gift card given by CSEF		
School	CT STEM Fair	Redding	Joyce Reed
Project Title	Determining the Ability of Different Mosses and Plants to Remove Algae Causing Phosphates and Nitrates From Water		
Proj. No.	3052		
Student(s)	Emma Cannon	Grade 11	Town New Canaan

Award	Certificate & \$25 gift card given by CSEF		
School	Norwich Technical High School	Norwich	Aleatha Pelloni
Project Title	Cultivating Green Growth: Harnessing Electroculture for Sustainable Gardening Practices		
Proj. No.	3526		
Student(s)	Sophia Caballero	Grade 11	Town Norwich
	Alejandra Cardona	Grade 11	Town New London

Award	Certificate & \$25 gift card given by CSEF		
School	Edwin O Smith High School	Mansfield	Cheryl Granger
Project Title	Why Does My Neighborhood Have Less Trees Than Yours? Geospatial Modeling of Urban Tree Cover Inequalities in Connecticut Cities		
Proj. No.	6005		
Student(s)	Hiruni Witharana	Grade 10	Town Storrs

Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence

Award	Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation		
School	Greens Farms Academy	Westport	Mathieu Freeman
Project Title	Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars		
Proj. No.	5014		
Student(s)	Dylan Karpf	Grade 7	Town Westport

Award	Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Inertial Navigation Control System: Use of Reaction Wheels as an in-flight Steering Mechanism for Rockets		
Proj. No.	6015		
Student(s)	Thomas Armstrong	Grade 11	Town Greenwich

Banning Family Life Science Award

Award For excellence in invasive species research, \$100 cash

School **Wilton High School** **Wilton** **Matthew Hoyt**

Project Title A Novel AI-Driven Approach for Tracking and Managing Invasive Plant Species

Proj. No. **3059**

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

Biophysical Society

Award Biophysics Award- \$100

School **Hamden Hall Country Day School** **Hamden** **Daniel Cuneo**

Project Title Using Quantum-assisted Machine Learning in Maize Yield Prediction through Environmental Patterns.

Proj. No. **6512**

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

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

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

Bushnell Center for Performing Arts

Award Pair of Tickets to Bushnell Center for top project that is behavioral or social sciences related

School **Greenwich Country Day School** **Greenwich** **Nathan Haag**

Project Title Antidepressant-response biomarkers in adolescents: a confirmational study using EEG

Proj. No. **3016**

Student(s) Solomon Hochman **Grade** 12 **Town** Riverside

Award Pair of Tickets to Illuminate Dance - for top project involving technology and lights for Arts Applications, if possible

School **Bridgeport Regional Aquaculture Center** **Bridgeport** **Kirk Shadle**

Project Title Acoustic Noise Pollution Affecting Reproduction, Communication, and Behavior of Brine Shrimp

Proj. No. **3134**

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

Christopher T. Borowiec Excellence in Innovation Awards

Award \$100 Cash for Excellence in Innovation with emphasis in Artificial Intelligence

School King School Stamford Victoria Schulman

Project Title DETICKT IT: A Machine Learning-Based Application for Real-Time Tick Identification and Spatiotemporal Disease Risk Assessment

Proj. No. 6097

Student(s) Antonia Kolb Grade 12 Town New Canaan

Award \$100 Cash for Excellence in Planetary Science

School Talcott Mountain Academy Avon John Pellino

Project Title The Aura Project: Landing Rockets at a Model Scale

Proj. No. 5009

Student(s) Kwabena Addai - Boateng Grade 8 Town East Hartford

Connecticut Academy of Audiology Awards

Award \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

School Sacred Heart Academy Hamden Sibani Sengupta

Project Title The Effect of Sound Pollution on the Physical Behavior of Armadillidium Vulgare

Proj. No. 3117

Student(s) Danyella Lanche-Flores Grade 12 Town West Haven

Award \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

School Christian Heritage School Trumbull Daniel Cote

Project Title Text to Speech and Speech to Text App for the Hearing Impaired

Proj. No. 6037

Student(s) Noah Scrofani Grade 11 Town Trumbull

Connecticut Association of Physics Teachers

Award \$100 Senior project

School Bridgeport Regional Aquaculture Center Bridgeport Kirk Shadle

Project Title Synthesis of Conductive Optical Lenses with Variable Refractive Indices: The Kerr Effect

Proj. No. 6070

Student(s) Cole Galla Grade 12 Town Trumbull

Connecticut College-Physics, Astronomy, & Geophysics Dept.

Award	Junior Award: Certificate, \$100 Cash		
School	Saint James School	Manchester	Ellen Oei
Project Title	Affect of Color on Heat Absorption		
Proj. No.	5007		
Student(s)	Saanvi Sethi	Grade 7	Town Manchester

Award	Senior Award: Certificate, \$100 Cash		
School	Darien High School	Darien	Christine Leventhal
Project Title	Simulating CMB temperature signal to analyze the effects of noise		
Proj. No.	6082		
Student(s)	Bo-Jun Qin	Grade 12	Town Darien

Connecticut Invention Convention "Next Step Inventors"

Award	Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8		
School	Westside Middle School Academy	Danbury	Nancy Barlow
Project Title	Building a Versatile Air Sensor That Can Detect PM10 & PM2.5 in the Air		
Proj. No.	4012		
Student(s)	Sarvesh Ram Sankarnarayan	Grade 8	Town Danbury
	Gabrielle Anderson	Grade 8	Town Danbury
	Eleftherios Amperidis	Grade 8	Town Danbury, Ct

Award	Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8		
School	ACES at Chase	Waterbury	Sandra Solimene
Project Title	The Bag that Saved the Homeless		
Proj. No.	5503		
Student(s)	Evaleise Diaz	Grade 8	Town Meriden

Award	Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8		
School	Dodd Middle School	Cheshire	Katie Kearney
Project Title	The Irrigator- a sustainable solution for gardening		
Proj. No.	5509		
Student(s)	Olivia Dixon	Grade 8	Town Cheshire

Award	Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8		
School	The Hotchkiss School	Salisbury	Sid Yenugu
Project Title	A Resilient & Cost-Effective Prosthetic Device Tailored for the Accelerated Growth of Children		
Proj. No.	6103		
Student(s)	Sia Reddy	Grade 10	Town Avon

Award	Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8		
School	Choate Rosemary Hall	Wallingford	Selena Gell
Project Title	Construction of a Low-cost, Accurate Liquid Handling Device with 3D Printing for Polymerase Chain Reaction		
Proj. No.	6502		
Student(s)	Calvin Moon	Grade 12	Town Wallingford
	Jeffrey Moon	Grade 11	Town Wallingford

