

2023 Place Award Winners

Award	Division	Student	Category	Project Title	School
1st Place	Junior	Maxwell Shore	Aerospace Engineering	Flight	Mccullough Junior High School
1st Place	Junior	Allie Borgmeyer	Animal Sciences	What a Bee Sees	Mccullough Junior High School
1st Place	Junior	Rahmatoulie Lopyy	Behavioral and Social Sciences	The Illusory Truth Effect: Influencing Human Health and Behaviors	Baylor College Of Medicine Biotech Academy At Rusk Ms
1st Place	Junior	Jiya Joshi	Biochemistry and Microbiology	Using In Silico Methodology to Combat Antibiotic-Resistant Bacteria	Quail Valley Middle School
1st Place	Junior	SaiSpoorthi Maram	Biochemistry and Microbiology	Using In Silico Methodology to Combat Antibiotic-Resistant Bacteria	Quail Valley Middle School
1st Place	Junior	Anvesha Subramanian	Biochemistry and Microbiology	Using In Silico Methodology to Combat Antibiotic-Resistant Bacteria	Quail Valley Middle School
1st Place	Junior	Neev Shaw	Biomedical Engineering	A Comprehensive, Cost-effective, Customizable Device to help People With ALS (PALS) Communicate	Quest Academy - Shaw
1st Place	Junior	Neil Shaw	Biomedical Engineering	A Comprehensive, Cost-effective, Customizable Device to help People With ALS (PALS) Communicate	Quest Academy - Shaw
1st Place	Junior	Maan Patel	Chemical Engineering Materials Science	Nature's Super Shapes: How Voronoi Tessellations Affect Structural Strength	Mccullough Junior High School
1st Place	Junior	Alexa Lopez	Chemistry	The Effect of different heat protectants on hair damage	Brookside Intermediate School
1st Place	Junior	Avery McGee	Earth and Environmental Sciences	Wave Goodbye	Seabrook Intermediate
1st Place	Junior	Vikram Gupta	Embedded Systems	A Cost-Effective Navigational Aid to Assist Through Pathway Obstructions	Friendswood Junior High School
1st Place	Junior	William Lee	Energy and Transportation	How Does the Interior Color of a Car Affect the Temperature?	Mccullough Junior High School
1st Place	Junior	Kittredge Taylor	Engineering Mechanics	Does Ground Effect Affect Anything? Part 2	Spring Branch Academic Institute Ms
1st Place	Junior	Sable Clift	Environmental Engineering	banana pads ?!?	Austin Middle School
1st Place	Junior	Sana Kale	Mathematics	Analyzing the Effects of Gender and APOE Genes on AD	Creekside Park Junior High School
1st Place	Junior	Nia Shetty	Medicine and Health	Gold Nanoshells and Focal Laser Therapy: A Novel Approach to Solid Tumor Treatment	The Honor Roll School
1st Place	Junior	Aniket Chakraborty	Physics and Astronomy	Analyzing Materials Using Infrared and Optical Spectroscopy	Knox Junior High School
1st Place	Junior	Karishma Parghi	Plant Sciences	The Impact of Black Looseleaf, Caffeinated Tea Grounds as a Fertilizer Additive on the Height of Phaseolus aureus	Knox Junior High School

1st Place	Junior	Adil Mansury	Robotics and Intelligent Machines	Student Count in a Bus	Knox Junior High School
1st Place	Junior	Raeef Dean	Systems Software	Artificial Intelligence for School Safety and Efficiency	League City Intermediate School
1st Place	Senior	Nicholas Ng	Aerospace Engineering	Improving Airplane Wings through the Study of Aerial-Capable Animals	Clear Brook High School
1st Place	Senior	Catherine Nguyen	Aerospace Engineering	Improving Airplane Wings through the Study of Aerial-Capable Animals	Clear Brook High School
1st Place	Senior	Melina Kumar	Animal Sciences	Is Your Cat or Dog Really Spayed: A Novel Test to Diagnose Ovarian Remnant Syndrome	Clear Lake High School
1st Place	Senior	Pranav Somani	Behavioral and Social Sciences	Anxi: A Novel Natural Language Processing System for the Detection and Prevention of Anxiety Disorders	Academy Of Science And Technology
