

**2025 USEF - Junior Division**

<b>Category and Rank</b>	<b>Name</b>	<b>School</b>	<b>Project Title</b>
Behavioral & Social Sciences - First	Ellianna Gu	Wasatch Jr. High	Is Seeing Really Believing?: Can humans tell the difference between reality and AI?
Behavioral & Social Sciences - Second	Calvin Simon	J.E. Cosgriff Memorial	The Effect Fidgets Have on Students With and Without ADHD
Behavioral & Social Sciences - Third	Vivien Zhang, Sophie Heimbürger	Wasatch Jr. High	The Stroop Effect: Why I Didn't do my Homework
Behavioral & Social Sciences - Fourth	Bella Newton	St. John the Baptist Middle School	Spatial Strategy
Biology & Microbiology - First	Aditi Nagalingam	West High	Fractal Analysis of Slime Mold Networks as a Cancer Vascularization Model
Biology & Microbiology - Second	Zoey Swenson	Challenger	Biofilm
Biology & Microbiology - Third	Cash Clason	Our Lady of Lourdes	The Dirty Dilemma
Biology & Microbiology - Fourth	Rowan Kinsey	Wasatch Jr. High	What Common Household Materials Filter Roof Harvested Rainwater the Best?[]
Chemistry & Biochemistry - First	Alisha Chapala	Challenger	The Bleaching Point: Exploring Hair's Threshold
Chemistry & Biochemistry - Second	Adwita Mandiwal	West High	Breathing Between the Lines: Using VOCs as a Path to Early Cancer Detection
Chemistry & Biochemistry - Third	Winston Turpin	Challenger	Absorption of Tetrahydrofuran Using Magnesium Compounds
Chemistry & Biochemistry - Fourth	Usha Addanki	Challenger	Fantastic Plastic
Civil & Environmental Engineering - First	Mary Fedorov	Challenger	Cleaning Utah Air: Analyzing the Efficiency of Various Pre-Filters in Smoke Particle Removal
Civil & Environmental Engineering - Second	Kethan Reddy	Challenger	A Machine Learning Approach to the Detection and Removal of Microplastics using Coagulation
Civil & Environmental Engineering - Third	Joshya Yerrapureddy	West High	Landscapes in Pixels: Advancing Agricultural Strategies through Histogram-Based Color
Civil & Environmental Engineering - Fourth	Linnea Schmid	Wasatch Jr. High	Building a Smart Watering System
Computer Science & Applied Computational Methods - First	Anushka Rajeev	Midvale Middle School	Comparing AI Generated Text with Student Responses Using Computer Programming
Computer Science & Applied Computational Methods - Second	Alexander Huamani, Anaya Paul	Wasatch Jr. High	Think Buddy
Computer Science & Applied Computational Methods - Third	Karthik Chaganti	West High	LifeLine AI: Predict, Prevent and Save Lives (AI Powered Suicide Prevention)
Computer Science & Applied Computational Methods - Fourth	Milo Patterson	Riverview Jr. High	Recyclotron
Earth & Environmental Sciences - First	Daphne Wilson	Wasatch Jr. High	Breathe Easy: Improving Air Quality in Your Home
Earth & Environmental Sciences - Second	Ted Henry Barratt	Beehive Academy	Terror in the Turf
Earth & Environmental Sciences - Third	Hyrum Perkins, Jose Fuentes Rocha	Albion Middle School	Understanding the air quality crisis in Salt Lake County
Earth & Environmental Sciences - Fourth	Syona Negi	Challenger	Simple CarbonFootprint Calculator
Electrical Engineering - First	Pranav Bagirathan	Challenger	Hybrid Electric House
Electrical Engineering - Second	Talia Clark	Challenger	Experimental Validation of the Principles of a Step-up Transformer
Electrical Engineering - Third	Isha Rane	American Preparatory Academy APA Draper 3	Powering the Future with Sound
Electrical Engineering - Fourth	Skyler Pearson	American Preparatory Academy APA Draper 3	Solar Powered Temperature Activated Fans
Energy: Chemical & Physical - First	Ethan Tang, Nathan Li	Wasatch Jr. High	The Effect of Molecular Structure On Thermal Conductivity (At 20 C)
Energy: Chemical & Physical - Second	Jayden Roos	West High	Fission Impossible: The Future of Nuclear Energy
Energy: Chemical & Physical - Third	Hannah Ross	J.E. Cosgriff Memorial	How does the design of a soccer ball affect force?
Energy: Chemical & Physical - Fourth	Katherine Fowler	J.E. Cosgriff Memorial	Power Density
Mechanical & Materials Engineering - First	Aaditya Kuberan	West High	TidyBot: Your Mini Cleaning Companion
Mechanical & Materials Engineering - Second	Thompson Wright	Wasatch Jr. High	Grasping Innovation: A New and Improved Rock Climbing Hang Board
Mechanical & Materials Engineering - Third	Madison Titus	Weilenmann School of Discovery	The Sock Problem
Mechanical & Materials Engineering - Fourth	Haylin Lee	American Preparatory Academy APA Draper 3	The Bright Future for Toddler Security: The Night Time Sensor Module

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Medicine, Health Sciences, & Biomedical Engineering - First	Lily Coulter	Challenger	Quantifying Bacterial Resistance to Antibiotics
Medicine, Health Sciences, & Biomedical Engineering - Second	Lina Saleh	Rowland Hall	Can We Reduce Perchlorate and Lead Toxicity in Baby's Food ?
Medicine, Health Sciences, & Biomedical Engineering - Third	Emma Wann	Our Lady of Lourdes	Buzz Off! A natural, safe, effective and long-lasting way of keeping Horses safe from Horse Flies
Medicine, Health Sciences, & Biomedical Engineering - Fourth	Kaden Swallow	Clarke N. Johnsen Jr. High	Sweet Alternatives: Comparing the Effects of Sugar Substitutes on Blood Sugar Levels
Physics, Astronomy & Math - First	Aashita Mandiwal	West High	Modeling Lung Cancer Growth Using Differential Equations
Physics, Astronomy & Math - Second	Sophia Langerica	Entheos Academy	Composite vs aluminum
Physics, Astronomy & Math - Third	Catherine Fuller	St. John the Baptist Middle School	Delivering Power
Physics, Astronomy & Math - Fourth	Gwendolyn Slattery	Hillside Middle School	Aerodynamic Race Cars
Plant Sciences - First	Lauren Hildebrand	J.E. Cosgriff Memorial	Which types of plants consume carbon dioxide the fastest?
Plant Sciences - Second	Dalia Habib	Challenger	The Desert Garden
Plant Sciences - Third	James Jones	Wasatch Jr. High	Hydroponics vs. Soil- How Will it Grow?
Plant Sciences - Fourth	Aiden Nguyen	Challenger	Nature's Neutralizers