Award	Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Biodegradable Mylar: A Materials Investigation to Reduce Marine Life Fatalities.		
Proj. No.	6510		
Student(s)	Sean Mensi	Grade 9	Town Katonah
	Lincoln O'Donohue	Grade 10	Town Old Greenwich

Connecticut Science Supervisors Association

Award	\$125 for a high school project		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Fabrication of a Europium-based Magnetic Nanosensor for the Detection of D-Serine in Early-onset Alzheimers		
Proj. No.	3071		
Student(s)	Ava Jackson	Grade 11	Town Old Greenwich

Award	\$125 for a middle school project		
School	Eastern Middle School	Greenwich	Andrew Bramante
Project Title	Design of a Smart-Bandage to provide lasting Itch-Relief and Healing for an Insect Bite.		
Proj. No.	2501		
Student(s)	Lily Bittman	Grade 8	Town Greenwich

CSEF Board of Directors Award

Award	Certificate and \$200 given by CSF		
School	Avon High School	Avon	John Salerni
Project Title	Defining the Significance of Inflammation in Atherosclerosis by Examining Cross-Cohort Transcriptomics Using R and Deep Learning Programs		
Proj. No.	3508		
Student(s)	Phydena Liu	Grade 10	Town Avon
	Lauren Zhang	Grade 11	Town Darien

Award	Certificate and \$200 given by CSF		
School	Farmington High School	Farmington	Alexandra Raymunt
Project Title	The impact of different levels of spf on the pigmentation of one's skin		
Proj. No.	3511		
Student(s)	Lauren Jeong	Grade 11	Town Farmington
	Lydia Kim	Grade 11	Town Farmington

Award	Certificate and \$200 given by CSF		
School	Fairchild Wheeler Biotechnology	Bridgeport	Marilyn Carolina
Project Title	Testing the Efficacy of Biochar Source Materials in Filtering Heavy Metal Pollution from the Housatonic River in CT		
Proj. No.	3520		
Student(s)	Angeline Tran	Grade 12	Town Shelton
	Phi Uanino	Grade 12	Town Shelton

CT Architecture Foundation - The William M. Mack, AIA Award

Award	\$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Performance.		
School	Platt Technical High School	Milford	Lori Grace
Project Title	NatureCare Project		
Proj. No.	3502		
Student(s)	Diogo Gaudencio	Grade 12	Town bridgeport
	Yossias Mulualem	Grade 12	Town ansonia
	Maritza Portillo	Grade 12	Town west haven

Award	\$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Sustainability.		
School	Darien High School	Darien	Guy Pratt
Project Title	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		
Proj. No.	6064		
Student(s)	Evelyn Trudel	Grade 12	Town Darien

Demos R Us Awards

Award	\$150 Cash Award-- Clear Execution of Research- 7th Grade		
School	Greens Farms Academy	Westport	Mathieu Freeman
Project Title	Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars		
Proj. No.	5014		
Student(s)	Dylan Karpf	Grade 7	Town Westport

Award	\$200 Cash Award- Clear Execution of Research- 8th Grade		
School	ACES at Chase	Waterbury	Sandra Solimene
Project Title	The Bag that Saved the Homeless		
Proj. No.	5503		
Student(s)	Evaleise Diaz	Grade 8	Town Meriden

Dreams Unlimited Award

Award	\$150 cash award and certificate		
School	Cheshire High School	Cheshire	Julie Barker
Project Title	A Torticollis Tilt Alerting Device using MPU6050 Sensor, Vibration motor, and iOS and Android App Built Using Flutter		
Proj. No.	6045		
Student(s)	Suchita Srinivasan	Grade 10	Town Cheshire

Electric Boat Management Association Science and Engineering Research Awards

Award	Top Prize in Nautical Research - \$100 Cash for top project that has innovative nautical applications		
School	South Windsor High School	South Windsor	Joshua Kraus
Project Title	A novel approach to a biomimetic undersea generator aided by triboelectric nanogenerators to harness natural ocean currents		
Proj. No.	6035		
Student(s)	Pranay Kakkar	Grade 11	Town South Windsor

Award	Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications		
School	Greens Farms Academy	Westport	Mathieu Freeman
Project Title	Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars		
Proj. No.	5014		
Student(s)	Dylan Karpf	Grade 7	Town Westport

Frederick Olender USC Award in Memory of G. Robert Wisner

Award	\$250 Cash Award for HS student in USC school		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Reduced Carbon Dioxide Emission and Increased Energy Efficiency Via a Newly-Designed Superconductive Cryogenic Brushless DC Motor		
Proj. No.	6053		
Student(s)	Ishan Ambastha	Grade 11	Town Riverside

Freeman Family Excellence in Chemistry Awards

Award	\$100 For Excellence in Chemistry or Chemical Engineering - Middle School		
School	Westside Middle School Academy	Danbury	Nancy Barlow
Project Title	The Effectiveness of Different Distillation Methods for Desalination		
Proj. No.	4007		
Student(s)	Siddanth Ramakrishnan	Grade 7	Town Danbury
	Patrick Madden	Grade 7	Town Danbury

Award	\$200 For Excellence in Chemistry or Chemical Engineering - High School		
School	Hamden Hall Country Day School	Hamden	Frank Gasparro
Project Title	Effect of Hydroxyapatite Encapsulation on the Transdermal Diffusion and Photodegradation of Avobenzone and Octinoxate to Enhance Sunscreen Safety		
Proj. No.	3017		
Student(s)	Sophia Vash	Grade 10	Town Fairfield CT

GENIUS Olympiad

Award	GENIUS Olympiad Competition for 1st Place HS Environmental Project		
School	South Windsor High School	South Windsor	Danel Eitel
Project Title	MushBox: In Situ Biodegradation of Municipal Solid Waste through Mycoremediation via Mycelium and Cellulosic Waste Integration		
Proj. No.	3524		
Student(s)	Samarth Basanth	Grade 10	Town South Windsor
	Tejbir Litt	Grade 10	Town South Windsor

Award	GENIUS Olympiad Competition for 1st Place Technical High School		
School	Norwich Technical High School	Norwich	Aleatha Pelloni
Project Title	Renewable fuel using anaerobic digestion		
Proj. No.	3509		
Student(s)	Jasmine Coulombe	Grade 11	Town Chaplin
	Tessa Lambert	Grade 11	Town Scotland

Award	GENIUS Olympiad Competition for Highest Placing USC 8th grade Project		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface		
Proj. No.	4011		
Student(s)	Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clottey	Grade 8	Town Hartford

