

# 2025 Colorado Science and Engineering Fair

## Special Awards Press Release

### Colorado Science & Engineering Fair

#### *Elemer Bernath Technical Writing Award*

Anirudh Rao 7th grade  
certificate, \$25  
STEM School Highlands Ranch  
*A Novel Approach to Wound Management Using Hydrovoltaic Sensors*

Ella Music 8th grade  
certificate, \$50  
Summit Charter Middle School Boulder  
*A Haptic Guidance System for Visually Impaired Sport Climbers*

Wensen Fang 8th grade  
certificate, \$100  
Summit Charter Middle School Boulder  
*Blazing Bright: Uncovering the Truth Behind Wildfires in Colorado via Machine Learning*

#### *Ralph Desch Technical Writing Award*

Serene Park 11th grade  
certificate, \$25  
Cherry Creek High School Greenwood Village  
*The Effect of Glyphosate on Bacillus subtilis Biofilm*

Devang Pandey 12th grade  
certificate, \$50  
Fairview High School Boulder  
*Enhancing Brain Tumor Classification with Synthetic Data Via Gen Models and Hybrid Training*

Vanya Lavu 12th grade  
certificate, \$100  
The Classical Academy Colorado Springs  
*Developing a Novel Enzyme Therapy for Improving GAD and Gastrointestinal Health in Rats*

#### *Junior Division Student Choice Award*

Evan Gopinath 7th grade  
certificate, momentum  
Nevin Platt Middle School Boulder  
*The Pumpkin Carver*

#### *Senior Division Student Choice Award*

Teagan Bruchez 10th grade  
certificate, momentum  
West Grand High School Kremmling  
*The Effects of the Transfer of Wolves and the Fertility Rate of Grand County Cattle*

#### *Poster Art Contest*

Anirudh Rao 7th grade  
certificate, \$100, use of artwork for next year's publications & t-shirt design  
STEM School Highlands Ranch

### Pioneers of Science

#### *Burt Ratan Energy Award*

Ingram Olson 6th grade  
\$50, certificate, poster of pioneer scientist  
Telluride Intermediate School Telluride  
*A Better Solar Panel: Can Coating Solar Panels Improve Their Efficiency?*

#### *Dian Fossey Animal Sciences Award*

Ava Shah 8th grade  
\$50, certificate, poster of pioneer scientist  
Summit Charter Middle School Boulder  
*How Exercise Affects Stress Levels in Horses*

#### *Elizabeth Helen Blackburn Biomedical & Health Sciences Award*

Trynity Typhair 8th grade  
\$50, certificate, poster of pioneer scientist  
West Grand Middle School Kremmling  
*You Are What You Eat*

#### *George Tchobanoglous Environmental Engineering Award*

Paisley Anderson 8th grade  
\$50, certificate, poster of pioneer scientist  
Creede Schools Creede  
*Mineral Mining Monsters: Time Will Tail*

#### *Isaac Newton Physics & Astronomy Award*

Yezan Kassir 8th grade  
\$50, certificate, poster of pioneer scientist  
Crescent View Academy Aurora  
*Marble Roller Coaster*

#### *James Patrick Allison Micro & Molecular Biology Award*

Grace Cullen 8th grade  
\$50, certificate, poster of pioneer scientist  
Yuma Middle School Yuma  
*Bacteria Buster*

#### *John Goodenough Chemistry Award*

Jocelyn Kramer 8th grade  
\$50, certificate, poster of pioneer scientist  
Good Shepherd Catholic School Denver  
*To Be or Not To Be Organic*

#### *Leon Festinger Behavioral & Social Sciences Award*

Anabelle Pettinger 8th grade  
\$50, certificate, poster of pioneer scientist  
Vilas Schools Vilas  
*Technology with the Youth*

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### *Luther Burbank Plant Sciences Award*

Gabriel Ferguson 7th grade  
\$50, certificate, poster of pioneer scientist  
Craver Middle School Colorado City  
*Rootin' Rivals*

### *Mary Ainsworth Behavioral & Social Sciences Award*

Layla Reiss 8th grade  
\$50, certificate, poster of pioneer scientist  
Summit Charter Middle School Boulder  
*Saving the Team*

### *Steven Chu Engineering Award*

Alex Dicker 7th grade  
\$50, certificate, poster of pioneer scientist  
Monte Vista Middle School Monte Vista  
*Screw Water*

### *Tim Berners-Lee Mathematics & Computer Sciences Award*

Oliver Ciembronowicz 7th grade  
\$50, certificate, poster of pioneer scientist  
Vallis Cymbia Academaie Frederick Homeschool  
*Are They Listening To Us?*

### *Wangari Muta Maathai Earth & Environmental Sciences Award*

Kayla Melby 6th grade  
\$50, certificate, poster of pioneer scientist  
Yuma Middle School Yuma  
*Photosynthesis Through Thick and Thin: Development of a Light Collecting Device to Prevent Winterkill in Ice Covered Lakes*

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## Military

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### **United States Air Force Research Laboratory** *Air Force Award*

Amy Zhang 10th grade  
certificate, sling pack, power bank, USB flash memory drive, USB car charger  
Lakewood High School Lakewood  
*AI Guides, Vision-Impaired Act: Safety-Aware Actionable Guidance Via Vision-Language Models*

Vaughn Bankston 9th grade  
certificate, sling pack, power bank, USB flash memory drive, USB car charger  
Mancos High School Mancos  
*Unmanned Aerial Vehicle Iteration IX*

John Finnessy 8th grade  
certificate, sling pack, power bank, USB flash memory drive, USB car charger  
Challenge School Aurora  
*Making a Robotic Hand*

### **United States Navy & Marine Corps** *Navy Science and Engineering Award*

Abigail Lam 8th grade  
certificate, ONR medallion, letter of congratulations  
Flagstaff Academy Charter School Longmont  
*The Human Body in Space*

Calvin Nabors 8th grade  
Quinn Dempse 8th grade  
certificate, ONR medallion, letter of congratulations  
Bayfield Middle School Bayfield  
*Sci-Fi in Reality*

