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

ISEF Winners

CSEF Physical Sciences

Cooper Taylor　　　　　Greenwich Country Day School　　　　Greenwich

Optimizing Vertical Take-Off and Landing (VTOL) Aircraft Efficiency Through Propeller Design: Making Air Flight More Accessible, Affordable, and Sustainable

CSEF Physical Sciences

Karthik Srikumar　　　　South Windsor High School　　　　South Windsor

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

CSEF Life Sciences

Srinidhi Karthik　　　　South Windsor High School　　　　South Windsor

Targeting Telomerase Activity in Malignant Cancer Cells: RNA Interference and Enzymatic Inhibition to Induce Growth Arrest, Senescence, and Block Metastatic Dissemination

CSEF Life Sciences

Keen-Yin Woo　　　　Greenwich High School　　　　Greenwich

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

Alexion Biotechnology

William Boberski　　　　Staples High School　　　　Westport

Effect of Diet on Lifespan, Tumor Burden and Wnt Signaling Activation in a Drosophila Apc1/Apc2-RasV12 Model of Colorectal Cancer

Urban School Challenge

Ethan Joseph　　　　Engineering and Science University Magnet　　　New Haven

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

Engineering

Lula Wang　　　　Greenwich High School　　　　Greenwich

Lipid-Based Codelivery of Doxorubicin and siRNA PD-L1, as a Multi-function Chemo-immunotherapy, Selective to PDAC via its MUC1 Overexpression