Award	GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Sonic Repulsion of Purple Sea Urchins to Reduce Degradation of Nascent Nereocystis luetkeana Forests		
Proj. No.	3025		
Student(s)	Owen Benison	Grade 11	Town riverside

Award	GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions		
Proj. No.	3054		
Student(s)	Namyanzi Edwards	Grade 11	Town New Britain

Award	GENIUS Olympiad Competition for 1st Place HS Future Sustainability		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Biomimicry to Harvest Energy from the Sinusoidal Motion of an Eel		
Proj. No.	6079		
Student(s)	Vikram Haran	Grade 11	Town Ellington

Geology/Historic Project of Merit Award

Award	\$150 or 3 x \$50 - Earth Science - Field work with Geologic or historic value		
School	Westside Middle School Academy	Danbury	Nancy Barlow
Project Title	The Effect of Different Types of Grass on Soil Erosion		
Proj. No.	1025		
Student(s)	Sayam Dand	Grade 8	Town Danbury
	Kylie Capone	Grade 8	Town Danbury
	Ayme Calero	Grade 8	Town danbury

IEEE, Connecticut Section

Award	\$100 Honorable Mention		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface		
Proj. No.	4011		
Student(s)	Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clotey	Grade 8	Town Hartford

Award	\$100 Honorable Mention		
School	Chiaravalle Academy	Enfield	Tim Coleman
Project Title	Using Solar to Generate Electricity.		
Proj. No.	4022		
Student(s)	Keenan Cieslak	Grade 8	Town Monson
	Beau Dugas	Grade 8	Town Enfield
	Michael Bielanski	Grade 8	Town Enfield

Award	\$100 Honorable Mention		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Integrating Piezoelectric Sensors and Photovoltaic Material in an Artificial Energy-Harvesting Model Tree		
Proj. No.	6002		
Student(s)	Laasya Chintapalli	Grade 11	Town Farmington

Award	\$100 Honorable Mention		
School	Amity Regional High School	Woodbridge	Catherine Piscitelli
Project Title	Modeling Interactions Between the Neocortex and the Basal Ganglia During Temporal Sequential Learning Using a Hierarchical Temporal Memory Artificial Neural Network		
Proj. No.	6098		
Student(s)	Annika Yun	Grade 12	Town Orange

Award	\$100 Honorable Mention		
School	South Windsor High School	South Windsor	Danel Eitel
Project Title	The Use of Piezoelectric Technology for a more Efficient and Cost-Effective Approach to Electronics Cooling		
Proj. No.	6501		
Student(s)	Adithya Anand	Grade 11	Town South Windsor
	Jason Thokchom	Grade 11	Town South Windsor

Award	\$250 Honors Award -Senior		
School	Choate Rosemary Hall	Wallingford	Andrew Murgio
Project Title	AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies		
Proj. No.	6525		
Student(s)	Jingyuan Zhang	Grade 11	Town Wallingford
	Xiyin Yang	Grade 11	Town Wallingford

Award	\$250 Honors Award -Senior		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions		
Proj. No.	3054		
Student(s)	Namyanzi Edwards	Grade 11	Town New Britain

Institute of Food Technologists, Nutmeg Section

Award	\$100 award + invitation to Awards Night Dinner with guest		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Using Mineral Packed Liposomes to Increase Plant Growth in Arid Environments		
Proj. No.	3507		
Student(s)	Henry Johnson	Grade 11	Town Riverside
	Tucker Spiess	Grade 11	Town Old Greenwich

Award	\$150 award + invitation to Awards Night Dinner with guest		
School	Farmington High School	Farmington	Alexandra Raymunt
Project Title	Steeping Towards Safety: Addressing Mycotoxin Risks in Coffee and Tea		
Proj. No.	6054		
Student(s)	Rhea Doshi	Grade 9	Town Farmington

Award	\$50 award + invitation to Awards Night Dinner with guest		
School	Fairchild Wheeler Biotechnology	Bridgeport	Cynthia Crudale
Project Title	Shoots vs. Roots: The Effect of Hormone Treated Media on Lettuce Growth		
Proj. No.	3069		
Student(s)	Naomi Rosen	Grade 12	Town Fairfield

ISA - International Society for Automation - Ct. Valley Section

Award	1st - \$125 award		
School	Farmington High School	Farmington	Alexandra Raymunt
Project Title	Origami-Inspired Paper-Based Multiplex Device for Water Contamination Monitoring		
Proj. No.	6068		
Student(s)	Jiayi Liu	Grade 11	Town Farmington

Award	2nd - \$75 award		
School	Westside Middle School Academy	Danbury	Nancy Barlow
Project Title	Building a Versatile Air Sensor That Can Detect PM10 & PM2.5 in the Air		
Proj. No.	4012		
Student(s)	Sarvesh Ram Sankarnarayan	Grade 8	Town Danbury
	Gabrielle Anderson	Grade 8	Town Danbury
	Eleftherios Amperidis	Grade 8	Town Danbury, Ct

Award	3rd - \$50 award		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	The Efficiency of Toroidal Propellers on Plane Engines and Boat Propellers		
Proj. No.	6522		
Student(s)	Thomas Carney	Grade 10	Town New Canaan
	Pierce Crosby	Grade 10	Town Greenwich

J.A. Augustine and H. Glista Awards

Award	\$100 for excellence in Life Sciences		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	Utilizing Fucus distichus alginates to develop an enhanced aerosol treatment for Cystic Fibrosis		
Proj. No.	3077		
Student(s)	Mia Nierenberg	Grade 12	Town Stratford

Award	\$100 for excellence in Physical Sciences		
School	Saint James School	Manchester	Ellen Oei
Project Title	Affect of Color on Heat Absorption		
Proj. No.	5007		
Student(s)	Saanvi Sethi	Grade 7	Town Manchester

Award	\$100 H. Glista Award for Physical Sciences		
School	Kent School	Kent	Jesse Klingebiel
Project Title	CardioXNet: Representation Learning for Accurate Cardiovascular Disease Diagnosis from X-ray Images		
Proj. No.	6032		
Student(s)	Jiwon Hwang	Grade 10	Town Kent

Jon Chapis Memorial Award

Award	Jon Chapis Spirit of Innovation Award - HS \$200		
School	Choate Rosemary Hall	Wallingford	Selena Gell
Project Title	Construction of a Low-cost, Accurate Liquid Handling Device with 3D Printing for Polymerase Chain Reaction		
Proj. No.	6502		
Student(s)	Calvin Moon	Grade 12	Town Wallingford
	Jeffrey Moon	Grade 11	Town Wallingford

