

2024 USEF - Special Awards

Award Name	Name	School	Project Title
Air and Waste Management Association - Great Basin Chapter Award	Quinn Orgain, Marina Peng & Halle Baughman	Rowland Hall	Microalgae Bio-cement: A Strong and Sustainable Alternative to Traditional Cement Production
American Psychological Association Award	Sierra Sun	The Waterford School	Differential Empathy and the Limitations of Social Science Research
Association for Women Geoscientists - Junior Division 1st Place	Mary Fedorov	Challenger	S (cubed): Spill, Sorb, Save
Association for Women Geoscientists - Junior Division 2nd Place (tie)	Rebecca Siwale	St. John the Baptist Middle School	Shell Shock; The Impact of Acidity on Shells
	Sophia Zhang	Rowland Hall	Green Solution for Blue Gold: Examining Three Types of Biodegradable Hydrogels on Water Conservation in Irrigation
Association for Women Geoscientists - Senior Division 1st Place	Arianna Vazquez	Juan Diego Catholic High	Exploring the Impact of Wildfires on Algae Growth in Utah Lake
Association for Women Geoscientists - Senior Division 2nd Place	Hazel Wilde	Salt Lake Center for Science Education (SLCSE)	Snow Weigh; There's an Avalanche!
Astrophysique Pioneer Award	Natalie Germanov & Sanskriti Negi	West High	Rendering Higher Dimensions with Ray Tracing
Bosch Motorsport Women in STEM Award	Nina Zhu	West High	Antler Regeneration-Associated Proteins Promote Regenerative Cell Behaviors in Mouse Bone Progenitor Cells
Broadcom Coding With Commitment	Rain Wang	Morningside ALC	Predicting Whether an Individual Has Diabetes Using Logistic Regression Modeling
Code Craft Award	Aimee Solzbacher	Rowland Hall	Development of a simulator for blindness to define requirements for a visual prosthesis
	Karthik Chaganti	West High	Memory Reunion - Adaptive neurogaming app for Alzheimer's patients
FRIENDS of Great Salt Lake Awards - Elementary Division	Leigh Burningham	Driggs Elementary	What's killing one of Great Salt Lake's Important Food Sources?
FRIENDS of Great Salt Lake Awards - Junior Division	Samuel Smith	J.E. Cosgriff Memorial	How Does Dust From The Exposed Lakebed Of The Great Salt Lake Impact Utah's Snowpack?
GENIUS Olympiad	Quinn Orgain, Marina Peng & Halle Baughman	Rowland Hall	Microalgae Bio-cement: A Strong and Sustainable Alternative to Traditional Cement Production
	Angelina Nguyen	Hunter High	Enhancing Energy from Fast-Food Waste in Microbial Fuel Cells: Electrode Configurations and Oil-Rich Substrates
	Arianna Vazquez	Juan Diego Catholic High	Exploring the Impact of Wildfires on Algae Growth in Utah Lake
	Krishnam Goel	West High	Redefining the Paradigm of Toxic Algal Blooms under Nutrient-Limited Conditions- A Breakthrough in Cyanobacterial Genomics
	Caroline Cook	Salt Lake Center for Science Education (SLCSE)	Interpreting Local Fossil Fuel Use with Stable Carbon Isotopes in Tree Rings
Lemelson Early Inventor Prize	Lucy Caine & Elizabeth Gurgel	Indian Hills Elementary	Fish Out of Water
Loveland Living Planet Aquarium Award - Elementary Division	Natasha Pakhtoussova	St. John the Baptist Middle School	Nanotechnology cleans the ocean.
Loveland Living Planet Aquarium Award - Junior Division	Samuel Smith	J.E. Cosgriff Memorial	How Does Dust From The Exposed Lakebed Of The Great Salt Lake Impact Utah's Snowpack?
Loveland Living Planet Aquarium Award - Senior Division	Gabriella Miranda, Samuel Morse & Mikko Anderson	Rowland Hall	Competitive Algal Growth Dynamics of Chlorella and Scenedesmus in Varied Nitrogen-Phosphorus Growth Media
Marinda Therapeutics Aspiring STEM Researcher - Elementary	Serena Liu	Bonneville Elementary	Mobile Exhaust Hood
Marinda Therapeutics Aspiring STEM Researcher - Junior	Violet Mckinney	Riverview Jr. High	What if I Boil it?
Mission Math Awards - Elementary Division 1st Place	Rain Wang	Morningside ALC	Predicting Whether an Individual Has Diabetes Using Logistic Regression Modeling
Mission Math Awards - Elementary Division 2nd Place	Truman Barney	Morningside ALC	The Birthday Paradox
Mission Math Awards - Elementary Division 3rd Place	Catherine Fuller	Challenger	Under Pressure

