



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 4 - 16, 2024

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### Final Judging Results

#### Award Legend

Plaque Winners = 1, 2, ...  
 Medalists = m  
 Winners = w

#### Thermo Fisher Scientific Junior Innovators Challenge

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

**Wilton** Middlebrook School William Desroches

1017	LT	BEAT THE PEAT - RICE HUSK, THE SUSTAINABLE AND ECO-FRIENDLY ALTERNATIVE TO PEAT MOSS
<b>Award</b> 1	<b>Student(s)</b> Kabir Rokkam	<b>Grade 7</b> <b>Town</b> WILTON
	Shushruth Balaji	<b>Grade 7</b> <b>Town</b> Wilton

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

**Bristol** St. Matthew School Danielle Persichetti

2002	L7	Which Moisturizer is Best?
<b>Award</b> 2	<b>Student(s)</b> Lauren Gillis	<b>Grade 7</b> <b>Town</b> Bristol

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion
- \* Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Waterbury** ACES at Chase Lisa Debany

2005	L7	Reducing Lycorma delicatula, Lantern Fly, Infestation: Using Essential Oils to Address Crop Damage and Food Shortages.
<b>Award</b> 1	<b>Student(s)</b> Besjana Veliu	<b>Grade 7</b> <b>Town</b> Waterbury

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

**Greenwich** Central Middle School Andrew Bramante

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

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



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

4001 PT Combining Optical Wireless Communications (OWC) and Neuromorphic Architecture for Large-Scale Computations

Award 1

**Student(s)** Rithvik Suren  
 Aarav Chevva

**Grade 8** **Town** Ellington  
**Grade 8** **Town** Ellington

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

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

4011 PT Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface

Award 1

**Student(s)** Palaniappan Manikandan  
 Duke Clotey

**Grade 8** **Town** Ellington  
**Grade 8** **Town** Hartford

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy
- \* Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- \* Jon Chapis Memorial Award --- Jon Chapis Spirit of Innovation Award - MS \$100
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

**Waterbury** ACES at Chase Kelly Horan

5005 P7 What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics?

Award 5

**Student(s)** Jacob Godfrey

**Grade 7** **Town** Waterbury

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place Middle School - Trophy, Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- \* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- \* Aquarion Water Company --- 1st. \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$900



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**Westport** Greens Farms Academy Mathieu Freeman

5014 P7 Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars

**Award** 1 **Student(s)** Dylan Karpf **Grade** 7 **Town** Westport

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$300 & trophy
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation
- \* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications
- \* Demos R Us Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

**Manchester** Saint James School Ellen Oei

5017 P7 Crusty n' Rusty

**Award** 2 **Student(s)** Brendan Abbamonte **Grade** 7 **Town** Vernon

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

**Greenwich** Eastern Middle School Andrew Bramante

5502 P8 Shedding Light on the Prevalence of Harmful Butylated Hydroxytoluene Preservative in Artificially Formulated Dog Foods.

**Award** 1 **Student(s)** Mackensy Wilson **Grade** 8 **Town** Old Greenwich

- \* Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 & trophy
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Wisner Chairman's Award --- \$500 cash & Plaque MS

**Greenwich** Central Middle School Andrew Bramante

5504 P8 Simple Filtration of Fertilizer-ion Water Contaminants via Implementation of Phosphate and Nitrate Absorbency Pads

**Award** 2 **Student(s)** Caroline Stowe **Grade** 8 **Town** Greenwich

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



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**Greenwich** Central Middle School | Andrew Bramante

5514 P8 The Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification

**Award** 1 **Student(s)** Mikah Kaalund **Grade** 8 **Town** Greenwich

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