Award Jon Chapitis Spirit of Innovation Award - MS \$100

School Academy of Aerospace and Engineering Windsor Michelle Bellinger

Project Title Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface

Proj. No. 4011

Student(s)	Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clottey	Grade 8	Town Hartford

Jon Stone Memorial Award

Award Jon Stone Award for Innovative Engineering- \$100

School Academy of Aerospace and Engineering Windsor Michelle Bellinger

Project Title Integrating Piezoelectric Sensors and Photovoltaic Material in an Artificial Energy-Harvesting Model Tree

Proj. No. 6002

Student(s)	Laasya Chintapalli	Grade 11	Town Farmington
-------------------	--------------------	-----------------	------------------------

Award Jon Stone Award for Innovative Engineering- \$100

School South Windsor High School South Windsor Danel Eitel

Project Title The Use of Piezoelectric Technology for a more Efficient and Cost-Effective Approach to Electronics Cooling

Proj. No. 6501

Student(s)	Adithya Anand	Grade 11	Town South Windsor
	Jason Thokchom	Grade 11	Town South Windsor

Lemelson Early Inventor Award

Award Certificate & \$100 cash award from Lemelson Foundation

School Talcott Mountain Academy Avon John Pellino

Project Title The Boreabrush

Proj. No. 2520

A new tool in personal dental hygiene

Student(s)	Oliver Lind	Grade 8	Town Harwinton
-------------------	-------------	----------------	-----------------------

Lunch with a Patent Attorney

Award	Lunch with a Patent Attorney		
School	Hamden Hall Country Day School	Hamden	Gina D'Angelo
Project Title	Deep learning based drug response prediction algorithm about synergistic and antagonistic responses of cell lines and drug combos.		
Proj. No.	6025		
Student(s)	Jiahui Chen	Grade 11	Town New Haven

Award	Lunch with a Patent Attorney		
School	Cheshire High School	Cheshire	Julie Barker
Project Title	A Torticollis Tilt Alerting Device using MPU6050 Sensor, Vibration motor, and iOS and Android App Built Using Flutter		
Proj. No.	6045		
Student(s)	Suchita Srinivasan	Grade 10	Town Cheshire

Maplesoft Awards for Applied Mathematics and Modeling

Award	Maple software, , gift packs, & T-shirt - For Excellence in Mathematics		
School	Choate Rosemary Hall	Wallingford	Jan Cook
Project Title	Properties of Certain Quadrilaterals of Triangle Centers		
Proj. No.	6051		
Student(s)	Kay Yeon Lee	Grade 11	Town Wallingford

Award	Maple software, gift packs, & T-shirt - For Excellence in Mathematics		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Reinforcement Learning Optimization of Placement of Public Vehicle Charging Stations using a Novel Parking Demand Model		
Proj. No.	6019		
Student(s)	Marley Wies	Grade 10	Town Old Greenwich

MTU Aero Engines North America, Inc.

Award	MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250		
School	Choate Rosemary Hall	Wallingford	Andrew Murgio
Project Title	AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies		
Proj. No.	6525		
Student(s)	Jingyuan Zhang	Grade 11	Town Wallingford
	Xiyin Yang	Grade 11	Town Wallingford

Award	MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250		
School	The Loomis Chaffee School	Windsor	Koby Osei-Mensah
Project Title	A Deep Semi-Supervised Domain Generalization Approach for Epileptic Seizure Prediction using Electro Encephalography (EEG)		
Proj. No.	6044		
Student(s)	Sunwoo An	Grade 9	Town Seoul

NASA EARTH System Science Award

Award	Certificate and \$25 gift card given by CSEF		
School	Joseph A. Depaolo Middle School	Southington	Halime Agirman
Project Title	Global Warming Management through Utilization of naturally occurring resources such as Eggshell-Derived Calcium Carbonate in Global Warming Reduction		
Proj. No.	2514		
Student(s)	Esra Agirman	Grade 8	Town Southington

Award	Certificate and \$25 gift card given by CSEF		
School	King School	Stamford	Erik Rutyna
Project Title	Utilizing Ground and Space-Based Sensors to Track Trajectories of Vehicles/Dangerous Objects and Monitor Climate Change/Environmental Issues		
Proj. No.	6078		
Student(s)	Ryan Wempen	Grade 12	Town Stamford

Award	Certificate and \$25 gift card given by CSEF		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Genetic Engineering of Cryobacterium to Increase Silica Content and Enhance the Glacial Albedo of Black Arctic Oceans		
Proj. No.	6081		
Student(s)	Justin Bernstein	Grade 11	Town Greenwich

National Center for Inquiry Learning

Award	Daniel & Maggie Award for Imagination - MS \$100		
School	Joseph A. Depaolo Middle School	Southington	Halime Agirman
Project Title	Global Warming Management through Utilization of naturally occurring resources such as Eggshell-Derived Calcium Carbonate in Global Warming Reduction		
Proj. No.	2514		
Student(s)	Esra Agirman	Grade 8	Town Southington

Award	Daniel & Maggie Award for Imagination - MS \$100		
School	ACES at Chase	Waterbury	Kelly Horan
Project Title	What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?		
Proj. No.	5005		
Student(s)	Jacob Godfrey	Grade 7	Town Waterbury

National Oceanic and Atmospheric Administration

Award	Certificate and \$25 gift card given by CSEF		
School	Christian Heritage School	Trumbull	Nicole Camacho
Project Title	Do Storm drains keep trash out of water ways?		
Proj. No.	2517		
Student(s)	Juliette Schwartz	Grade 8	Town Shelton

Award	Certificate and \$25 gift card given by CSEF		
School	St. Michael School	Stonington	Anna-Helene Grossomanides
Project Title	Determining the Impact of pH on Seashell Dissolution		
Proj. No.	5501		
Student(s)	Addison Cadmus	Grade 8	Town Pawcatuck

Award	Certificate and \$25 gift card given by CSEF		
School	Sound School	New Haven	Charles Mulligan
Project Title	Potential Impact of Watershed Runoff and Tidal Inundation on the Hydrologic Profile of a Coastal March		
Proj. No.	6511		
Student(s)	Cora FitzGerald	Grade 11	Town Guilford
	Tamzin Maines	Grade 11	Town Old Saybrook

NYUC Pony Club Equine or Animal Science Award

Award	\$100 Cash Award for excellence in equine studies		
School	Worthington Hooker School	New Haven	Douglas Jones
Project Title	Biodegradable Hydrogels: Improving our Agriculture's Sustainability		
Proj. No.	1020		
Student(s)	Sofia Janiga	Grade 8	Town New Haven
	Azalea Deener	Grade 8	Town New Haven