Xander Skul 7th grade  
certificate, ONR medallion, letter of congratulations  
D60 Online School Pueblo  
*Tensegrity Table*

Benjamin Boedeker 7th grade  
certificate, ONR medallion, letter of congratulations  
Fort Morgan Middle School Fort Morgan  
*Hot Shot: An Observational Study of 5th Grade Boy Basketball Shot Percentage Evaluation and Optimization*

Sreyanth Saipavan Alla 11th grade  
certificate, ONR medallion, letter of congratulations  
Rock Canyon High School Castle Pines  
*BactiScan: A Deep Convolutional Neural Network for Tracking Shigella flexneri Infection*

Amy Zhang 10th grade  
certificate, ONR medallion, letter of congratulations  
Lakewood High School Lakewood  
*AI Guides, Vision-Impaired Act: Safety-Aware Actionable Guidance Via Vision-Language Models*

Juakin Sawatzky 10th grade  
certificate, ONR medallion, letter of congratulations  
Liberty School Joes  
*Developing an Economical Method of Extracting REM from Mine Effluent Water*

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## Organizational

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### **Air & Waste Management Association** **Rocky Mountain States Section** *Air & Waste Management Award*

Cameron Kempisty 8th grade  
certificate, \$100  
Eagleview Middle School Colorado Springs  
*Going Nuts Over Biochar: Pistachios vs. PFAS*

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Jainil Parikh 6th grade  
certificate, \$200  
Challenger Middle School Colorado Springs  
*Harnessing Waste Powering Future*

Sihan "Hunter" Liu 10th grade  
certificate, \$100  
Colorado Rocky Mountain School Carbondale  
*Sustainable Nitrate Remediation and Ammonia Production via Electrocatalysis Using a One-Dimensional Ni-BTA Coordination Polymer*

Destiny Cornelius 12th grade  
Ky Harkness 12th grade  
certificate, \$200  
Plainview School Townner  
*Biochar: An Organic Approach to Urban Heat Management*

### American Association of University Women *AAUW CO Award for Women in STEM*

Elsa Ciembronowicz 7th grade  
certificate, \$250  
Vallis Cymbia Academiae Frederick  
Homeschool  
*Original Kitchen Insulin*

Saahithi Kasa 11th grade  
certificate, \$250  
Cherry Creek High School Greenwood Village  
*Up in Smoke: The Effect of Protective Topical Ointment Against Wildfire Particle Penetration*

### American Industrial Hygiene Association Rocky Mountain Section *Excellence in Protection of Occupational Health & Safety Award*

Anirudh Rao 7th grade  
certificate, \$150  
STEM School Highlands Ranch  
*A Novel Approach to Wound Management Using Hydrovoltaic Sensors*

Colter Dennison 9th grade  
certificate, \$150  
Mancos High School Mancos  
*Toxic Tributaries 2: Rivers Effect on Soil Chemistry*

### American Statistical Association Colorado/Wyoming Chapter *David Young Memorial Award*

Bianca Buczkowski 8th grade  
certificate, student membership in the ASA, acknowledgement at chapter spring meeting and on the chapter website; \$200  
Monument Academy Monument  
*Should Solar Panels Track the Sun?*

Julia Gao 10th grade  
certificate, student membership in the ASA, acknowledgement at chapter spring meeting and on the chapter website; \$200  
Fairview High School Boulder  
*Toward Discovery of the Sterile Neutrino: Deep Learning Muon Neutrino Reconstruction at ICARUS*

### American Vacuum Society Rocky Mountain Chapter *Excellence in Physical Sciences & Engineering Award*

Bianca Buczkowski 8th grade  
certificate, \$100, \$100 matching award for adult sponsor  
Monument Academy Monument  
*Should Solar Panels Track the Sun?*

Azucena Perez 7th grade  
certificate, \$200, \$200 matching award for adult sponsor  
Lamar Middle School Lamar  
*Radiation Safety First: The Life Saving Power of Radiation Shielding*

Carson Stone 9th grade  
Chase Pollart 10th grade  
certificate, \$100, \$100 matching award for adult sponsor  
Brush High School Brush  
*Water Tower Power - Storing Solar Energy with an Elevated Pumped Storage Hydropower System*

Maria Sears 12th grade  
certificate, \$200, \$200 matching award for adult sponsor  
Monte Vista High School Monte Vista  
*Lung Distance Relationship: A Remote Monitoring Device That Tracks Pulmonary Function*

### Broadcom Foundation *Broadcom Coding with Commitment Award*

Bode Monahan 8th grade  
certificate, Raspberry Pi Pico Kit, \$250  
Liberty School Joes  
*Frequency Chaos: Coding a Wi-Fi Interrupter for Tactical Use*

### Colorado Biology Teachers Association *CBTA Best Biology Project Award*

Ansley DePue 8th grade  
certificate, \$100  
Wray Jr/Sr High School Wray  
*The Effects of Light Wavelength Treatments Towards the Germination Response and Seedling Growth Rate of Zea mays*

Hannah Deering 7th grade  
certificate, \$150  
Yuma Middle School Yuma  
*The Potential Relationship Between Tibia Length and Speed in Samoyed Dogs Running 100 Yards*

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Teagan Bruchez 10th grade  
 certificate, \$150  
 West Grand High School Kremmling  
*The Effects of the Transfer of Wolves and the Fertility Rate of Grand County Cattle*

Natalie Muro 11th grade  
 certificate, \$200  
 Palmer High School Colorado Springs  
*A Sustainable Cyanobacteria Mitigation Method for Freshwater Ecosystems in the Rocky Mountain Region*

### Colorado BioScience Institute Future of Life Science Award

Vedanth Raju 7th grade  
 certificate, \$25  
 Aurora Quest K-8 School Aurora  
*A Novel Plant-Based Topical Drug "Curcaza+" to Help Treat Diabetic Foot Ulcers/Infections and Help Reduce Antimicrobial Resistance*

Maria Sears 12th grade  
 certificate, feature in the Institute's "Success Stories", \$75  
 Monte Vista High School Monte Vista  
*Lung Distance Relationship: A Remote Monitoring Device That Tracks Pulmonary Function*

