Connecticut Science & Engineering Fair
Quinnipiac University
March 3 - 15, 2025

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Final Judging Results

Award Legend

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

Computer Science Awards

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

Middle School

Wilton Middlebrook School Debbie Mallozzi

5507 | P8 | Bus Notification System with Raspberry Pi

Award 1 **Student(s) Vidit Prabhu** **Grade** 8 **Town** Wilton

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 8th Grade Ind. - $150 & trophy
* Infosys Foundation Computer Science Awards --- 1st Place Middle School - $200, Trophy
* Pepsico Engineering Awards --- 1st Place- Engineering Middle School- $200 & trophy
* Quinnipiac University Scholarships --- $30,000, 4 year scholarship ($7500 per year) to Quinnipiac U. - MS Student in Computing
* 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

Danbury Westside Middle School Academy Nancy Barlow

5528 | P8 | The Benefit of A Coded Device To Water Plants Automatically

Award 2 **Student(s) Mackenzie Cooper** **Grade** 8 **Town** Danbury

* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- $150 / trophy
* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place Middle School - $200 and Trophy, Medallion
* Infosys Foundation Computer Science Awards --- 2nd Place Middle School - $150, Trophy
* Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- $250 Cash Award, Invite to attend CASE's Annual Meeting
* 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

Greenwich Eastern Middle School Andrew Bramante

2521 | L8 | Unraveling Weather-Pollen Interactions: Machine Learning for Allergy Forecasting

Award 3 **Student(s) Siddharth Nimmagadda** **Grade** 8 **Town** Greenwich

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 8th grade- $100 & trophy
* Infosys Foundation Computer Science Awards --- 3rd Place Middle School- $100, Trophy

Avon Talcott Mountain Academy Hannah Marye

5508 | P8 | The impact of 3D-printed low-cost quadrupedal robots using swarm mechanics on highway litter cleaning services

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

* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

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High School

Greenwich Greenwich High School Andrew Bramante

3152 | LS | Real-Time Diagnosis and Alert of Computer Vision Syndrome, to Promote Healthy Screen-Time Habits

Award 1 — **Student(s)** **Arnav Bhatia** **Grade** 10 **Town** Old Greenwich

* Infosys Foundation Computer Science Awards --- 1st Place High School - $300, Plaque

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Windsor The Loomis Chaffee School Koby Osei

6098 | PS | A Multi-Modal Modular Robotic System: Self-Assembly and Navigation in Complex Terrains

Award 2 — **Student(s)** **Michael Ma** **Grade** 9 **Town** Medina

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences Senior High Individual - Plaque
* Infosys Foundation Computer Science Awards --- 2nd Place High School - $200, Plaque
* IEEE William R. Wessman Awards --- $100 Honorable Mention

Greenwich Greenwich High School Andrew Bramante

3146 | LS | Leveraging of Neural Network Design to Create High-Accuracy, Low-Latency Detection of Real-time

Award 3 — **Student(s)** **Ryan Wadhwa** **Grade** 11 **Town** Riverside

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- 3rd Place High School- $100, Plaque

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Avon Avon High School Galuska Andrea

3132 | LS | Pathonix: Enhancing Ovarian Cancer Detection with an Explainable and Efficient Ensemble Learning Framework

Award m — **Student(s)** **Vishnu Mukku** **Grade** 10 **Town** Avon

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6043 | PS | Using Swarm Artificial Intelligence to Generate Artificial Human Genomes

Award m — **Student(s)** **Alexander Haniph** **Grade** 12 **Town** Trumbull

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

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Cheshire Cheshire Academy Breanna Craft

6013 | PS | A Tracking System.

Award m — **Student(s)** **Deanna Dixon** **Grade** 11 **Town** Cheshire

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* Society of Women Engineers - Hartford Section --- Scientific Calculator

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Computer Science Awards

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

Cheshire Cheshire High School Julie Barker

6064 | PS | Chemical Clues: Predicting Cytochrome P-450 Inhibitors

Award m **Student(s)** **Adwitha Gadhachanda** **Grade** 11 **Town** Cheshire

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

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Cheshire Cheshire High School Julie Barker

6058 | PS | The Design and Development of a Smart and Effective Multi-Device Airline Seatbelt Alert System for Preventing Turbulence-Related Injuries Using iOT Technology

Award m **Student(s)** **Suchita Srinivasan** **Grade** 11 **Town** Cheshire

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* 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 Wooster School Parvin Taraz