Award	\$100 Cash Award or excellence in equine studies		
School	CT STEM Fair	Redding	Joyce Reed
Project Title	Determining the Ability of Different Mosses and Plants to Remove Algae Causing Phosphates and Nitrates From Water		
Proj. No.	3052		
Student(s)	Emma Cannon	Grade 11	Town New Canaan

Office of Naval Research- U.S. Navy / U.S. Marine Corps

Award	HS School- Certificate, \$75.00 gift card given by ONR		
School	Saint Bernard School	Montville	Alexandros Mathioudakis
Project Title	Making Football Safer With The Smart Helmet		
Proj. No.	6011		
Student(s)	Palmer Noe	Grade 10	Town East Lyme

Award	HS School- Certificate, \$75.00 gift card given by ONR		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	Magnetohydrodynamic (MHD) Salt Water Generator: Harnessing energy from flowing salt water without moving parts		
Proj. No.	6060		
Student(s)	Samuel DiVasto	Grade 12	Town Trumbull

Award	HS School- Certificate, \$75.00 gift card given by ONR		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	Synthesis of Conductive Optical Lenses with Variable Refractive Indices: The Kerr Effect		
Proj. No.	6070		
Student(s)	Cole Galla	Grade 12	Town Trumbull

Award	HS School- Certificate, \$75.00 gift card given by ONR		
School	Ellington High School	Ellington	David Gerlach
Project Title	Developing an Adaptable Metal Casting Mold Using Soft Robotics		
Proj. No.	6074		
Student(s)	Thomas Gerlach	Grade 9	Town Ellington

Award	HS School- Certificate, \$75.00 gift card given by ONR		
School	Christian Heritage School	Trumbull	Daniel Cote
Project Title	Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses		
Proj. No.	6102		
Student(s)	Daylin Jerome	Grade 11	Town Bridgeport

Award	HS School- Certificate, \$75.00 gift card given by ONR		
School	The Hotchkiss School	Salisbury	Sid Yenugu
Project Title	A Resilient & Cost-Effective Prosthetic Device Tailored for the Accelerated Growth of Children		
Proj. No.	6103		
Student(s)	Sia Reddy	Grade 10	Town Avon

Award	Middle School- Certificate, \$25 gift card given by CSEF		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Combining Optical Wireless Communications (OWC) and Neuromorphic Architecture for Large-Scale Computations		
Proj. No.	4001		
Student(s)	Rithvik Suren	Grade 8	Town Ellington
	Aarav Chevva	Grade 8	Town Ellington

Award	Middle School- Certificate, \$25 gift card given by CSEF		
School	Westside Middle School Academy	Danbury	Nancy Barlow
Project Title	The Effectiveness of Different Distillation Methods for Desalination		
Proj. No.	4007		
Student(s)	Siddanth Ramakrishnan	Grade 7	Town Danbury
	Patrick Madden	Grade 7	Town Danbury

Award	Middle School- Certificate, \$25 gift card given by CSEF		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface		
Proj. No.	4011		
Student(s)	Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clotney	Grade 8	Town Hartford

Award	Middle School- Certificate, \$25 gift card given by CSEF		
School	Middlebrook School	Wilton	Nancy Wakeham
Project Title	Wireless Power Transfer - Future of Energy		
Proj. No.	5010		
Student(s)	Ishan Chugh	Grade 7	Town Wilton

Otero Family Award

Award	The Otero Family Award; \$250 cash		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Implementation of a Multi-Objective Genetic Algorithm to Optimize Resource Allocation in Disease Prevention		
Proj. No.	3113		
Student(s)	Isaac Bell	Grade 10	Town Riverside

Project Oceanology

Award	Individual - 1 Ocean Camp slot + T-Shirt & cap (swag), First Place 8, 9, 10 grader		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Sonic Repulsion of Purple Sea Urchins to Reduce Degradation of Nascent Nereocystis luetkeana Forests		
Proj. No.	3025		
Student(s)	Owen Benison	Grade 11	Town riverside

Regeneron Biomedical Science Award

Award	Certificate & \$375.00 cash		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Oral Delivery of Anticoagulant Dabigatran via a Mg-Micromotor Encapsulant Within a Gastric-Resistant Tablet for Ischemic Stroke Treatment		
Proj. No.	3020		
Student(s)	Lula Wang	Grade 9	Town Old Greenwich

Ricoh Americas Corporation

Award	Certificate, \$25 gift card given by CSEF		
School	ACES at Chase	Waterbury	Lisa Debany
Project Title	Creating Safe Sunscreens For Coral Reefs With The Best U.V. Protection.		
Proj. No.	1007		
Student(s)	Emily Ambrosini	Grade 7	Town Watertown
	Taylor Boscarino	Grade 7	Town Thomaston

Award	Certificate, \$25 gift card given by CSEF		
School	ACES at Chase	Waterbury	Waterbury
Project Title	Leaf Light Chlorophyll light bulb		
Proj. No.	2511		
Student(s)	Toren Lott	Grade 8	Town Waterbury

Robert Francoeur Memorial Awards

Award	Creative or innovative project in engineering, computer science or mathematics by female students - \$100		
School	St. Matthew School	Bristol	Danielle Persichetti
Project Title	Which Drink Has the Most Electrolytes?		
Proj. No.	5004		
Student(s)	Lily Chou	Grade 7	Town Bristol

Award	Creative or innovative project in engineering, computer science or mathematics by female students - \$100		
School	Cheshire High School	Cheshire	Julie Barker
Project Title	A Torticollis Tilt Alerting Device using MPU6050 Sensor, Vibration motor, and iOS and Android App Built Using Flutter		
Proj. No.	6045		
Student(s)	Suchita Srinivasan	Grade 10	Town Cheshire

Robotics And Beyond

Award	Middle School- For excellence in engineering design; \$230 toward Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp, Certificate.		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Vortex Hydropower Turbines to Harvest Electrical Energy		
Proj. No.	4019		
Student(s)	Marcus Davis	Grade 8	Town Broad Brook
	Dylan Gao	Grade 7	Town Coventry

Schoepfer Award for Excellence in Local Aquatic Science

Award	For excellence in a local water quality study, \$100 cash		
School	Christian Heritage School	Trumbull	Nicole Camacho
Project Title	Do Storm drains keep trash out of water ways?		
Proj. No.	2517		
Student(s)	Juliette Schwartz	Grade 8	Town Shelton