### Colorado Chemistry Teachers Association CCTA Chemistry Award

Neha Pesaramelli 11th grade  
 certificate, \$150  
 Peak to Peak Charter School Lafayette  
*Measuring Chemical Kinetics in High School Labs*

### Colorado Environmental Health Association Environmental Health Award

Sierra Winslow 8th grade  
 certificate, \$75  
 Eagleview Middle School Colorado Springs  
*Radon Detector: Where Does Radon Typically Accumulate in Buildings?*

Natalia Woolcock 10th grade  
 certificate, invitation to exhibit at the CEHA Annual Educational Conference (valued at \$400), \$150  
 The Academy of Charter Schools Westminster  
*Reimagine Meat Labeling: Could We Change Buyer Choices and Lower Greenhouse Emissions by Adding Carbon Footprint Data to Consumer Labels?*

### Colorado Foundation for Agriculture Jack Fenwick Award for Agricultural Science

Caprise Priestley 6th grade  
 certificate, \$50  
 Mancos Middle School Mancos  
*Electroculture Gardening and How It Affects Plants*

Elliot Louthan 6th grade  
 certificate, \$50  
 Idalia School Idalia  
*Special Needs Pig Feeder*

Bennett Esterday 10th grade  
 certificate, \$50  
 Animas High School Durango  
*Avant-Garde Agriculture: Indole-3-Acetic Acid and Growth in Tomatoes*

Liam Griffin 9th grade  
 certificate, \$50  
 Sargent High School Monte Vista  
*An Absorbent Advantage: Using Wool Pellets to Conserve Water in Soil*

### Colorado Medical Society CMS Education Foundation Award

Vedanth Raju 7th grade  
 certificate, invitation to exhibit at the Colorado Medical Society Annual Meeting (Sept. 13 in Keystone) and attend the Presidential Inaugural Dinner with a paid overnight stay  
 Aurora Quest K-8 School Aurora  
*A Novel Plant-Based Topical Drug "Curcaza+" to Help Treat Diabetic Foot Ulcers/Infections and Help Reduce Antimicrobial Resistance*

Maria Sears 12th grade  
 certificate, invitation to exhibit at the Colorado Medical Society Annual Meeting (Sept. 13 in Keystone) and attend the Presidential Inaugural Dinner with a paid overnight stay  
 Monte Vista High School Monte Vista  
*Lung Distance Relationship: A Remote Monitoring Device That Tracks Pulmonary Function*

### Colorado Mineral Society Best Earth Science Award

Maci Widger 8th grade  
 certificate, \$50, mineral specimen, book  
 Sargent Middle School Monte Vista  
*Under Pressure*

Augustus Gdanitz 11th grade  
 certificate, \$35, mineral specimen, book  
 Wray Jr/Sr High School Wray  
*The Use of Zeolites in Mitigating Red Algae Blooms*

Colter Dennison 9th grade  
 certificate, \$50, mineral specimen, book  
 Mancos High School Mancos  
*Toxic Tributaries 2: Rivers Effect on Soil Chemistry*

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## Special Awards Press Release

### Colorado Mycological Society

#### *Excellence in Mycological Research Award*

Lola Sondrol 8th grade  
certificate, \$25, CMS membership, certificate, signed copy of  
Vera Evenson's "Rocky Mountain Mushrooms"  
Monte Vista Online Academy Monte Vista  
*Do Endophytes Affect the Growth of Lolium perenne?*

Humza Memon 7th grade  
certificate, \$50, CMS membership, certificate, signed copy of  
Vera Evenson's "Rocky Mountain Mushrooms"  
Crescent View Academy Aurora  
*From Kitchen to Energy: Leveraging Fermentation Enhancers  
for Improved Biogas Production*

Cami Wolkow 11th grade  
certificate, \$100, CMS membership, certificate, signed copy of  
Vera Evenson's "Rocky Mountain Mushrooms"  
Palmer High School Colorado Springs  
*Genetically Enhancing Fungi to Bioremediate Tetracycline*

### Colorado Native Plant Society

#### *Native Plant Award*

Kendyl Osborn 7th grade  
certificate, 1-year membership to CNPS, book on Colorado  
native plants, \$150  
La Junta Junior High School La Junta  
*Monarch Butterfly Pitstop*

Kaycee Clark 9th grade  
certificate, 1-year membership to CNPS, book on Colorado  
native plants, \$150  
Wray Jr/Sr High School Wray  
*Cheater Cheater Rangeland Eater: A Study on Mitigating the  
Spread of Downy Brome Using Pseudomonas Fluorescens D7  
and ACK55*

### Colorado Section of the American Chemical Society

#### *ACS Chemistry Award*

Amelie Andujar 7th grade  
Emely Quijada 7th grade  
Bianeta Ugwo 7th grade  
certificate, \$50  
Brush Middle School Brush  
*How Does UV Light Affect the Protection of Different Brands  
of Sunscreen*

Jocelyn Schoenfeld 6th grade  
certificate, \$50  
Genoa-Hugo School Hugo  
*Skittles Chromatography*

Kassidy Schleppe 8th grade  
certificate, \$50  
St. John the Baptist Catholic School Longmont  
*The Last Light*

Kenley Mitchell 7th grade  
certificate, \$75  
Sargent Middle School Monte Vista  
*Light It Before You Bite It!*

Jocelyn Kramer 8th grade  
certificate, \$125  
Good Shepherd Catholic School Denver  
*To Be or Not To Be Organic*

Violet Sandridge 8th grade  
certificate, \$150  
Summit Charter Middle School Boulder  
*Radiation Resilience: Evaluating Photostability in Natural  
and Synthetic Sunscreens*

Layna Snyder 9th grade  
Caroline Prieto 9th grade  
certificate, \$75  
Brush High School Brush  
*The Lake Nyos Tragedy: What Caused It?*

Arnav Venkatesh 10th grade  
certificate, \$125  
Grandview High School Aurora  
*Enhancing Microbot Functionality Through Single Layered  
Hydrogels*

Sophia Zhang 11th grade  
certificate, \$150  
Fairview High School Boulder  
*Natural Eutectogels As a Novel Material for Green Electronic  
Skin*