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Mission Math Awards - Junior Division 1st Place	Aashita Mandiwal	West High	Using Fractal Dimension to Detect Abnormalities in Cancerous Cells
Mission Math Awards - Junior Division 2nd Place	Alexander Bonner	Hillside Middle School	Artificial Intelligence and FEAR!!
Mission Math Awards - Junior Division 3rd Place	Sophia Zhang	Rowland Hall	Green Solution for Blue Gold: Examining Three Types of Biodegradable Hydrogels on Water Conservation in Irrigation
NASA Earth System Science Award	Gabriella Miranda, Samuel Morse & Mikko Anderson	Rowland Hall	Competitive Algal Growth Dynamics of Chlorella and Scenedesmus in Varied Nitrogen-Phosphorus Growth Media
National Oceanic and Atmospheric Administration	Cloud Garcia Ruiz	Salt Lake Center for Science Education (SLCSE)	Great Salt Lake is in Danger!
Office of Naval Research - Junior Division	Rebecca Siwale	St. John the Baptist Middle School	Shell Shock; The Impact of Acidity on Shells
	Everett Mendenhall	Our Lady of Lourdes	The Effects of Different Materials on The Comfort and Durability of 3d Printed Prosthetics
	Katie Ross	J.E. Cosgriff Memorial	How does body temperature affect cognitive performance?
	Alisha Chapala	Challenger	Seaweed Fabric
	Oskar Kapitonov	Beehive Academy	Using Neural Networks for Obstacle Avoidance
Office of Naval Research Awards - Senior Division	Narayani Shankar	Hillcrest High	A Novel Method of Determining Virus Origins through Mean Squared Error Analysis and Java Programs
	Ridhitha Nachaegari	The Waterford School	Heart Rate Monitor: A Student's Version
	Eva Dvoretzkiy	West High	Non-Drug Approach to Treating Dermatophyte-Induced Tinea Unguim with 1,064 nm Nd:YAG Laser
Regeneron Biomedical Science Award	Sahil Shah	The Waterford School	A Novel Therapeutic Approach for Peripheral Neural Sheath Tumors
Ricoh Sustainable Development Award	Brian Schlisman & Annukka Payne-Rinne	Salt Lake Center for Science Education (SLCSE)	Particulate Matter and Biodiesel
Society for In Vitro Biology Award	Jennifer Dipoma	Juan Diego Catholic High	Understanding How The p53-Bad* Gene Therapy Triggers Cell Death in Liver Cancer
Stockholm Junior Water Prize Award	Krishnam Goel	West High	Redefining the Paradigm of Toxic Algal Blooms under Nutrient-Limited Conditions- A Breakthrough in Cyanobacterial Genomics
T.D. Williamson's Outstanding Young Scientist 1st Place	Natasha Pakhtoussova	St. John the Baptist Middle School	Nanotechnology cleans the ocean.
T.D. Williamson's Outstanding Young Scientist 2nd Place	William Franks & Emmanuel Adebunmi	Bonneville Elementary	Do Plants Sense Gravity
T.D. Williamson's Outstanding Young Scientist 3rd Place	Catherine Fuller	Challenger	Under Pressure
T.D. Williamson's Outstanding Project in Energy or Environmental Science - Junior Division 1st Place	Srivatsav Sura	American Preparatory Academy APA Draper 3	The Impact of Nutrients on Cyanobacteria
T.D. Williamson's Outstanding Project in Energy or Environmental Science - Junior Division 2nd Place	Sohum Krishna & Atharv Khemka	West High	Algal Cultivation and Carbon Sequestration to Prevent Climate Change
T.D. Williamson's Outstanding Project in Energy or Environmental Science - Junior Division 3rd Place	Ella Hagopian	American Preparatory Academy APA Draper 3	Time is Running Out
T.D. Williamson's Outstanding Project in Energy or Environmental Science - Senior Division 1st Place	Krishnam Goel	West High	Redefining the Paradigm of Toxic Algal Blooms under Nutrient-Limited Conditions- A Breakthrough in Cyanobacterial Genomics
T.D. Williamson's Outstanding Project in Energy or Environmental Science - Senior Division 2nd Place	Aadhi Umamageswaran	West High	Silhouettes of Sound (Fingerprinting Animal Vocalizations for Species Identification)
T.D. Williamson's Outstanding Project in Energy or Environmental Science - Senior Division 3rd Place	Evan Weinstein, Aiden Gandhi & Eli Hatton	Rowland Hall	A Novel Multi-Modal Drone for Remote Water Testing
ThermoFisher Junior Innovators Challenge	Edson Mendoza	Esperanza Elementary	Helpful Hydrogels
	Natasha Pakhtoussova	St. John the Baptist Middle School	Nanotechnology cleans the ocean.
	Devere Fogarty	Emerson Elementary	Creating a Door Opening Machine Using LEGO Materials
	Lucy Caine & Elizabeth Gurgel	Indian Hills Elementary	Fish Out of Water

