## *ISEF Winners*

### CSEF Physical Sciences

Meiyin Ren                    Westminster School                    Simsbury

*Dual-Degree-of-Freedom Pneumatic Shoulder Rehabilitation Device Based on Flexible Materials*

### CSEF Physical Sciences

Antonia Kolb                    King School                    Stamford

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

### CSEF Life Sciences

Ashley Malkin                    Greenwich High School                    Greenwich

*Development and In vitro Verification of a Polymersome for Blood-Brain Barrier Transport Through a Novel Machine Learning Model*

### CSEF Life Sciences

Ava Jackson                    Greenwich High School                    Greenwich

*Fabrication of a Europium-based Magnetic Nanosensor for the Detection of D-Serine in Early-onset Alzheimers*

### Alexion Biotechnology

Lula Wang                    Greenwich High School                    Greenwich

*Oral Delivery of Anticoagulant Dabigatran via a Mg-Micromotor Encapsulant Within a Gastric-Resistant Tablet for Ischemic Stroke Treatment*

### Urban School Challenge

Saachi Goyal                    Academy of Information Technology and                    Stamford

*A Novel Machine Learning Model for Estrous Cycle Classification in Mice*

### Engineering

Sunwoo An                    The Loomis Chaffee School                    Windsor

*A Deep Semi-Supervised Domain Generalization Approach for Epileptic Seizure Prediction using Electro Encephalo Graphy (EEG)*