Society for In Vitro Biology

Award	Certificate and \$25 gift card given by CSEF		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions		
Proj. No.	3054		
Student(s)	Namyanzi Edwards	Grade 11	Town New Britain

Award	Certificate and \$25 gift card given by CSEF		
School	Wilton High School	Wilton	Matthew Hoyt
Project Title	The Influence of Natural and Man-Made Substrata on Intertidal Community Structure		
Proj. No.	3065		
Student(s)	Nandan Raman	Grade 11	Town Wilton

Award	Certificate and \$25 gift card given by CSEF		
School	Norwich Technical High School	Norwich	Aleatha Pelloni
Project Title	Cultivating Green Growth: Harnessing Electroculture for Sustainable Gardening Practices		
Proj. No.	3526		
Student(s)	Sophia Caballero	Grade 11	Town Norwich
	Alejandra Cardona	Grade 11	Town New London

Society of Women Engineers - Hartford Section

Award	Scientific Calculator		
School	Central Middle School	Greenwich	Andrew Bramante
Project Title	The Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification		
Proj. No.	5514		
Student(s)	Mikah Kaalund	Grade 8	Town Greenwich

Award	Scientific Calculator		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Integrating Piezoelectric Sensors and Photovoltaic Material in an Artificial Energy-Harvesting Model Tree		
Proj. No.	6002		
Student(s)	Laasya Chintapalli	Grade 11	Town Farmington

Award	Scientific Calculator		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Reinforcement Learning Optimization of Placement of Public Vehicle Charging Stations using a Novel Parking Demand Model		
Proj. No.	6019		
Student(s)	Marley Wies	Grade 10	Town Old Greenwich

Award	Scientific Calculator		
School	Norwich Technical High School	Norwich	Suzanne Edwards
Project Title	A Mathematical Analysis of the Variables Impacting the Performance of Wind Turbines as the Energy Converts from Kinetic to Mechanical to Electrical		
Proj. No.	6066		
Student(s)	Leah Kozerefski	Grade 9	Town Gilman

Southeastern New England Marine Educators (SENEME)

Award \$100 award and membership for student and teacher in SENEME - 1st Place Junior

School **Central Middle School** **Greenwich** **Andrew Bramante**

Project Title Modeling of Fairfield County Fresh-water and Estuary Waterways, to Highlight Contamination of their Ecosystems/Environments

Proj. No. **2507**

Student(s) Briar Lissauer **Grade** 8 **Town** Greenwich

Award \$100 award and membership for student and teacher in SENEME - 1st Place Senior

School **Farmington High School** **Farmington** **Alexandra Raymunt**

Project Title Origami-Inspired Paper-Based Multiplex Device for Water Contamination Monitoring

Proj. No. **6068**

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

Stockholm Junior Water Prize

Award Certificate, \$25 gift card by CSEF, possible advance to further competition

School **Greenwich High School** **Greenwich** **Andrew Bramante**

Project Title Iron-Fortified Cornhusk Biochar Flocculation of Pondwater Phosphates, to Reduce Invasive Macrophyte Growth

Proj. No. **3003**

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

Award Certificate, \$25 gift card by CSEF, possible advance to further competition

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

Project Title Implementing the Usage of Nontoxic Sand and Bacterial Filtration in the Enhanced Degradation of Emerging Contaminants in Aqueous Solutions

Proj. No. **3118**

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

Award Certificate, \$25 gift card by CSEF, possible advance to further competition

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

Project Title Advanced Hybrid Water Treatment Systems: A Comparative Study of Membrane Filtration, Adsorption, and Photocatalysis for Comprehensive Contaminant Removal

Proj. No. **3126**

Student(s) Saket Aliminate **Grade** 10 **Town** Milford

Award	Certificate, \$25 gift card by CSEF, possible advance to further competition		
School	Engineering and Science University Magnet	New Haven	Alyssa Anderson
Project Title	Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for Adsorptive Removal of Microplastics and Oil from Contaminated Water		
Proj. No.	6052		
Student(s)	Snigtha Mohanraj	Grade 11	Town Ansonia

Susan and Stanley Lessoff Memorial

Award	Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS		
School	Choate Rosemary Hall	Wallingford	Jan Cook
Project Title	Properties of Certain Quadrilaterals of Triangle Centers		
Proj. No.	6051		
Student(s)	Kay Yeon Lee	Grade 11	Town Wallingford

Award	Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS		
School	Christian Heritage School	Trumbull	Daniel Cote
Project Title	Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses		
Proj. No.	6102		
Student(s)	Daylin Jerome	Grade 11	Town Bridgeport

Talcott Mountain Science Center & Academy

Award	TMSC Founder's Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$435		
School	Joseph A. Depaolo Middle School	Southington	Halime Agirman
Project Title	Global Warming Management through Utilization of naturally occurring resources such as Eggshell-Derived Calcium Carbonate in Global Warming Reduction		
Proj. No.	2514		
Student(s)	Esra Agirman	Grade 8	Town Southington

Award	TMSC Founder's Award - Middle School Physical Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$435		
School	St. Michael School	Stonington	Anna-Helene Grossomanides
Project Title	Expensive Fails or, Long Lasting Nails		
Proj. No.	5008		
Student(s)	Maeve Nicholas	Grade 7	Town Stonington

The Community Foundation for Greater New Haven's Milton Fisher Awards for

Award For Excellence in Creativity and Innovation by a High School student, \$100 cash

School Academy of Aerospace and Engineering Windsor Michelle Bellinger

Project Title Therapeutic Potential of Antibody Drug Conjugates Targeting The Expression of Trophoblast Cell-Surface Antigen 2 (TROP-2) On High Grade Serous Epithelial Ovarian Carcinoma

Proj. No. 3004

Student(s) Ana-Lois Davis **Grade** 12 **Town** Broad Brook

Award For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

School Academy of Aerospace and Engineering Windsor Michelle Bellinger

Project Title Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface

Proj. No. 4011

Student(s) Palaniappan Manikandan **Grade** 8 **Town** Ellington

Duke Clotney **Grade** 8 **Town** Hartford

The Community Foundation for Greater New Haven Ecology, Environmental, and

Award Urban Public School Environmental / Energy Award - \$250

School Academy of Aerospace and Engineering Windsor Michelle Bellinger

Project Title Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions

Proj. No. 3054

Student(s) Namyanzi Edwards **Grade** 11 **Town** New Britain

Award Urban Public School Environmental / Energy Award - \$250

School Westside Middle School Academy Danbury Nancy Barlow

Project Title Building a Versatile Air Sensor That Can Detect PM10 & PM2.5 in the Air