### Colorado State University College of Agricultural Sciences

#### *Innovations in the Science of Agriculture Awards*

Hannah Deering 7th grade  
certificate, \$500  
Yuma Middle School Yuma  
*The Potential Relationship Between Tibia Length and Speed in  
Samoyed Dogs Running 100 Yards*

Luciana Dougherty 6th grade  
certificate, \$500  
Sacred Heart of Jesus Catholic School Boulder  
*Can Those Tiny Gels Save Agriculture's Water Crisis?*

Haydan Drullinger 11th grade  
certificate, \$500  
Liberty School Joes  
*AgriVision: Augmented Reality for Precision Farming*

Priya Mayjoy 9th grade  
certificate, \$500  
Lamar High School Lamar  
*Monitoring Apis Mellifera Linnaeus for Winter Survival, Year  
Two*

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## Special Awards Press Release

Janet Ngomba Bajikijay 12th grade  
 Mayssan Salim 12th grade  
 Nayibe Burciaga Buhaya 12th grade  
 certificate, \$500  
 Lotus School for Excellence Aurora  
*The Effect of Nanoparticles on Plant Growth*

### Colorado State University Department of Agricultural Biology Agricultural Biology Award

Elaina Consaul 8th grade  
 certificate, \$100  
 Sargent Middle School Monte Vista  
*Salinity Solution: A Study of How the Salinity in Water Affects  
 Plant Growth*

Lola Sondrol 8th grade  
 certificate, \$100  
 Monte Vista Online Academy Monte Vista  
*Do Endophytes Affect the Growth of Lolium perenne?*

Om Vegesna 10th grade  
 certificate, \$100  
 Fairview High School Boulder  
*Combating Root-Knot (Meloidogyne spp.) and Fusarium  
 oxysporum with Stabilized Allicin and siRNA Constructs*

Janet Ngomba Bajikijay 12th grade  
 Mayssan Salim 12th grade  
 Nayibe Burciaga Buhaya 12th grade  
 certificate, \$100  
 Lotus School for Excellence Aurora  
*The Effect of Nanoparticles on Plant Growth*

### Colorado State University Department of Chemistry Excellence in Chemistry Award

McKayla Red 8th grade  
 certificate, \$75  
 Ignacio Middle School Ignacio  
*DIY Remedies for Getting a Stain Out*

Amelie Andujar 7th grade  
 Emely Quijada 7th grade  
 Bianeta Ugwo 7th grade  
 certificate, \$175  
 Brush Middle School Brush  
*How Does UV Light Affect the Protection of Different Brands  
 of Sunscreen*

Jack Griepentrog 9th grade  
 certificate, \$75  
 SkyView Academy Highlands Ranch  
*Baking the Perfect Chocolate Chip Cookie*

Layna Snyder 9th grade  
 Caroline Prieto 9th grade  
 certificate, \$175  
 Brush High School Brush  
*The Lake Nyos Tragedy: What Caused It?*

### Colorado State University Department of Horticulture & Landscape Architecture

#### *Excellence in Horticulture Award*

Elaina Consaul 8th grade  
 certificate, \$100  
 Sargent Middle School Monte Vista  
*Salinity Solution: A Study of How the Salinity in Water Affects  
 Plant Growth*

Yasaswini Vinjamuri 7th grade  
 certificate, \$100  
 Heritage Heights Academy Centennial  
*Who Shrank the Potatoes?!*

Emilio Ortiz 11th grade  
 certificate, \$100  
 Monte Vista High School Monte Vista  
*Soil Additives Are Spud-Tacular*

Om Vegesna 10th grade  
 certificate, \$100  
 Fairview High School Boulder  
*Combating Root-Knot (Meloidogyne spp.) and Fusarium  
 oxysporum with Stabilized Allicin and siRNA Constructs*

### Colorado State University Natural Heritage Program CNHP Conservation Award

Lauren Erickson 12th grade  
 certificate, pint glass, Wetlands of Colorado guidebook  
 Evergreen High School Evergreen  
*The Effect of Fire Mitigation on Avian Biodiversity as  
 Measured Through Bioacoustics*

### Colorado's Electric Cooperatives The Colorado EnergyWise Award

Connor Stone 7th grade  
 Evelyn Lapp 8th grade  
 certificate, \$75  
 Brush Middle School Brush  
*Insulation Investigation*

Ingram Olson 6th grade  
 certificate, \$175  
 Telluride Intermediate School Telluride  
*A Better Solar Panel: Can Coating Solar Panels Improve  
 Their Efficiency?*

Carson Stone 9th grade  
 Chase Pollart 10th grade  
 certificate, \$75  
 Brush High School Brush  
*Water Tower Power - Storing Solar Energy with an Elevated  
 Pumped Storage Hydropower System*

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## Special Awards Press Release

Zoe Wang 10th grade  
 certificate, \$175  
 Fairview High School Boulder  
*From Bench to Atmosphere: New Materials for the Direct Air Capture (DAC) of CO2 Using Electro-Swing Chemistry*

### Colorado-Wyoming Society of American Foresters

#### *Excellence in Forestry Research Award*

Cameron Kempisty 8th grade  
 certificate, \$200  
 Eagleview Middle School Colorado Springs  
*Going Nuts Over Biochar: Pistachios vs. PFAS*  
 Naomi Kruse 11th grade  
 certificate, \$200  
 Schullandheim Homeschool Colorado Springs  
*Paper for the Planet 2: Kickstarting Microbial Succession Following California Wildfires*

### Gromko Family

#### *Gerald Gromko Memorial Award*

Haydan Drullinger 11th grade  
 certificate, \$250  
 Liberty School Joes  
*AgriVision: Augmented Reality for Precision Farming*

### Institute of Electrical and Electronics Engineering, High Plains Section IEEE Award

Ella Music 8th grade  
 certificate, \$125 Amazon gift card  
 Summit Charter Middle School Boulder  
*A Haptic Guidance System for Visually Impaired Sport Climbers*

Tristan Cao 11th grade  
 certificate, \$175 Amazon gift card  
 Stargate Charter School Thornton  
*Emergent Quantum Inductance in Chiral Orbital Current State*