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ThermoFisher Junior Innovators Challenge - cont...	Nathan Rivet	St. John the Baptist Middle School	3D Printer Nozzle Temperatures
	Lina Saleh	Rowland Hall	Will Salt Loving Plants Save us from the Arsenic in the Great Salt Lake?
	Claire Pearson	Whittier Elementary (SLC)	Does Temperature Affect Sweetness Perception?
	Holland Smith	Wasatch Jr. High	Evaluating the Efficacy of Beef Tallow Soap as a Natural Remedy for Atopic Dermatitis
	Marina Chen	Challenger	Crashing The Particle "Party": The Effect of Different Air Purification Methods on the Removal of Large and Small Particles
	Catherine Fuller	Challenger	Under Pressure
	Rowan Kinsey	Canyon Rim Academy	What Common Household Materials Filter Roof Harvested Rainwater the Best?
	Emily Schmidt, Kjersti Tessem & Janessa Child	Channing Hall	Flexibility With Age
	Dalia Habib	Challenger	Enzyme Activity: Biomass to Biofuel
	Samuel Smith	J.E. Cosgriff Memorial	How Does Dust From The Exposed Lakebed Of The Great Salt Lake Impact Utah's Snowpack?
	Sophia Zhang	Rowland Hall	Green Solution for Blue Gold: Examining Three Types of Biodegradable Hydrogels on Water Conservation in Irrigation
	Mary Fedorov	Challenger	S (cubed): Spill, Sorb, Save
	Ansh Devlekar	Challenger	Deliver It Right
	Jayden Roos	West High	Foreverglades: How nutrient pollution is killing the Everglades
	Kethan Reddy	Challenger	Organosilanes for Microplastic Cleanup
	Peter Kim	West High	Can Cannabis Legalization for Adults Lead to a Rise in Adolescent Use?
	Keertana Parameswaran	Challenger	Acidic Amylase
	Albert Xu	Challenger	Bioplastics with Red Cabbage Anthocyanins: Synthesis and Application as pH-Sensitive Sensors
	Christopher Joklik	St. John the Baptist Middle School	Sea Monkey Science
	Aashita Mandiwal	West High	Using Fractal Dimension to Detect Abnormalities in Cancerous Cells
	Noah Boyle	Challenger	Cancer Detection AI
	Edward Pan	The Waterford School	Investigating the Impact of Bifenthrin on Human Cells: Implications for Cancer Development and Public Health
	Aditya Sridhar	Challenger	Innovative Microplastics Removal: A Deep-Learning and Ferrofluid Approach
	Liam Stoll	Churchill Jr. High	Airfoil Modifications to Improve Lift
	Charlotte Soelberg	Churchill Jr. High	Wind-Powered Pendulum Generator
Tracy Aviary's Utah Conservation Awards 1st Place	Zurie Rowberry, Scarlet Orton & Willow Hackwell	Viewmont Elementary	Save the Ducks
Tracy Aviary's Utah Conservation Awards 2nd Place	Nora Waltman & Emily Lowe	Indian Hills Elementary	Winter Windshields - A Better Solution
United States Air Force Award - Elementary Division	Janey Kobe	Cottonwood Elementary	Rowing With Science
United States Air Force Awards - Junior Division	Hinckley Jeppson	Hunter Jr. High	Superior Mars Exploration
	Ethan Kim	West High	Evaluating the Impact of Free Fare February on Air Quality in Salt Lake City
United States Air Force Awards - Senior Division	Dan Jiang	West High	The Implications of Fractal Geometry in Plants
U.S. Agency for International Development (USAID) Award	Emma Martin	Juan Diego Catholic High	Inequity Across the Ages: the Impact of Historical Housing Discrimination on Health in Salt Lake City
US Metric Association Award	Aidan Mulligan	Juan Diego Catholic High	Characterization of unlicensed GS-441524 and GC376 purchased for off-label FIP treatment
USEF Director's Award - Elementary Division	Nora Kaufman	Driggs Elementary	What Environments Encourage Kids to Read?
USEF Director's Award - Junior Division	Isaac Wilson	Clarke N. Johnsen Jr. High	Do Honey Bees Pollinate Lavender? A Follow Up Study In France

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USEF Director's Award - Senior Division	Grayson Gagnon	Juan Diego Catholic High	Investigating Possible DNA Damage Associated With Nail Lamps
USEF Student Advisory Board (SAB) Awards - Elementary Division 1st Place	Thayne Thomas	Bonneville Elementary	Blades of Steel: The Physics of Hockey Skate Sharpening
USEF Student Advisory Board (SAB) Awards - Elementary Division 2nd Place	Damen Stephens	Cottonwood Elementary	Bike bubble wrap
USEF Student Advisory Board (SAB) Awards - Elementary Division 3rd Place	Holland Smith	Wasatch Jr. High	Evaluating the Efficacy of Beef Tallow Soap as a Natural Remedy for Atopic Dermatitis
USEF Student Advisory Board (SAB) Awards - Junior Division 1st Place	Adwita Mandiwal	West High	Self-Administering Artificial Pancreas to Control Diabetes
USEF Student Advisory Board (SAB) Awards - Junior Division 2nd Place	Catherine Eagar	Our Lady of Lourdes	The determination of the best acne medication to treat bacterial acne.
USEF Student Advisory Board (SAB) Awards - Junior Division 3rd Place	Karthik Chaganti	West High	Memory Reunion - Adaptive neurogaming app for Alzheimer's patients
USEF Writing Competition Winner	Adwita Mandiwal	West High	
Yale Science and Engineering Association Award	Sierra Sun	The Waterford School	Differential Empathy and the Limitations of Social Science Research