1st Place	Senior	Andrew Haynes	Biochemistry and Microbiology	Evaluating the Antibacterial Effects of Combining Panax ginseng Tea and Sambucus nigra Syrup Against Escherichia coli	Academy Of Science And Technology
1st Place	Senior	Adeela Law	Biochemistry and Microbiology	Evaluating the Antibacterial Effects of Combining Panax ginseng Tea and Sambucus nigra Syrup Against Escherichia coli	Academy Of Science And Technology
1st Place	Senior	Rohan Mehta	Biomedical Engineering	DiaVest: A Non-invasive Glucose Monitoring System for Diabetes Management	Academy Of Science And Technology
1st Place	Senior	Roshan Mehta	Biomedical Engineering	DiaVest: A Non-invasive Glucose Monitoring System for Diabetes Management	Academy Of Science And Technology
1st Place	Senior	Shreyas Vatts	Biomedical Engineering	DiaVest: A Non-invasive Glucose Monitoring System for Diabetes Management	Academy Of Science And Technology
1st Place	Senior	Sohi Patel	Chemical Engineering Materials Science	Programmable Matter II: Optimizing Logical Topology and Automating Manufacture of a Microscale, Self-Reconfigurable Swarm Robotic System	Academy Of Science And Technology
1st Place	Senior	Shivani Mundra	Chemistry	Engineering a Cost-Effective and Biodegradable Cellulosic Battery Composition	Academy Of Science And Technology
1st Place	Senior	Madelynn Puza	Chemistry	Engineering a Cost-Effective and Biodegradable Cellulosic Battery Composition	Academy Of Science And Technology

1st Place	Senior	Rishab Ghosh	Earth and Environmental Sciences	An Analysis Into the Removal of Microplastics from Water Using Oil-based Ferrofluids	Academy Of Science And Technology
1st Place	Senior	Addison Binford	Embedded Systems	The Problem You Can't Smell!: Atmospheric Methane Detection in Rural Areas	Academy For Science And Health Professions
1st Place	Senior	Harrison Conway	Energy and Transportation	Biomechanical Energy Harvesting from Human Movement	Lutheran South Academy
1st Place	Senior	Henry Aceves	Engineering Mechanics	ArmAssist: A Lightweight, Concealable Active Arm Support that Empowers Victims of Muscular Atrophy	Academy Of Science And Technology
1st Place	Senior	Donovan Burke	Engineering Mechanics	ArmAssist: A Lightweight, Concealable Active Arm Support that Empowers Victims of Muscular Atrophy	Academy Of Science And Technology
1st Place	Senior	Tavishi Sinha	Environmental Engineering	MERA: In Situ, Low Cost, and Rapid Detection of Soil-Borne Plant Pathogens Through Computer Vision-Based Object Detection	Dulles Hs
1st Place	Senior	Rich Wang	Mathematics	Ending States of a Special Variant of the Chip-Firing Algorithm	Clements High School
1st Place	Senior	Jaagat Prashar	Medicine and Health	Monco: A Novel Deep Learning Pipeline to Predict Drug Candidates for the Inhibition of EZH2 Cofactors in Pediatric Neuroblastoma	Jordan High School
1st Place	Senior	Jaanak Prashar	Medicine and Health	Monco: A Novel Deep Learning Pipeline to Predict Drug Candidates for the Inhibition of EZH2 Cofactors in Pediatric Neuroblastoma	Jordan High School
1st Place	Senior	Jesse Miller	Physics and Astronomy	Investigating the effect of Qubit entanglement on quantum decoherence	Academy Of Science And Technology
1st Place	Senior	Anshul Desai	Plant Sciences	Biofuel Production Optimization Through Modified Environmental Conditions in Nutritional Content and Plant Hormones for the Purpose of Increasing Starch Dryweight Content in Lemna Minor	Academy Of Science And Technology
1st Place	Senior	Felix Li	Plant Sciences	Biofuel Production Optimization Through Modified Environmental Conditions in Nutritional Content and Plant Hormones for the Purpose of Increasing Starch Dryweight Content in Lemna Minor	Academy Of Science And Technology
1st Place	Senior	Ayaan Dhuka	Robotics and Intelligent Machines	Autonomous, Over the Board Chess Solution for Players in Isolated Conditions	St. John's School H S