Proj. No. 4012

Student(s) Sarvesh Ram Sankarnarayan **Grade** 8 **Town** Danbury

Gabrielle Anderson **Grade** 8 **Town** Danbury

Eleftherios Amperidis **Grade** 8 **Town** Danbury, Ct

Award Urban Public School Environmental / Energy Award - \$250

School Engineering and Science University Magnet New Haven Alyssa Anderson

Project Title Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for Adsorptive Removal of Microplastics and Oil from Contaminated Water

Proj. No. 6052

Student(s) Snigtha Mohanraj **Grade** 11 **Town** Ansonia

Thermo Fisher Scientific Junior Innovators Challenge

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Middlebrook School	Wilton	William Desroches
Project Title	Beat The Peat - Rice Husk, The Sustainable And Eco-Friendly Alternative to Peat Moss		
Proj. No.	1017		
Student(s)	Kabir Rokkam	Grade 7	Town Wilton
	Shushruth Balaji	Grade 7	Town Wilton

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	St. Matthew School	Bristol	Danielle Persichetti
Project Title	Which Moisturizer is Best?		
Proj. No.	2002		
Student(s)	Lauren Gillis	Grade 7	Town Bristol

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	ACES at Chase	Waterbury	Lisa Debany
Project Title	Reducing Lycorma delicatula, Lantern Fly, Infestation: Using Essential Oils to Address Crop Damage and Food Shortages.		
Proj. No.	2005		
Student(s)	Besjana Velju	Grade 7	Town Waterbury

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Central Middle School	Greenwich	Andrew Bramante
Project Title	Development of a Simple Salivary Rapid Diagnostic for the Detection of Iodine Deficiencies		
Proj. No.	2516		
Student(s)	Tyler Malkin	Grade 8	Town Greenwich

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Combining Optical Wireless Communications (OWC) and Neuromorphic Architecture for Large-Scale Computations		
Proj. No.	4001		
Student(s)	Rithvik Suren	Grade 8	Town Ellington
	Aarav Chevva	Grade 8	Town Ellington

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface		
Proj. No.	4011		
Student(s)	Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clottey	Grade 8	Town Hartford

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	ACES at Chase	Waterbury	Kelly Horan
Project Title	What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?		
Proj. No.	5005		
Student(s)	Jacob Godfrey	Grade 7	Town Waterbury

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Greens Farms Academy	Westport	Mathieu Freeman
Project Title	Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars		
Proj. No.	5014		
Student(s)	Dylan Karpf	Grade 7	Town Westport

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Saint James School	Manchester	Ellen Oei
Project Title	Crusty n' Rusty		
Proj. No.	5017		
Student(s)	Brendan Abbamonte	Grade 7	Town Vernon

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Eastern Middle School	Greenwich	Andrew Bramante
Project Title	Shedding Light on the Prevalence of Harmful Butylated Hydroxytoluene Preservative in Artificially Formulated Dog Foods.		
Proj. No.	5502		
Student(s)	Mackensy Wilson	Grade 8	Town Old Greenwich

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Central Middle School	Greenwich	Andrew Bramante
Project Title	Simple Filtration of Fertilizer-ion Water Contaminants via Implementation of Phosphate and Nitrate Absorbency Pads		
Proj. No.	5504		
Student(s)	Caroline Stowe	Grade 8	Town Greenwich

Award	Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners		
School	Central Middle School	Greenwich	Andrew Bramante
Project Title	The Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification		
Proj. No.	5514		
Student(s)	Mikah Kaalund	Grade 8	Town Greenwich

U.S. Agency for International Development (USAID)

Award	Certificate and \$25 gift card given by CSEF		
School	Chiaravalle Academy	Enfield	Timothy Coleman
Project Title	How Does Different Types of Food Affect A Chicks' Growth and Learning Ability?		
Proj. No.	1026		
Student(s)	Zoha Shamsi	Grade 7	Town Suffield
	Leah Caswell	Grade 7	Town Enfield
	Marin Czerwicz	Grade 7	Town Agawam

Award	Certificate and \$25 gift card given by CSEF		
School	ACES at Chase	Waterbury	Kelly Horan
Project Title	What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?		
Proj. No.	5005		
Student(s)	Jacob Godfrey	Grade 7	Town Waterbury

Award	Certificate and \$25 gift card given by CSEF		
School	Dodd Middle School	Cheshire	Katie Kearney
Project Title	The Irrigator- a sustainable solution for gardening		
Proj. No.	5509		
Student(s)	Olivia Dixon	Grade 8	Town Cheshire

U.S. Air Force

Award	Certificate & USAF Merchandise Package		
School	Talcott Mountain Academy	Avon	John Pellino
Project Title	The Aura Project: Landing Rockets at a Model Scale		
Proj. No.	5009		
Student(s)	Kwabena Addai - Boateng	Grade 8	Town East Hartford

Award	Certificate & USAF Merchandise Package		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Inertial Navigation Control System: Use of Reaction Wheels as an in-flight Steering Mechanism for Rockets		
Proj. No.	6015		
Student(s)	Thomas Armstrong	Grade 11	Town Greenwich

Award	Certificate & USAF Merchandise Package		
School	Norwich Technical High School	Norwich	Suzanne Edwards
Project Title	A Mathematical Analysis of the Variables Impacting the Performance of Wind Turbines as the Energy Converts from Kinetic to Mechanical to Electrical		
Proj. No.	6066		
Student(s)	Leah Kozerefski	Grade 9	Town Gilman

Award	Certificate & USAF Merchandise Package		
School	Blackham School	Bridgeport	Nancy Hovanec
Project Title	Hovercraft The New Transportation		
Proj. No.	4002		
Student(s)	Sebastian Suarez	Grade 7	Town Bridgeport
	Jayden Perez	Grade 7	Town Bridgeport

U.S. Metric Association

Award	Certificate & \$25 gift card given by CSEF		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Rapid Detection of Pulmonary Fibrosis via Eu(TTA) ₃ Phen, and Rhodamine-6G-Cinnamaldehyde, Dual-Sensor Luminescent Diagnostic		
Proj. No.	3122		
Student(s)	Lauren Huang	Grade 11	Town Old Greenwich

Award	Certificate & \$25 gift card given by CSEF		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Fabrication of a Europium-based Magnetic Nanosensor for the Detection of D-Serine in Early-onset Alzheimers		
Proj. No.	3071		
Student(s)	Ava Jackson	Grade 11	Town Old Greenwich