### Little Shop of Physics

#### *Matthew McCausland Memorial Award*

Laurel Amber Kent 7th grade  
 certificate, science equipment/instruments  
 Eagleview Middle School Colorado Springs  
*Magic Mouse: A Touchless, Thermin-based Mouse to Help People with Hand Limitations*

Maci Widger 8th grade  
 certificate, science equipment/instruments  
 Sargent Middle School Monte Vista  
*Under Pressure*

Michael Caraher 8th grade  
 certificate, science equipment/instruments  
 St. John the Baptist Catholic School Longmont  
*Beware of the Pocket Rocket*

Emily Abdulsalam 8th grade  
 certificate, science equipment/instruments  
 Crescent View Academy Aurora  
*How Does Viscosity of Different Liquids Affect the Speed of a Moving Object?*

Elliot Louthan 6th grade  
 certificate, science equipment/instruments  
 Idalia School Idalia  
*Special Needs Pig Feeder*

Lane Mattive 8th grade  
 certificate, science equipment/instruments  
 Sargent Middle School Monte Vista  
*Can I Get a Lift?*

Mateo Feit 9th grade  
 certificate, science equipment/instruments  
 Fairview High School Boulder  
*The PetProfiler: Machine Learning and Mechanics for a Smart Doggy Door*

Dillon Curtis 10th grade  
 Meah Ring Hall 12th grade  
 Hector Villacana Saucedo 10th grade  
 certificate, science equipment/instruments  
 Brush High School Brush  
*Modeling the Flight Paths of Conical Meteorites*

Tyler Wickham 12th grade  
 certificate, science equipment/instruments  
 Golden High School Golden  
*Breathe Easy: Comfort-Focused Respirators for Wildland Firefighters*

### Lockheed Martin

#### *Lockheed Martin Aerospace Award*

Lane Mattive 8th grade  
 certificate, \$150  
 Sargent Middle School Monte Vista  
*Can I Get a Lift?*

Helen Wan 10th grade  
 certificate, \$350  
 Pine Creek High School Colorado Springs  
*Time-Sensitive Medicine Dissolution in a Microgravity Environment Emulated by Acoustic Levitation*

### Matt Hannifin - CO2/Greenhouse Gas Reduction CO2 & Greenhouse Gas Reduction Award

Westlea Tipsword 9th grade  
 certificate, \$100  
 Homeschool Saguache  
*Effects of Vitamin E Supplements on Horse Health and Performance*

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Marin Hayes certificate, \$100 Boulder Country Day School <i>No Need for Speed</i>	8th grade  Boulder	Maci Widger certificate, \$50 Sargent Middle School <i>Under Pressure</i>	8th grade  Monte Vista
Natalia Woolcock certificate, \$100 The Academy of Charter Schools <i>Reimagine Meat Labeling: Could We Change Buyer Choices and Lower Greenhouse Emissions by Adding Carbon Footprint Data to Consumer Labels?</i>	10th grade  Westminster	Elliot Louthan certificate, \$100 Idalia School <i>Special Needs Pig Feeder</i>	6th grade  Idalia
Saahithi Kasa certificate, \$100 Cherry Creek High School <i>Up in Smoke: The Effect of Protective Topical Ointment Against Wildfire Particle Penetration</i>	11th grade  Greenwood Village	James Little certificate, \$100 Monte Vista High School <i>Shooting for the Stars</i>	11th grade  Monte Vista
Layna Snyder Caroline Prieto certificate, \$100 Brush High School <i>The Lake Nyos Tragedy: What Caused It?</i>	9th grade 9th grade  Brush	Destiny Cornelius Ky Harkness certificate, \$50 Plainview School <i>Biochar: An Organic Approach to Urban Heat Management</i>	12th grade 12th grade  Towner
Gerardo Rodriguez Ramirez certificate, \$50 Boston K-8 School <i>Breaking Down Light: Investigating the Effects That Different Wavelengths of Light Have on Plant Growth and Mitosis</i>	7th grade  Aurora	Jainil Parikh certificate, \$100 Challenger Middle School <i>Harnessing Waste Powering Future</i>	6th grade  Colorado Springs
Cameron Kempisty certificate, \$100 Eagleview Middle School <i>Going Nuts Over Biochar: Pistachios vs. PFAS</i>	8th grade  Colorado Springs	Zoe Wang certificate, \$50 Fairview High School <i>From Bench to Atmosphere: New Materials for the Direct Air Capture (DAC) of CO2 Using Electro-Swing Chemistry</i>	10th grade  Boulder
Hannah Shelton certificate, \$50 Centauri High School <i>Sediment Signatures: Unveiling the Impact of Sedimentary Deposits on Diatoms Through Lake Bottom Sampling</i>	12th grade  La Jara	Naomi Kruse certificate, \$100 Schullandheim Homeschool <i>Paper for the Planet 2: Kickstarting Microbial Succession Following California Wildfires</i>	11th grade  Colorado Springs
Reagan Futrell certificate, \$100 Monte Vista High School <i>Gaining Ground: Effectiveness of Zeedyk Structures on Herbaceous Establishment and Moisture Retention within Waterways</i>	11th grade  Monte Vista	Wensen Fang certificate, \$100 Summit Charter Middle School <i>Blazing Bright: Uncovering the Truth Behind Wildfires in Colorado via Machine Learning</i>	8th grade  Boulder
Ingram Olson certificate, \$100 Telluride Intermediate School <i>A Better Solar Panel: Can Coating Solar Panels Improve Their Efficiency?</i>	6th grade  Telluride	Ayush Vispute certificate, \$100 Rampart High School <i>Protein Flow v2: Biocomputational Analysis of Metabolic Pathways to Discover New Carbon Capturing Bacteria</i>	10th grade  Colorado Springs
Carson Stone Chase Pollart certificate, \$100 Brush High School <i>Water Tower Power - Storing Solar Energy with an Elevated Pumped Storage Hydropower System</i>	9th grade 10th grade  Brush	Julia Muro certificate, \$100 North Middle School <i>Modified Atmosphere Packaging Strategies for Prolonged Organic Strawberry Health</i>	8th grade  Colorado Springs
		Augustus Gdanitz certificate, \$100 Wray Jr/Sr High School <i>The Use of Zeolites in Mitigating Red Algae Blooms</i>	11th grade  Wray