1st Place	Senior	Landon Doughty	Robotics and Intelligent Machines	Autonomous, Over the Board Chess Solution for Players in Isolated Conditions	St. John's School H S

1st Place	Senior	Caiman Moreno-Earle	Robotics and Intelligent Machines	Autonomous, Over the Board Chess Solution for Players in Isolated Conditions	St. John's School H S
1st Place	Senior	Rohan Dharia	Systems Software	AIM-AI: A Novel, Automated Approach to Selecting Appropriate Medical Imaging Orders Using Natural Language Processing and Machine Learning	Travis High School
1st Place	Senior	Videet Mehta	Systems Software	AIM-AI: A Novel, Automated Approach to Selecting Appropriate Medical Imaging Orders Using Natural Language Processing and Machine Learning	Travis High School
2nd Place	Junior	Owen Ripps	Aerospace Engineering	Moon Boot Thermal Insulation Testing	Seabrook Intermediate
2nd Place	Junior	Kolton Fann	Animal Sciences	What is The Best Plecostomus Food	League City Intermediate School
2nd Place	Junior	Elda SofiaGuevaraMaldonado	Behavioral and Social Sciences	Improving Productivity With Color	All Nations Community School
2nd Place	Junior	Riya Singhal	Biochemistry and Microbiology	Using Spherification for Safe and Controlled Delivery of Iron Drops	Oakcrest Intermediate School
2nd Place	Junior	Sanvi Bala	Biomedical Engineering	GastroGuard: Accurate and Efficient Detection of Gastrointestinal Abnormalities Via Machine Learning Analysis of Video Capsule Endoscopy Images	Mccullough Junior High School
2nd Place	Junior	Julian Herz	Chemical Engineering Materials Science	Increasing the Efficiency of Solar Panels	All Nations Community School
2nd Place	Junior	Ronit Chheda	Chemistry	Green Hydrogen: The Fuel of the Future	Fort Settlement Middle School
2nd Place	Junior	Luke Porterfield	Earth and Environmental Sciences	A comparison of the effects of invertebrates on soil properties	Westbrook Intermediate
2nd Place	Junior	Levi Leibman	Embedded Systems	Searching for life-bearing rocks using a novel Mars magnetometer	Emery Weiner Jewish School
2nd Place	Junior	Max Madof	Embedded Systems	Searching for life-bearing rocks using a novel Mars magnetometer	Emery Weiner Jewish School
2nd Place	Junior	Aiden Nasser	Energy and Transportation	Air Thrust Effect on Maglevs	Seabrook Intermediate
2nd Place	Junior	John DeCesari	Engineering Mechanics	Pumpjet Design	Mccullough Junior High School
2nd Place	Junior	James Li	Environmental Engineering	Flood Risk Simulation Using HEC-RAS Modeling	The Honor Roll School
2nd Place	Junior	Niketa Pati	Environmental Engineering	Flood Risk Simulation Using HEC-RAS Modeling	The Honor Roll School
2nd Place	Junior	Zoe Alcantar	Mathematics	Amazon on a Healthy Economy	Seabrook Intermediate
2nd Place	Junior	Nicholas Noring	Medicine and Health	How does direction, distance and frequency impact sound localization in hearing aid wearer's vs non hearing aid wearers?	Mccullough Junior High School
2nd Place	Junior	Alice MedinaAvila	Physics and Astronomy	The Strength of Magnetic Levitation	E. A. Olle Middle School

2nd Place	Junior	Clare McKenna	Plant Sciences	Can biological nitrogen fixation, via Rhizobium bacteria be an alternative to industrialized fertilizer in the growth of legume plants?	Mccullough Junior High School
2nd Place	Junior	Gage Harris	Robotics and Intelligent Machines	The Suckermans Pipe	Seabrook Intermediate
2nd Place	Junior	Vincent Mughal	Systems Software	Face Recognition: A Comparison of Emerging Technologies When Challenged With Face Accessories	Fort Settlement Middle School
2nd Place	Senior	Rebecca Garza	Aerospace Engineering	Minimizing Runway Excursions During Landings Through Oleo Strut Experimentation for Greater Shock Absorption	Academy Of Science And Technology
