



**Conn. Science & Engineering Fair**  
Quinnipiac University  
March 9 - 14, 2020

**ISEF Winners**

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**CSEF Physical Sciences Team**

Trevor Brunette                              Academy of Aerospace and Engineering                              Windsor  
Christopher Reed  
*Cyber Attack Identification in the Electric Power Grid by Anomaly Detection*

**CSEF Physical Sciences**

Abigail Slanski                              Amity Regional High School                              Woodbridge  
*Using an Automated Coating System to Optimize Nitric Oxide Release Patterns of Antibacterial Catheters*

**CSEF Life Sciences**

Patricia Joseph                              Engineering and Science University Magnet                              West Haven  
*Comparative Analysis of the Mitigation and Emissions Rates of Volatile-Organic Compounds in Various Ornamental Plants Using a Monitored Environment*

**CSEF Life Sciences**

Ava Ewing                              Greens Farms Academy                              Westport  
*Impacts of Blue Light on the Eye Structure and Brain Activity of Drosophila Melanogaster*

**Alexion Biotechnology**

John Oei                              East Catholic High School                              Manchester  
*Biomimicry of Woodpecker Anatomy to Improve Helmet Design in Prevention of Chronic Traumatic Encephalopathy*

**Urban School Challenge**

Johnathan Bell                              Academy of Aerospace and Engineering                              Windsor  
Devesh Kakar  
*Effective Augmentation of Urban Wind Energy Harvesters to Increase Electric Power Generation and Environmental Protections*

**Engineering**

Ana-Florina Galic                              Greenwich High School                              Greenwich  
*Early Diagnosis of Pancreatic Cancer via Urinary Biomarkers with a New, Rapid, and Simple Lateral Flow Assay*