6077 | PS | CTRQNets & LQNets: Continuous Time Recurrent and Liquid Quantum Neural Networks

Award m **Student(s)** **Alejandro Mayorga** **Grade** 10 **Town** Danbury

* Connecticut Science Fair Association Mathematics Awards --- 1st Place High School- $300 and Plaque
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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East Lyme East Lyme High School Frederic Clark

3059 | LS | SleepWatcher

Award m **Student(s)** **Sashrika Das** **Grade** 9 **Town** East Lyme

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

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Greenwich Greenwich High School Andrew Bramante

6051 | PS | Development of a Novel Deep Reinforcement Learning Algorithm for Decentralized Real-Time Control of Autonomous Drones with Hardware-Independent Compatibility

Award m **Student(s)** **Henry Jin** **Grade** 11 **Town** Greenwich

* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

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Greenwich Greenwich High School Andrew Bramante

3011 | LS | A Novel Multi-Modal ML Approach for Early Detection of Alzheimer's Disease Using Clinical, Genetic, and MRI Modalities

Award m **Student(s)** **Keen-Yin Woo** **Grade** 11 **Town** Riverside

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences Senior High- $100 & Plaque
* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - $200, Plaque
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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[Proj#] **[FCat]** **[Project Title]**

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

3003 | LS | Implementation and Validation of a Novel Machine-Learning-Based Mobile Gyrocardiography System for Arrhythmia Detection

Award m **Student(s)** **Ethan Joseph** **Grade** 10 **Town** West Haven

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place High School - $300 and Plaque, Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- $500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
* 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

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Redding Joel Barlow High School Paul Testa

3122 | LS | AI Prediction: Randomized Clinical Trial Enrollment

Award m **Student(s)** **Arianna Pereira** **Grade** 11 **Town** easton

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

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Redding Joel Barlow High School Paul Testa

6059 | PS | Evaluating Market Efficiency Through Deep Learning: A Performative Analysis of LSTM Neural Networks, Actor-Critic Reinforcement Learning Models, and Technical Indicators

Award m **Student(s)** **Brian Weiss** **Grade** 11 **Town** Redding

* Connecticut Science Fair Association Mathematics Awards --- 2nd Place High School- $200 and Plaque
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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South Windsor South Windsor High School Danel Eitel

6047 | PS | OatNET: Novel Neural Network architecture & mathematical model for reducing Dense Layer computational complexity via ternary weight decomposition & rank-1 magnitude approximation.

Award m **Student(s)** **Karthik Srikumar** **Grade** 10 **Town** South Windsor

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Individual - $200 & Plaque
* Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Quinnipiac University Scholarships --- $30,000, 4 year scholarship ($7500 per year) to Quinnipiac U. - HS Student in Computing
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics

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Computer Science Awards

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[Proj#] [FCat] [Project Title]

Stamford King School Victoria Schulman

6057 | PS | LungSCOPE: A Multimodal Machine Learning-Based Framework for Overall Survival Prediction in Non-Small Cell Lung Cancer

Award m

Student(s) Parker Hayashi **Grade** 12 **Town** Riverside

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

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Stamford King School Victoria Schulman

6001 | PS | Making a Real-Time Water Quality Monitor

Award m

Student(s) Sowa Laryea-Adjei **Grade** 11 **Town** Stamford

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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Stamford Laurel Springs School Vera Ulanovskaya

6046 | PS | Research on Autoimmune Disease Spectrometer (RAD-Spec): A Machine Learning-Based Application for Improving Accessibility to Autoimmune Research

Award m

Student(s) Victoria Makarov **Grade** 11 **Town** Stamford

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - $100

Windsor The Loomis Chaffee School Larry Brackney

6520 | PST | Alternative Drivetrain System for Better Efficiency in FIRST Tech Challenge Robots

Award m

Student(s) Emma Chu **Grade** 11 **Town** Ludlow

Yejoo Kwon **Grade** 11 **Town** Saratoga

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

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Windsor The Loomis Chaffee School Koby Osei-Mensah

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

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

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - $200 and Plaque Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nautical Research - $200 Cash for top project that has innovative nautical applications

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Woodbridge Amity Regional High School Jacob Storeygard

6048 | PS | Using physics-based machine learning models to adjust flow rates of Herschel-Bulkley fluids in Direct Ink Writing 3D printing processes

Award m **Student(s)** **Jacob Storeygard** **Grade** 11 **Town** Woodbridge

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

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