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Alexander Knight  
certificate, \$100  
Corwin International Magnet School  
*Taking Flight: Why Are Winglets Important?*  
7th grade  
Pueblo

Madison Gunnels  
certificate, \$100  
Brush High School  
*It's Not Mike Tyson, But It's Still a Siphon*  
9th grade  
Brush

Caprise Priestley  
certificate, \$50  
Mancos Middle School  
*Electroculture Gardening and How It Affects Plants*  
6th grade  
Mancos

Kyle Shee  
certificate, \$100  
Boulder Country Day School  
*What Fertilized Water Will Make a Plant Grow Better?*  
6th grade  
Boulder

Kaycee Clark  
certificate, \$100  
Wray Jr/Sr High School  
*Cheater Cheater Rangeland Eater: A Study on Mitigating the Spread of Downy Brome Using Pseudomonas Fluorescens D7 and ACK55*  
9th grade  
Wray

### National Security Agency NSA Special Award

Laurel Amber Kent  
certificate, Cyber Bot  
Eagleview Middle School  
*Magic Mouse: A Touchless, Thermin-based Mouse to Help People with Hand Limitations*  
7th grade  
Colorado Springs

Omar Manshad  
certificate, PiDog & Raspberry Pi4 & SD Card  
Crescent View Academy  
*Building a Safe Robotic Arm for Table-Top Interactions*  
8th grade  
Aurora

Oliver Ciembronowicz  
certificate, 3D Printer  
Vallis Cymbia Academiae  
Homeschool  
*Are They Listening To Us?*  
7th grade  
Frederick

Amy Zhang  
certificate, LimeSDR  
Lakewood High School  
*AI Guides, Vision-Impaired Act: Safety-Aware Actionable Guidance Via Vision-Language Models*  
10th grade  
Lakewood

Alexander Zhang  
certificate, PiDog, & Raspberry Pi4 & SDCard  
Fairview High School  
*SchoolFinance: A Novel Machine Learning Framework for Optimized School Funding Allocation*  
12th grade  
Boulder

Tanush Shekhar  
Jack Cerullo  
certificate, Digital Microscope  
Peak to Peak Charter School  
*Revolutionizing CryoEt: Novel Simulation Techniques for ML-Based Tomograph Labeling*  
11th grade  
12th grade  
Lafayette

Mateo Feit  
certificate, 3D Printer  
Fairview High School  
*The PetProfiler: Machine Learning and Mechanics for a Smart Doggy Door*  
9th grade  
Boulder

### Platte River Power Authority PRPA Special Award for Energy Efficiency and Innovation

Connor Stone  
Evelyn Lapp  
certificate, \$200  
Brush Middle School  
*Insulation Investigation*  
7th grade  
8th grade  
Brush

Carson Stone  
Chase Pollart  
certificate, \$300  
Brush High School  
*Water Tower Power - Storing Solar Energy with an Elevated Pumped Storage Hydropower System*  
9th grade  
10th grade  
Brush

### PRPA Special Award for Environmental Responsibility

Jainil Parikh  
certificate, \$200  
Challenger Middle School  
*Harnessing Waste Powering Future*  
6th grade  
Colorado Springs

Zoe Wang  
certificate, \$300  
Fairview High School  
*From Bench to Atmosphere: New Materials for the Direct Air Capture (DAC) of CO2 Using Electro-Swing Chemistry*  
10th grade  
Boulder

### Rocky Mountain Association of Geologists Foundation Excellence in Earth Sciences Award

Ben Zhao  
certificate, \$200  
Summit Charter Middle School  
*Earthquake Asperities Relation to Recurrence*  
8th grade  
Boulder

Lyndee Thomson  
Ryder Pryor  
certificate, \$300  
West Grand Middle School  
*Waters' Ways*  
7th grade  
7th grade  
Kremmling

# 2025 Colorado Science and Engineering Fair

## Special Awards Press Release

Lochlan DaRonco 12th grade  
 certificate, \$200  
 Evergreen High School Evergreen  
*Bear Creek Geological and pH Analysis*

Colter Dennison 9th grade  
 certificate, \$300  
 Mancos High School Mancos  
*Toxic Tributaries 2: Rivers Effect on Soil Chemistry*

### Society for Mining, Metallurgy, and Exploration, Colorado Section

*Award for Excellence in Mineral Science &  
 Engineering*

Paisley Anderson 8th grade  
 plaque, \$200  
 Creede Schools Creede  
*Mineral Mining Monsters: Time Will Tail*

Ava Boblitt 6th grade  
 plaque, \$300  
 Bayfield Middle School Bayfield  
*Neutralizing Acid from Acid Mine Drainage in Silverton,  
 Colorado*

Naomi Kruse 11th grade  
 plaque, \$300  
 Schullandheim Homeschool Colorado Springs  
*Paper for the Planet 2: Kickstarting Microbial Succession  
 Following California Wildfires*

Juakin Sawatzky 10th grade  
 plaque, \$500  
 Liberty School Joes  
*Developing an Economical Method of Extracting REM from  
 Mine Effluent Water*

### Society of Manufacturing Engineers, Colorado Chapter 354

*Andy Keller Memorial Award*

John Finnessy 8th grade  
 certificate, recognition by the local chapter, \$200  
 Challenge School Aurora  
*Making a Robotic Hand*

Mateo Feit 9th grade  
 certificate, recognition by the local chapter, \$100  
 Fairview High School Boulder  
*The PetProfiler: Machine Learning and Mechanics for a  
 Smart Doggy Door*

Maddox King 10th grade  
 certificate, recognition by the local chapter, \$150  
 Yuma High School Yuma  
*Future Development of a Computer Chip: Year 1 - Coding*

### Society of Women Engineers Rocky Mountain Section

*SWE Award*

Laurel Amber Kent 7th grade  
 certificate, \$75  
 Eagleview Middle School Colorado Springs  
*Magic Mouse: A Touchless, Thermin-based Mouse to Help  
 People with Hand Limitations*