2nd Place	Senior	Himanshi Gupta	Aerospace Engineering	Minimizing Runway Excursions During Landings Through Oleo Strut Experimentation for Greater Shock Absorption	Academy Of Science And Technology
2nd Place	Senior	Rotem Ris	Animal Sciences	Year IV: Engineering a Sodium Alginate Sphere Geared for Optimal Absorption of Piperine and Curcumin in the Gastrointestinal Tract on a Porcine Model	Academy Of Science And Technology
2nd Place	Senior	Zaina Siddiqi	Animal Sciences	Year IV: Engineering a Sodium Alginate Sphere Geared for Optimal Absorption of Piperine and Curcumin in the Gastrointestinal Tract on a Porcine Model	Academy Of Science And Technology
2nd Place	Senior	Siddhanth Pachipala	Behavioral and Social Sciences	DSM Diagnosis is Dead: Novel, AI-Based Biopsychosocial Classification for Depressive, Anxiety, and Trauma- and Stressor-Related Disorders	Academy Of Science And Technology
2nd Place	Senior	Kevin Gong	Biochemistry and Microbiology	Developing Novel Inhibitors for the ATAD3A Oncoprotein Utilizing a Novel Approach in Inhibitor Design Targeting Scaffold and Critical Binding Interactions in Indirect Inhibition for Cancer Therapy	Academy Of Science And Technology
2nd Place	Senior	Patrick McKenna	Biochemistry and Microbiology	Developing Novel Inhibitors for the ATAD3A Oncoprotein Utilizing a Novel Approach in Inhibitor Design Targeting Scaffold and Critical Binding Interactions in Indirect Inhibition for Cancer Therapy	Academy Of Science And Technology
2nd Place	Senior	Anushka Aggarwal	Biomedical Engineering	Using AI to Detect Optical Biomarkers With Fundus Photography to Diagnose Retinal Diseases	Dulles Hs

2nd Place	Senior	Madison Burke	Biomedical Engineering	Using AI to Detect Optical Biomarkers With Fundus Photography to Diagnose Retinal Diseases	Dulles Hs
2nd Place	Senior	Teddy Garza	Chemical Engineering Materials Science	Innovation of Wearable Batting Protective Gear	Clear Brook High School
2nd Place	Senior	Raj Mhetar	Chemistry	Synthesis of a Sustainable Bio-Nanocomposite Coating to Reduce Post-Harvest Agriculture Losses	Academy Of Science And Technology
2nd Place	Senior	Prachi Natoo	Earth and Environmental Sciences	Acid Rain Effect on Raphidocelis subcapitata	Academy Of Science And Technology
2nd Place	Senior	Inu Baek	Embedded Systems	Developing a Wearable Device for the Dynamic Detection, Tracking, and Mitigation of Chronic Pain	Academy Of Science And Technology
2nd Place	Senior	Rohit Pillutla	Embedded Systems	Developing a Wearable Device for the Dynamic Detection, Tracking, and Mitigation of Chronic Pain	Academy Of Science And Technology
2nd Place	Senior	Ricardo Victorio	Energy and Transportation	Engineered Phototropism: Improving the Energy Efficiency of Residential-Use Solar Tracking Using Soft-Bodied Thermal Expansion	Academy Of Science And Technology
2nd Place	Senior	Jessica Bird	Engineering Mechanics	Cost-effective Sustainable Structural Support Targeted for Use in Economically Disadvantaged Areas based upon DaVinci Self-Supporting Bridge	Academy Of Science And Technology
2nd Place	Senior	Shivani Patel	Environmental Engineering	Utilization of CRISPR and ribonucleoproteins for the modification of the accD gene for the Conservation of Nitrogen in Chlorella Vulgaris	Clear Creek High School
2nd Place	Senior	Sandul Manage	Mathematics	An Artificial Neural Network Model for Detecting Breast Cancer	Academy Of Science And Technology
2nd Place	Senior	Justin Li	Medicine and Health	Bioelectrical analysis of human phantoms to quantify bone density and diagnose osteoporosis	Hightower High School
2nd Place	Senior	Sanskriti Manoharan	Medicine and Health	Bioelectrical analysis of human phantoms to quantify bone density and diagnose osteoporosis	Hightower High School
