

2018 Finalists

First Name	Last Name	City	State	Project Title
Anna	Du	Andover	MA	Developing a Smart Infrared Based ROV to Identify Microplastics In Marine Environments
Bentley	Siems	Blue Springs	MO	Radiation's Effects on Bacteria Surface Area
Kate	Quinn	Louisville	KY	Exploring Atrazine's Neurotoxicity as a Possible Cause of Parkinson's Disease
Sriram	Bhimaraju	Cupertino	CA	Low-Cost Archery Assistant with an Interface for the Visually Impaired
Espen	Slettnes	Castro Valley	CA	Minimal Embedding Dimensions of Rectangle k-Visibility Graphs
Georgia	Hutchinson	Woodside	CA	Designing a Data-Driven Dual Axis Solar Tracker
John	Madland	Salem	OR	Solar Radiation Charged Particle Deflector
Kennedy	Rogers	Douglasville	GA	Play It Safe: Detecting Concussion Prone Impacts in Youth Sports
Mihir	Joshi	Salem	OR	Terrella Aurora Model: A Demonstration of Charged Particle Shielding for Space Exploration
Roy	Gross	Palo Alto	CA	An Emergency Communication Mesh Network for Civilians: Lessons from Puerto Rico
Tyler	Bissoondial	Bellmore	NY	MicroRNA-156 regulates gametophyte to sporophyte development and sensitivity to salinity in <i>Ceratopteris richardii</i>
Ahmad	Ismail	Santa Clara	CA	Effect of Combination Antifungal Therapy on the Treatment of Candidiasis
Akshaya	Venkatesh	Scottsdale	AZ	A Novel Mobile App to Minimize Food Waste and Maximize Harvest
Alice	Feng	San Jose	CA	The Effect of Mushroom Species and Substrates on the Properties of a Novel Biodegradable Material: Mycelium
Amara	Orth	Glenwood	IA	Chemical analysis of honey bee propolis: Habitat diversity affects the quality of propolis, an essential component of honey bee colonies
Asmi	Kumar	Milton	GA	Developing a Device to Predict Autistic Meltdowns Using Arduino & MS Azure
Gabriela	Muriel	Aventura	FL	Paraplegics Achieving Stability in the Vertical Wind Tunnel
Gabriella	Lui	Bellevue	WA	Design a Fully Automated Real Time Presence Detection Safety System in a School Environment Using Radio Frequency Identification (RFID) Technology
Gary	Zhan	North Logan	UT	The colder, the bluer – Significant enhancement of indigoidine production using a cold-shock inducible promoter
Jack	Albright	Los Altos	CA	Predicting the Future: Using Machine Learning to Forecast the Progression of Alzheimer's Disease
Jacqueline	Prawira	Mountain House	CA	Bio.fiber.plastic: The Effect of Lignocellulosic Fiber in Enhancing the Formation and Tensile Strength of Rice Bioplastic
James	Fagan	Riverside	CA	Design and Calibration of a Subsonic, Low Density Wind Tunnel for Martian Aerodynamic Research
Janani	Kumaran	Gainesville	FL	Integrated Control of the Invasive Aquatic Plant Hydrilla Using Snails and a Plant Growth Regulator (Continuation Project: Year 2)

Laura	Reilly	San Antonio	TX	The Role of Tilapia Skin and UV Light on Tissue Regeneration and Wound Healing
Leo	Wylonis	Berwyn	PA	"Make Airplanes Great Again": Optimizing and Controlling Aircraft Wing Shape and Efficiency In-Flight Through Novel Polymer Artificial Muscle Actuators
Lillian	Mefford	Panama City Beach	FL	Operation Turtle Grass: Exploring the Relationship Between Turbidity & Thalassia Testudinum In St. Andrew Bay & Grand Lagoon
Pratik	Vangal	Portland	OR	Ameliorating acute respiratory infections from solid biomass fuel combustion and empowering rural kitchens with a sustainable, cost-effective ventilation solution
Shreyas	Kar	Louisville	KY	Right Charity – a software-based web application to bring donors, charities and receivers on the same platform and facilitate to donate and distribute most needed items to right people at right time
Varun	Madan	Orlando	FL	Field Testing of Feeding Bacterium Bifidobacterium infantis (found in a human gut probiotic) in order to improve Honey Bee Health
William	Jenkins	Atlanta	GA	Robotic Tennis Ball Sorter