Ella Music 8th grade  
 certificate, \$100  
 Summit Charter Middle School Boulder  
*A Haptic Guidance System for Visually Impaired Sport  
 Climbers*

Sophia Zhang 11th grade  
 certificate, \$75  
 Fairview High School Boulder  
*Natural Eutectogels As a Novel Material for Green Electronic  
 Skin*

Siddhi Singh 11th grade  
 certificate, \$100  
 STEM School Highlands Ranch  
*A Low-Cost, Onboard Animal Detection System to Mitigate  
 Wildlife-Vehicle Collisions*

### State of Colorado - Division of Reclamation, Mining & Safety

*DRMS Outstanding Science Exhibit Award*

Paisley Anderson 8th grade  
 certificate, gift bag, \$100  
 Creede Schools Creede  
*Mineral Mining Monsters: Time Will Tail*

Juakin Sawatzky 10th grade  
 same award  
 Liberty School Joes  
*Developing an Economical Method of Extracting REM from  
 Mine Effluent Water*

### The Biophysical Society

*The Biophysics Award*

Izzy Michael 9th grade  
 certificate, \$100  
 Green Mountain High School Lakewood  
*Bone Trauma Analysis*

### The Morrow Family

*Fire Fighter Award*

Tyler Wickham 12th grade  
 certificate, \$100  
 Golden High School Golden  
*Breathe Easy: Comfort-Focused Respirators for Wildland  
 Firefighters*

# 2025 Colorado Science and Engineering Fair

## Special Awards Press Release

### *Morrow Family Dental Award*

Eli Harrison 7th grade  
Jagadish White 7th grade  
certificate,  
Home School Erie  
*The Effect of Pet Toothpaste on the Canine Oral*

Cami Wolkow 11th grade  
certificate,  
Palmer High School Colorado Springs  
*Genetically Enhancing Fungi to Bioremediate Tetracycline*

### **The Sara Volz Family**

#### *Best Contributions to Fundamental Science Award*

Julia Gao 10th grade  
certificate, \$300  
Fairview High School Boulder  
*Toward Discovery of the Sterile Neutrino: Deep Learning  
Muon Neutrino Reconstruction at ICARUS*

Ayush Vispute 10th grade  
certificate, \$300  
Rampart High School Colorado Springs  
*Protein Flow v2: Biocomputational Analysis of Metabolic  
Pathways to Discover New Carbon Capturing Bacteria*

### **The Warnock Family**

#### *Warnock Family Award*

Maria Sears 12th grade  
certificate, \$100  
Monte Vista High School Monte Vista  
*Lung Distance Relationship: A Remote Monitoring Device  
That Tracks Pulmonary Function*

Julia Gao 10th grade  
certificate, \$100  
Fairview High School Boulder  
*Toward Discovery of the Sterile Neutrino: Deep Learning  
Muon Neutrino Reconstruction at ICARUS*

### **The Wilkins Family**

#### *Young Entrepreneur's Award*

Maria Sears 12th grade  
certificate, \$750  
Monte Vista High School Monte Vista  
*Lung Distance Relationship: A Remote Monitoring Device  
That Tracks Pulmonary Function*

### **The Wojtaszek Family**

#### *Paul Wojtaszek Memorial Award*

Ria Rajaseckharan 10th grade  
certificate, \$100  
Fossil Ridge High School Fort Collins  
*Glycopeptidolipids: A New Diagnostic Tool for COPD and  
Cystic Fibrosis Patients Infected with Non-Tuberculous  
Mycobacteria*

### **Thermo Fisher Scientific**

#### *Advancing Equity Through Innovation Award*

Grace Cullen 8th grade  
certificate, \$200  
Yuma Middle School Yuma  
*Bacteria Buster*

Julia Muro 8th grade  
certificate, \$200  
North Middle School Colorado Springs  
*Modified Atmosphere Packaging Strategies for Prolonged  
Organic Strawberry Health*

Sammy Maloney 8th grade  
certificate, \$200  
Bayfield Middle School Bayfield  
*Breaking Barriers: Language Learning and Cultural  
Understanding*

Sierra Winslow 8th grade  
certificate, \$200  
Eagleview Middle School Colorado Springs  
*Radon Detector: Where Does Radon Typically Accumulate in  
Buildings?*

### **Trout Unlimited**

#### *Trout Unlimited River Conservation Award*

Naomi Kruse 11th grade  
certificate, \$75  
Schullandheim Homeschool Colorado Springs  
*Paper for the Planet 2: Kickstarting Microbial Succession  
Following California Wildfires*

Amelie Hunziker 12th grade  
AJ Gruenewald 12th grade  
certificate \$125  
Monarch High School Louisville  
*Reaching New Lights: An Explorative Study on the  
Occurrence of Biofluorescence in Amphibia*

Kayla Melby 6th grade  
certificate, \$200  
Yuma Middle School Yuma  
*Photosynthesis Through Thick and Thin: Development of a  
Light Collecting Device to Prevent Winterkill in Ice Covered  
Lakes*

### **Zonta Club of Boulder County**

#### *Amelia Earhart Award*

Lillian Prime 12th grade  
certificate, \$100  
Palmer High School Colorado Springs  
*Analysis and Comparison of Gravitational Wave Event  
Parameters*

# 2025 Colorado Science and Engineering Fair Special Awards Press Release

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## Scholarships

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### Colorado School of Mines

#### Colorado School of Mines CSEF Scholarships

Jenny Xu 11th grade  
Amanda Zou 11th grade  
\$1,000 CSM scholarship, renewable for up to 3 additional years for use towards an undergraduate degree at the Colorado School of Mines  
Fairview High School Boulder  
*Disrupting PCSK9 and ANGPTL3 Genes with CRISPR for Hypercholesterolemia Treatment*

Roa Lee 11th grade  
\$1,000 CSM scholarship, renewable for up to 3 additional years for use towards an undergraduate degree at the Colorado School of Mines  
Mountain Vista High School Highlands Ranch  
*MMP-Deactivating Therapeutic Contact Lenses for Corneal Melting*