2nd Place	Senior	Kendall Wu	Medicine and Health	Bioelectrical analysis of human phantoms to quantify bone density and diagnose osteoporosis	Hightower High School
2nd Place	Senior	Mihir Relan	Physics and Astronomy	A Hierarchical Labeling Deep Learning Framework for Classifying Particle Jets for Generalizable Jet Tagging	Debakey High School For Health Professions

2nd Place	Senior	Yash Semrani	Physics and Astronomy	A Hierarchical Labeling Deep Learning Framework for Classifying Particle Jets for Generalizable Jet Tagging	Debakey High School For Health Professions
2nd Place	Senior	Vibhan Emmi	Plant Sciences	The Effect of 2% Xylocaine Viscous Lidocaine Hydrochloride Liquid Solution on the Stomatal Movements of Laurus nobilis to Optimize Rate of Transpiration	Academy Of Science And Technology
2nd Place	Senior	Aditi Venkataraman	Plant Sciences	The Effect of 2% Xylocaine Viscous Lidocaine Hydrochloride Liquid Solution on the Stomatal Movements of Laurus nobilis to Optimize Rate of Transpiration	Academy Of Science And Technology
2nd Place	Senior	Praseedha Maddipatla	Robotics and Intelligent Machines	Stopping Each Shot: A Real-Time Open and Concealed Weapon Detection System for Instantaneous Preventative Action	Academy Of Science And Technology
2nd Place	Senior	Mia Wang	Robotics and Intelligent Machines	Stopping Each Shot: A Real-Time Open and Concealed Weapon Detection System for Instantaneous Preventative Action	Academy Of Science And Technology
2nd Place	Senior	Ruihan Ma	Systems Software	SignHi: Real-time Sign Language Recognition and Translation using Machine Learning	Academy Of Science And Technology
2nd Place	Senior	Grace Yuan	Systems Software	SignHi: Real-time Sign Language Recognition and Translation using Machine Learning	Academy Of Science And Technology
3rd Place	Junior	Gregorio SouzaGomes	Aerospace Engineering	The Tunnel of Aerodynamics	Mccullough Junior High School
3rd Place	Junior	Sophia Escobedo	Animal Sciences	The Future of Mosquito Defense is Sweet	Seabrook Intermediate
3rd Place	Junior	Lucille Lopez	Behavioral and Social Sciences	How scary images affect heart rate	Baylor College Of Medicine Biotech Academy At Rusk Ms
3rd Place	Junior	Grant Krenzke	Biomedical Engineering	Take it Kneesy	Seabrook Intermediate
3rd Place	Junior	Jacob Carlson	Chemical Engineering Materials Science	Rust? No more!	Seabrook Intermediate
3rd Place	Junior	Michelle Basi	Chemistry	The Effect of Fruit on Metabolism	Brookside Intermediate School
3rd Place	Junior	Ensi Lajthia	Earth and Environmental Sciences	How Does Carbon Dioxide Affect The Climate?	Mccullough Junior High School
3rd Place	Junior	Krys Altimas	Embedded Systems	Antennas in Handheld Radios	Mccullough Junior High School
3rd Place	Junior	Joshua Wallace	Energy and Transportation	Bio-Power: How Temperature Affects Microbial Power Generation	Peet Junior High School
3rd Place	Junior	Kyler Eimerbrink	Engineering Mechanics	Infill pattern strength on 3D objects	York Junior High School
3rd Place	Junior	Sua La	Environmental Engineering	Will a ""Reflective Insulator"" Work Better Than a Normal One? -And Which Side Should It Face?	Austin Middle School
3rd Place	Junior	Audrey Tremont	Mathematics	Pythagorean Theorem of Softball	Seabrook Intermediate

3rd Place	Junior	Ishaan Chaudhary	Medicine and Health	Reinventing the Medical Container	Fort Settlement Middle School
3rd Place	Junior	Skylar Cummings	Physics and Astronomy	The Effect of Ocean Water on the Tensile Strength of Natural Net Fibers.	Brookside Intermediate School
3rd Place	Junior	Berlin Rosenbaum	Plant Sciences	Preservation Time VS Nutrition	Seabrook Intermediate