Award	Certificate & \$25 gift card given by CSEF		
School	Engineering and Science University Magnet	New Haven	Alyssa Anderson
Project Title	Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for Adsorptive Removal of Microplastics and Oil from Contaminated Water		
Proj. No.	6052		
Student(s)	Snigtha Mohanraj	Grade 11	Town Ansonia

University of Connecticut - Early College Experience

Award	UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Reinforcing the Cybersecurity of Medical Data via Software Countermeasures against Malware in Heart Monitoring Technology		
Proj. No.	6009		
Student(s)	Sujay Chava	Grade 11	Town Ellington

Award	UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	Non-Thermal Induction of Heat Shock Protein 90 to Mitigate Early Oncogenesis With Preserved HSR		
Proj. No.	3015		
Student(s)	Chloe Atkins	Grade 12	Town Stratford

Award	UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate		
School	South Windsor High School	South Windsor	Kevin Snyder
Project Title	Scientific understanding of solar physics with image based neural networks		
Proj. No.	6013		
Student(s)	Pragyan Yadav	Grade 12	Town South Windsor

University of Connecticut Academic Excellence Scholarship

Award	Academic Excellence Scholarship - (amount undefined) to a junior)		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions		
Proj. No.	3054		
Student(s)	Namyanzi Edwards	Grade 11	Town New Britain

University of Hartford Scholarships

Award	University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7,500/year)		
School	Amity Regional High School	Woodbridge	Catherine Piscitelli
Project Title	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		
Proj. No.	6503		
Student(s)	Sophia Messina	Grade 11	Town Woodbridge
	Nikhil Petrov	Grade 11	Town Woodbridge

Award	University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)		
School	Hopkins School	New Haven	Phillip Stewart
Project Title	Profit from stock pricing		
Proj. No.	6055		
Student(s)	Christina Cao	Grade 11	Town Trumbull

Award	University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)		
School	Christian Heritage School	Trumbull	Daniel Cote
Project Title	Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses		
Proj. No.	6102		
Student(s)	Daylin Jerome	Grade 11	Town Bridgeport

University of New Haven Scholarship Awards

Award	University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Sonic Repulsion of Purple Sea Urchins to Reduce Degradation of Nascent Nereocystis luetkeana Forests		
Proj. No.	3025		
Student(s)	Owen Benison	Grade 11	Town riverside

Award	University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project		
School	Newtown High School	Newtown	Timothy DeJulio
Project Title	Using Sunscreen as a way to distribute Beneficial Microorganisms for Corals (BMCs)		
Proj. No.	3083		
Student(s)	Lydia Cox	Grade 11	Town newtown

Award	University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project		
School	Farmington High School	Farmington	Alexandra Raymunt
Project Title	Origami-Inspired Paper-Based Multiplex Device for Water Contamination Monitoring		
Proj. No.	6068		
Student(s)	Jiayi Liu	Grade 11	Town Farmington

Award	University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project		
School	Brookfield High School	Brookfield	Jonathan Neuhausel
Project Title	GeoCool: A Novel Approach to Sustainable Residential Cooling Using Underground Soil Temperatures		
Proj. No.	6077		
Student(s)	Arjun Parimi	Grade 11	Town Brookfield

Urban School Challenge 1st Place Middle School Awards

Award	USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$900		
School	ACES at Chase	Waterbury	Kelly Horan
Project Title	What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?		
Proj. No.	5005		
Student(s)	Jacob Godfrey	Grade 7	Town Waterbury

Award	USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface		
Proj. No.	4011		
Student(s)	Palaniappan Manikandan	Grade 8	Town Ellington
	Duke Clotey	Grade 8	Town Hartford

Vanderbilt Chemicals, LLC

Award	\$150 Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	The Efficiency of Toroidal Propellers on Plane Engines and Boat Propellers		
Proj. No.	6522		
Student(s)	Thomas Carney	Grade 10	Town New Canaan
	Pierce Crosby	Grade 10	Town Greenwich

Wisner Chairman's Award

Award	\$500 cash & Plaque HS		
School	Christian Heritage School	Trumbull	Daniel Cote
Project Title	Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses		
Proj. No.	6102		
Student(s)	Daylin Jerome	Grade 11	Town Bridgeport

Award	\$500 cash & Plaque MS		
School	Eastern Middle School	Greenwich	Andrew Bramante
Project Title	Shedding Light on the Prevalence of Harmful Butylated Hydroxytoluene Preservative in Artificially Formulated Dog Foods.		
Proj. No.	5502		
Student(s)	Mackensy Wilson	Grade 8	Town Old Greenwich

Wisner Memorial Award

Award	\$ 1000 cash + Silver Bowl (\$2000 cash if a team) High School		
School	Amity Regional High School	Woodbridge	Catherine Piscitelli
Project Title	Creation of an Environment-Adaptive Reaction Algorithm Implemented on a Novel Smart Fluidic Servo Actuator to Provide a Sense of Pseudo-Exproprioception and Exteroception		
Proj. No.	6010		
Student(s)	Aditi Bhattamishra	Grade 12	Town Orange

Yale Science & Engineering Association, Inc.

Award	1 Certificate, Medallion and 1- \$25 gift card given by CSEF		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Inertial Navigation Control System: Use of Reaction Wheels as an in-flight Steering Mechanism for Rockets		
Proj. No.	6015		
Student(s)	Thomas Armstrong	Grade 11	Town Greenwich

Zepke Awards

Award	\$100 - For the Best Use of Electronic Circuitry- Middle School		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Integrating Pelton Turbines Into Industrial Pipes to Harvest Energy		
Proj. No.	4004		
Student(s)	Aaditya Sadhvani	Grade 8	Town Ellington
	Roshan Kumar	Grade 8	Town Ellington

Award	\$125 - For the Best Use of Electronic Circuitry- Senior High		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Reinforcing the Cybersecurity of Medical Data via Software Countermeasures against Malware in Heart Monitoring Technology		
Proj. No.	6009		
Student(s)	Sujay Chava	Grade 11	Town Ellington

Award	\$125 - For the Best Use of Electronic Circuitry- Senior High		
School	Westminster School	Simsbury	Suzanne Bailey
Project Title	Dual-Degree-of-Freedom Pneumatic Shoulder Rehabilitation Device Based on Flexible Materials		
Proj. No.	6043		
Student(s)	Meiyin Ren	Grade 11	Town Simsbury

Award	\$125 - For the Best Use of Electronic Circuitry- Senior High		
School	The Hotchkiss School	Salisbury	Sid Yenugu
Project Title	A Resilient & Cost-Effective Prosthetic Device Tailored for the Accelerated Growth of Children		
Proj. No.	6103		
Student(s)	Sia Reddy	Grade 10	Town Avon