

Category	Student Name(s)	Project Title	School
Junior Engineering	Caroline Erdem	Flying High	Seabrook Intermediate School
Junior Life Sciences	Adel Sisy	Tandem Repeat Analysis and Visualization Atlas (TRAVA)	Manvel Junior High - MS
Junior Physical Sciences	Caden Pohlkamp	Is More Green Better? Does Littoral Vegetation Enhance Habitat Suitability of Local Retention Ponds?	Brookside Intermediate School
Senior Engineering	Suman Muppavarapu, Asa Gangjee	Aerocket	ST. JOHN'S SCHOOL
Senior Engineering	Sriram Susarla	Decoding PDAC: A scRNA-seq Omics Analysis to Unveil and Inhibit Key Protein Using a Novel In-Silico, Structure-Based Drug Design Pipeline	Dulles High School
Senior Engineering	Carter Collison	Translation Between the Opacity of Photochromic Dye and UV Index	AST: Academy of Science and Technology
Senior Engineering	Sai Spoorthi Maram, Jiya Joshi	Soft Robotics in Gastrointestinal Endoscopy: Engineering a Novel Hydraulic Colonoscope to Minimize Risks and Enhance Usability	Travis High School
Senior Life Sciences	Iris Shen	Year II: Assessing Marine Bivalves as Novel Invertebrate Models for Targeting BCL-2 Family Proteins in Blood Cancer: The in vivo Effects of Ursolic Acid and Gossypol Acetic Acid on Tumor Cells in Mercenaria mercenaria	AST: Academy of Science and Technology
Senior Life Sciences	Melina Kumar	One Blood Drop to New Hope: A Novel Test Method to Improve Fertility Assessment	Clear Lake High School
Senior Life Sciences	Nia Shetty	Optimizing Liver Transplant Success: A Data-Driven Approach Incorporating MELD for Accurate Survival Prediction and Equitable Organ Allocation	ST. JOHN'S SCHOOL
Senior Life Sciences	Aarushi Pandey	Examining the Synergistic Effects of Hydrotropism, Magnetotropism, and Simulated Microgravity on Allium fistulosum Morphology Using a Novel 3D Clinostat	AST: Academy of Science and Technology
Senior Physical Sciences	Prachi Natoo	Improving Alkaline Electrolyzers: The Role of Forced Convection in Hydrogen Generation	AST: Academy of Science and Technology
Senior Physical Sciences	Caleb Foo	Utilizing Wavelet Transform and Fourier Transform to Detect Cardiac Arrest Through Electrocardiogram Analysis	AST: Academy of Science and Technology
Senior Physical Sciences	Jesse Miller	Investigating the Effect of Qubit Type on Quantum Computing Viability	AST: Academy of Science and Technology
Senior Physical Sciences	May Espinola	Unobstructing voice for the deaf: A real-time centered sign language recognition system	Tompkins - HS