3rd Place	Junior	Shri Chada	Robotics and Intelligent Machines	An Optimized Deep Learning Transformer Model for Humanitarian Assistance in Disaster Situations through Real-Time Extraction of Actionable Information from Social Media Data	Chada Home School - Ms
3rd Place	Junior	Eli Pham	Systems Software	Rolling, Recording, and More Rolling!	Spring Branch Academic Institute Ms
3rd Place	Junior	George Robinson	Systems Software	Rolling, Recording, and More Rolling!	Spring Branch Academic Institute Ms
3rd Place	Senior	Daniel Vassiliev	Aerospace Engineering	Optimizing Cooling Fan Design to Reduce Acoustics Levels on the International Space Station	Clear Lake High School
3rd Place	Senior	Iris Shen	Animal Sciences	The Effects of Decabromodiphenyl Ethane on the Growth and Development of Galleria mellonella: A Chronic Toxicity Study	Academy Of Science And Technology
3rd Place	Senior	Vicky Nguyen	Behavioral and Social Sciences	A Novel Approach of Using Electroencephalogram (EEG) Machine Learning to Predict Implicit Bias Towards Cancer Patients with Chemotherapy Induced Alopecia	Clear Brook High School
3rd Place	Senior	Sanjan Sarang	Biochemistry and Microbiology	Identification and Validation of a Novel Set of Early-Stage Lung Adenocarcinoma Biomarkers Using Bioinformatic Analysis of Human Tumor Tissue Samples	Academy Of Science And Technology
3rd Place	Senior	Rhea Chidambaram	Biochemistry and Microbiology	Home Waste to Power through Microbes	The Village School
3rd Place	Senior	Bethany Elliott	Biomedical Engineering	Modifying Tyrosine-Kinase Inhibitors to Adapt to Mutations in the Epidermal Growth Factor Receptor	Academy Of Science And Technology
3rd Place	Senior	Partha Naga	Chemical Engineering Materials Science	Manipulating the Shape of Ferrofluid Core to Enhance Electromagnet System	Clear Lake High School
3rd Place	Senior	Sophie Melancon	Chemistry	Development of Slow-Release Oral Formulations of Novel Therapeutic Agent OJT010 Against SARS-CoV-2	Kinder High School For The Performing And Visual Arts
3rd Place	Senior	Cindy Shen	Earth and Environmental Sciences	Assessing the Toxicity of Perfluorooctanoic Acid and its Byproducts After Decarboxylation and Defluorination by	Academy Of Science And Technology

				Dimethyl Sulfoxide on the Health of Daphnia magna and Lemna minor	
3rd Place	Senior	Joyce Wang	Earth and Environmental Sciences	Assessing the Toxicity of Perfluorooctanoic Acid and its Byproducts After Decarboxylation and Defluorination by Dimethyl Sulfoxide on the Health of Daphnia magna and Lemna minor	Academy Of Science And Technology
3rd Place	Senior	Shivam Gupta	Embedded Systems	Is it possible to design a better, safer, reliable, and cost-effective smart Physical Mobility System (smart PMS) for the convenience of a wide range of physically disabled people?	Friendswood High School
3rd Place	Senior	James Gerhard	Energy and Transportation	Designing a bioreactor to convert CO2 from coal and natural gas power plants to food, biofuels and chemicals	Academy Of Science And Technology
3rd Place	Senior	Francisco Coronado	Engineering Mechanics	Sensing the Next Step	Willowridge High School
3rd Place	Senior	Jason Merino	Engineering Mechanics	Sensing the Next Step	Willowridge High School
3rd Place	Senior	Derrick Villegas	Engineering Mechanics	Sensing the Next Step	Willowridge High School
3rd Place	Senior	Ada Wang	Environmental Engineering	Wandering Waves of Fury: Developing Hurricane Trajectory Predictions Using Ensemble-Based Machine Learning Models	Academy Of Science And Technology
3rd Place	Senior	Olivia Ye	Environmental Engineering	Wandering Waves of Fury: Developing Hurricane Trajectory Predictions Using Ensemble-Based Machine Learning Models	Academy Of Science And Technology
3rd Place	Senior	Kaamil Kaka	Mathematics	Integer Concatenation and its Generalizations	Harmony School Of Innovation - Hs Sugar Land
