

2024 USEF - Junior Division

Category and Rank	Name	School	Project Title
Behavioral & Social Sciences - First	Peter Kim	West High	Can Cannabis Legalization for Adults Lead to a Rise in Adolescent Use?
Behavioral & Social Sciences - Second	Evalyn Rawlings	Clarke N. Johnsen Jr. High	A.I. Don't Know!
Behavioral & Social Sciences - Third	Alexander Bonner	Hillside Middle School	Artificial Intelligence and FEAR!!
Behavioral & Social Sciences - Fourth	Sophie Heimbürger & Vivien Zhang	Wasatch Jr. High	Can Your Robot Win A National Book Award?
Biology & Microbiology - First	Sofia Iqbal	Challenger	Zap That Zit
Biology & Microbiology - Second	Mckenzie Bolin	Clarke N. Johnsen Jr. High	Is it Clean?
Biology & Microbiology - Third	Isaac Wilson	Clarke N. Johnsen Jr. High	Do Honey Bees Pollinate Lavender? A Follow Up Study In France
Biology & Microbiology - Fourth	Sohum Krishna & Atharv Khemka	West High	Algal Cultivation and Carbon Sequestration to Prevent Climate Change
Chemistry & Biochemistry - First	Keertana Parameswaran	Challenger	Acidic Amylase
Chemistry & Biochemistry - Second	Albert Xu	Challenger	Bioplastics with Red Cabbage Anthocyanins: Synthesis and Application as pH-Sensitive Sensors
Chemistry & Biochemistry - Third	Aditya Sridhar	Challenger	Innovative Microplastics Removal: A Deep-Learning and Ferrofluid Approach
Chemistry & Biochemistry - Fourth	Andy Lin	Wasatch Jr. High	Unraveling the Corrosion Mystery: Advancements in Understanding Steel Anti-Corrosion
Civil & Environmental Engineering - First	Sophia Zhang	Rowland Hall	Green Solution for Blue Gold: Examining Three Types of Biodegradable Hydrogels on Water Conservation in Irrigation
Civil & Environmental Engineering - Second	Mary Fedorov	Challenger	S (cubed): Spill, Sorb, Save
Civil & Environmental Engineering - Third	Estella Myers	Challenger	Plant Lives Matter
Civil & Environmental Engineering - Fourth	Hans Blankenau, Torr Hardin & Stephen Lengel	Churchill Jr. High	Quieting Drones 2.0
Computer Science & Applied Computational Methods - First	Ansh Devlekar	Challenger	Deliver It Right
Computer Science & Applied Computational Methods - Second	Karthik Chaganti	West High	Memory Reunion - Adaptive neurogaming app for Alzheimer's patients
Computer Science & Applied Computational Methods - Third	Andrew Larson & Anders Schultz	Churchill Jr. High	Meal Mission
Computer Science & Applied Computational Methods - Fourth	Anushka Rajeev	Midvale Middle School	Slow Play in Golf is Just Like Driving on I-15, Not Fun!
Earth & Environmental Sciences - First	Samuel Smith	J.E. Cosgriff Memorial	How Does Dust From The Exposed Lakebed Of The Great Salt Lake Impact Utah's Snowpack?
Earth & Environmental Sciences - Second	Jayden Roos	West High	Foreverglades: How nutrient pollution is killing the Everglades
Earth & Environmental Sciences - Third	Kethan Reddy	Challenger	Organosilanes for Microplastic Cleanup
Earth & Environmental Sciences - Fourth	Christopher Joklik	St. John the Baptist Middle School	Sea Monkey Science
Electrical Engineering - First	Charlotte Soelberg	Churchill Jr. High	Wind-Powered Pendulum Generator
Electrical Engineering - Second	Liam Black	Clarke N. Johnsen Jr. High	Under Pressure
Electrical Engineering - Third	Ella Hagopian	American Preparatory Academy APA Draper 3	Time is Running Out
Electrical Engineering - Fourth	Jack Tripp	Albion Middle School	What is the optimal environment for electrically conductive paint?
Energy: Chemical & Physical - First	Dalia Habib	Challenger	Enzyme Activity: Biomass to Biofuel
Mechanical & Materials Engineering - First	Liam Stoll	Churchill Jr. High	Airfoil Modifications to Improve Lift
Mechanical & Materials Engineering - Second	Triton Tran	St. Vincent de Paul School	Eco-Friendly Engine
Mechanical & Materials Engineering - Third	David Russo	St. Joseph Elementary School	Will it Fly?
Mechanical & Materials Engineering - Fourth	Charlotte Larsen, Lena Dalley & Antonella Silva	Channing Hall	The Wheel Hanger
Medicine, Health Sciences, & Biomedical Engineering - First	Noah Boyle	Challenger	Cancer Detection AI
Medicine, Health Sciences, & Biomedical Engineering - Second	Edward Pan	The Waterford School	Investigating the Impact of Bifenthrin on Human Cells: Implications for Cancer Development and Public Health

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Medicine, Health Sciences, & Biomedical Engineering - Third	Aimee Solzbacher	Rowland Hall	Development of a simulator for blindness to define requirements for a visual prosthesis
Medicine, Health Sciences, & Biomedical Engineering - Fourth	Conner Barton	American Heritage	One Leg to Rule Them All
Physics, Astronomy & Math - First	Aashita Mandiwal	West High	Using Fractal Dimension to Detect Abnormalities in Cancerous Cells
Physics, Astronomy & Math - Second	Pranav Bagirathan	Challenger	Water as a circuit element
Physics, Astronomy & Math - Third	Valentino Peterson	American Heritage	Improving Rocket Performance by Using Ceramic Coating Technologies to reduce Skin Friction Drag.
Physics, Astronomy & Math - Fourth	Nomar Santana	Blessed Sacrament	Speedy Sunspots
Plant Sciences - First	Ryan Belgique	J.E. Cosgriff Memorial	Plants in Space
Plant Sciences - Second	Brooklyn Keife	St. John the Baptist Middle School	Rooted in Variation
Plant Sciences - Third	Amy Hu	Challenger	Take Root
Plant Sciences - Fourth	Vincent Hildebrand	J.E. Cosgriff Memorial	How Does the pH Level of Water Affect A Plant's Growth?