



# LISEF

## Regeneron ISEF 2026 Special Award Winners

	Awards	Name	School	Title
Consortium for Mathematics and Its Applications	Monetary	<b>Kumar, Nikita</b>	Herricks High School	<i>BRAINMAP-NET: A Multilayer Convolutional Neural Network-Based Tool for Clustering Glioma Mechanical Subregions Using Topological Modeling of MRE-Derived Stiffness Gradients and Curvature</i>
Chemistry and the Law	Monetary	<b>Tae, Ryan</b>	Jericho High School	<i>Unlocking a Tenfold Increase in Battery Performance: Poly(citric Acid) as a Novel Binder for Silicon Anode Batteries</i>
Consortium for Mathematics and Its Applications	Monetary	<b>Balani, Vedant</b>	Jericho High School	<i>Hurricane Forecasting Using Comprehensive Multivariable Machine Learning Modeling with Atmospheric Temperatures, Polar Motion, and Sunspot Numbers</i>
Office of Naval Research	Monetary	<b>Su, Emma</b>	Herricks High School	<i>Developing a Novel Adaptive Tuning Module for Real-Time Frequency Correction in Radiofrequency Coils During Concurrent TMS-fMRI</i>
Patent and Trademark Office	Monetary	<b>Huang, Benson</b>	Half Hollow Hills West	<i>BLADE: Bioimpedance-Enabled Laparoscopic Articulated Dual-purpose EndoWrist for Force Sensing and Anomaly Detection in a Glove-Based Robotic Surgery Interface</i>
Aramco	Monetary	<b>Huth, Rachel</b>	Huntington High School	<i>Design and Evaluation of an Energy-Efficient CO<sub>2</sub> Capture System Utilizing Sodium Hydroxide for Ammonium Bicarbonate Fertilizer Synthesis</i>
American Mathematical Society, Mu Alpha Theta	Monetary	<b>Chand, Arav</b>	Half Hollow Hills West	<i>Universal Matrices For Counting Fibo-Multinomial and C-Multinomial Coefficients With a Cryptographic Application</i>
IEEE	Monetary	<b>Sidhu, Partap</b>	Bethpage High School	<i>NeuroGait: A Low-Cost, Mind-Controlled Pneumatic Exoskeleton With CNN-Based Control for Individuals With Lower-Limb Mobility Impairments Using Brain Computer Interface</i>