3rd Place	Senior	Abdullah Naim	Mathematics	Integer Concatenation and its Generalizations	Harmony School Of Innovation - Hs Sugar Land
3rd Place	Senior	Kevin Chen	Medicine and Health	Revolutionizing Hypertension Detection at Low Cost in Developing Countries Using Observable Variables	Debakey High School For Health Professions
3rd Place	Senior	Samir Kassam	Medicine and Health	Revolutionizing Hypertension Detection at Low Cost in Developing Countries Using Observable Variables	Debakey High School For Health Professions
3rd Place	Senior	Jeffrey Chen	Physics and Astronomy	The Effects of Different ""Covert Feathers"" on the Stall Angle of an Airfoil	Academy For Careers In Engineering And Science
3rd Place	Senior	Anna Singh	Plant Sciences	Agrivoltaic farming and crop productivity	Shadow Creek Hs
3rd Place	Senior	Arav Mehta	Robotics and Intelligent Machines	Echo Chess: Empowering the physically impaired	Tomball High School
3rd Place	Senior	Aayan Pattanayak	Robotics and Intelligent Machines	Echo Chess: Empowering the physically impaired	Tomball High School

3rd Place	Senior	Justin Huang	Systems Software	CorX: A Biosensing Application that Utilizes Machine and Deep Learning Algorithms to Predict Cardiac Events and Disease	Academy Of Science And Technology
3rd Place	Senior	Sri Kumbham	Systems Software	CorX: A Biosensing Application that Utilizes Machine and Deep Learning Algorithms to Predict Cardiac Events and Disease	Academy Of Science And Technology
3rd Place	Senior	Dawson Zhang	Systems Software	CorX: A Biosensing Application that Utilizes Machine and Deep Learning Algorithms to Predict Cardiac Events and Disease	Academy Of Science And Technology
Honorable Mention	Junior	Terrance Wicks	Aerospace Engineering	Bottle Rocket	Baylor College Of Medicine Biotech Academy At Rusk Ms
Honorable Mention	Junior	Laila Bogucki	Animal Sciences	I Toad You So! (Toad Deformities in lakes)	Northpointe Intermediate School
Honorable Mention	Junior	Varun Venkataraman	Behavioral and Social Sciences	Effect of image filters on mood perception of photos.	Mccullough Junior High School
Honorable Mention	Junior	Abigail Comer	Biochemistry and Microbiology	The Bacteria that are Among Us???	Seabrook Intermediate
Honorable Mention	Junior	Antonio Volpe	Biomedical Engineering	HEPA Filter Sanitizing System	Brookside Intermediate School
Honorable Mention	Junior	Gauri Chandran	Chemical Engineering Materials Science	Passive Noise Cancelling with Common Materials	Mccullough Junior High School
Honorable Mention	Junior	Ayden Mcveigh	Chemistry	Tape Durability	Seabrook Intermediate
Honorable Mention	Junior	Samanta Bonilla	Chemistry	The Unseen Power	Killough Middle School
Honorable Mention	Junior	Ruby Collins	Earth and Environmental Sciences	The Effects of Water Pollution in Woodlands Lakes and Rivers	Mccullough Junior High School
Honorable Mention	Junior	Arthur Jainsky	Energy and Transportation	Renewing the World	Spring Branch Academic Institute Ms
Honorable Mention	Junior	Pablo Sarkar	Energy and Transportation	Renewing the World	Spring Branch Academic Institute Ms
Honorable Mention	Junior	Jessica Wang	Engineering Mechanics	Sticky Note Friction	Emery Weiner Jewish School
Honorable Mention	Junior	Selina Yuan	Engineering Mechanics	Sticky Note Friction	Emery Weiner Jewish School
Honorable Mention	Junior	Tulgaa Borjigin	Environmental Engineering	Ocean Acidification - Robotic Solution?	Mccullough Junior High School
Honorable Mention	Junior	Aman Wairkar	Medicine and Health	Testing the effects of a GABA-inducing Bioflavonoid on the Locomotor Activity of Flies with Autism Spectrum Brain Disorders	League City Intermediate School
Honorable Mention	Junior	Adeline Bogun	Physics and Astronomy	Forces in the Air	Mccullough Junior High School

Honorable Mention	Junior	Shaivi Moparthi	Robotics and Intelligent Machines	Pink Ribbon- A Novel Method for Breast Cancer Detection using Machine Learning and Convolutional Neural Networks - Year 2	The Kinkaid School Ms
Honorable Mention	Junior	Maaz Ahamed	Systems Software	MLDataBot	Mccullough Junior High School
Honorable Mention	Senior	Caden Greene	Aerospace Engineering	effect of nosecones in drag reduction	Academy For Science And Health Professions
Honorable Mention	Senior	Ana Costa Augusto Contrucci	Behavioral and Social Sciences	Design of a Closed-Loop Microbial Opsin Stimulation Device for Optogenetic Alzheimer's Disease Therapies	Academy Of Science And Technology
Honorable Mention	Senior	Neha Anurag	Biochemistry and Microbiology	Effect of Cooking Oils on Brain Function in Drosophila Melanogaster	Ridge Point High School
Honorable Mention	Senior	Runvir Nibber	Biomedical Engineering	To what extent does a novel anti-tremor glove counteract tremors compared to an individual not wearing the glove?	Awty International School
Honorable Mention	Senior	Omar Reyes	Biomedical Engineering	To what extent does a novel anti-tremor glove counteract tremors compared to an individual not wearing the glove?	Awty International School
Honorable Mention	Senior	Irene Qian	Chemistry	The Effects of Dry and Liquid Electropolishing on Fencing Blades	Academy Of Science And Technology
Honorable Mention	Senior	Aayush Jetly	Embedded Systems	DampSniffer II: An Affordable, Machine-learning Aided Electronic Nose for Predicting the Possibility of Prolonged Dampness in Hard to Access Areas of the House	Friendswood High School
Honorable Mention	Senior	Sohan Kureti	Energy and Transportation	24/7 Energy Generation and Adaptability to Existing Alternative Energy Grid Infrastructure Through Semiconductor Heat Recovery	Harmony School Of Advancement Hs
Honorable Mention	Senior	Maheen Akhter	Engineering Mechanics	The Impact of Pier Shapes on Bridge Strength	Travis High School
Honorable Mention	Senior	Liza Davila	Environmental Engineering	Low Cost Thermal Insulators	Ball High School
Honorable Mention	Senior	Natalia Juarez	Environmental Engineering	Low Cost Thermal Insulators	Ball High School
Honorable Mention	Senior	Abhishek Tripathi	Mathematics	Analysis of Respiratory Disease Factors Through Gaussian Process, Random Forest, and Neural Networks	Academy Of Science And Technology
Honorable Mention	Senior	Brionna Grapeson	Medicine and Health	What A Bummer: OTC Polymer-Based and Magnesium-Based Formulas For Optimizing Bowel Cleansing For Colonoscopy Patients	Hightower High School

Honorable Mention	Senior	Isabella Oraska	Medicine and Health	What A Bummer: OTC Polymer-Based and Magnesium-Based Formulas For Optimizing Bowel Cleansing For Colonoscopy Patients	Hightower High School
Honorable Mention	Senior	Brina Patel	Medicine and Health	What A Bummer: OTC Polymer-Based and Magnesium-Based Formulas For Optimizing Bowel Cleansing For Colonoscopy Patients	Hightower High School
Honorable Mention	Senior	Thomas Creedon	Physics and Astronomy	UV Light impact on Bacteria	Clear Creek High School
Honorable Mention	Senior	Bianca Pethe	Plant Sciences	Utilizing a Machine Learning Model and Remote Sensing to Monitor the Effect of Meteorological Drought on Solar-Induced Chlorophyll Fluorescence	Academy Of Science And Technology
Honorable Mention	Senior	Grace Zhang	Plant Sciences	Utilizing a Machine Learning Model and Remote Sensing to Monitor the Effect of Meteorological Drought on Solar-Induced Chlorophyll Fluorescence	Academy Of Science And Technology
Honorable Mention	Senior	Rayhan Papar	Systems Software	Development of a Novel Live Surgical Aid for Brain Tumor Removal using Augmented Reality and Deep Learning	Academy Of Science And Technology