Sophia Zhang 11th grade  
\$1,000 CSM scholarship, renewable for up to 3 additional years for use towards an undergraduate degree at the Colorado School of Mines  
Fairview High School Boulder  
*Natural Eutectogels As a Novel Material for Green Electronic Skin*

Natalie Muro 11th grade  
\$1,000 CSM scholarship, renewable for up to 3 additional years for use towards an undergraduate degree at the Colorado School of Mines  
Palmer High School Colorado Springs  
*A Sustainable Cyanobacteria Mitigation Method for Freshwater Ecosystems in the Rocky Mountain Region*

Tristan Cao 11th grade  
\$1,000 CSM scholarship, renewable for up to 3 additional years for use towards an undergraduate degree at the Colorado School of Mines  
Stargate Charter School Thornton  
*Emergent Quantum Inductance in Chiral Orbital Current State*

Siddhi Singh 11th grade  
\$1,000 CSM scholarship, renewable for up to 3 additional years for use towards an undergraduate degree at the Colorado School of Mines  
STEM School Highlands Ranch  
*A Low-Cost, Onboard Animal Detection System to Mitigate Wildlife-Vehicle Collisions*

### Colorado State University College of Agricultural Sciences

#### Innovations in the Science of Agriculture Scholarship

Teagan Bruchez 10th grade  
certificate, \$1,000 scholarship for the 1st semester of attendance at CSU while enrolled in a College of Ag Sciences major  
West Grand High School Kremmling  
*The Effects of the Transfer of Wolves and the Fertility Rate of Grand County Cattle*

Ali Abostate 12th grade  
certificate, \$1,000 scholarship for the 1st semester of attendance at CSU while enrolled in a College of Ag Sciences major  
Lotus School for Excellence Aurora  
*The Role of Green Roofs in Urban Sustainability*

### Colorado State University, Pueblo

#### Colorado State University Pueblo Scholarship

Mateo Feit 9th grade  
certificate, \$1,000 renewable scholarship to Colorado State University, Pueblo  
Fairview High School Boulder  
*The PetProfiler: Machine Learning and Mechanics for a Smart Doggy Door*

### Matt Hannifin

#### Reduction of CO<sub>2</sub> & Greenhouse Gases Scholarship

Ayush Vispute 10th grade  
certificate, \$3,200 non-renewable scholarship  
Rampart High School Colorado Springs  
*Protein Flow v2: Biocomputational Analysis of Metabolic Pathways to Discover New Carbon Capturing Bacteria*

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## Society

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### American Psychological Association

#### APA Achievement in Research in Psychological Science Award

Sammy Maloney 8th grade  
certificate, APA student membership  
Bayfield Middle School Bayfield  
*Breaking Barriers: Language Learning and Cultural Understanding*

Calvin Johnson 12th grade  
Aarnav Jain 12th grade  
certificate, APA student membership  
Peak to Peak Charter School Lafayette  
*Sympathetic Nervous System Activation Effects on Short-Term Memory in a Virtual Environment*

# 2025 Colorado Science and Engineering Fair

## Special Awards Press Release

### Association for Women Geoscientists

#### *AWG Excellence in the Geosciences Award*

Aylin Melgar Bobadilla 8th grade  
 Nayla Gutierrez 8th grade  
 certificate, honorary AWG membership  
 Wray Jr/Sr High School Wray  
*Helpful Organisms: Using Microorganisms in Eutrophic  
 Bodies of Water*

### Lemelson Foundation

#### *Lemelson Early Inventor Prize*

Solomon Charlton-Jones 7th grade  
 \$100 (response required from winner to process), certificate  
 Flagstaff Academy Charter School Longmont  
*The Poly Cracker 2.0: A Size and Weight Controlled  
 Birdhouse*

### NASA

#### *NASA Earth System Science Award*

Ben Zhao 8th grade  
 certificate  
 Summit Charter Middle School Boulder  
*Earthquake Asperities Relation to Recurrence*

Alex Kugler 12th grade  
 Zoe Kugler 12th grade  
 certificate  
 Monarch High School Louisville  
*Comparison of Aurora Activity with Thermosphere Na and Fe  
 (TiNa and TiFe) Layers at McMurdo Station*

### National Oceanic and Atmospheric Administration

#### *Taking the Pulse of the Planet Award*

Aidan Tipton 8th grade  
 Silas Morrison 8th grade  
 certificate  
 Bayfield Middle School Bayfield  
*Oceanic Waste Removal*

Allan Luo Yu 10th grade  
 certificate  
 Fairview High School Boulder  
*The Effects of Climate Change on Allergens and Human  
 Health*

### Regneron

#### *Regeneron Biomedical Science Award*

Aishwarya Kamineni 10th grade  
 certificate, \$375 (response required from winner to process  
 payment)  
 Grandview High School Aurora  
*Optimization of Non-Invasive Pneumonia Prediction Using  
 Novel Machine Learning Algorithms*

### Ricoh

#### *Ricoh Sustainable Development Award*

Ben Zhao 8th grade  
 certificate  
 Summit Charter Middle School Boulder  
*Earthquake Asperities Relation to Recurrence*

Ali Abostate 12th grade  
 certificate  
 Lotus School for Excellence Aurora  
*The Role of Green Roofs in Urban Sustainability*

### Society for In Vitro Biology

#### *Outstanding Achievement in In Vitro Biology Award*

Zechariah Dilley 11th grade  
 certificate, membership in the Society, recognition in Society's  
 news letter and on website  
 South High School Pueblo  
*Cloning and Testing of Phage Genes*

### Society for Science

#### *Thermo Fisher Junior Innovators Challenge*

Sienna Harden 7th grade  
 Cora Bauer 8th grade  
 certificate, nomination to enter the 2025 Junior Innovators  
 Challenge  
 St. Joseph Catholic School Fort Collins  
*Are Dewormers Needed Here?*

Hannah Deering 7th grade  
 certificate, nomination to enter the 2025 Junior Innovators  
 Challenge  
 Yuma Middle School Yuma  
*The Potential Relationship Between Tibia Length and Speed in  
 Samoyed Dogs Running 100 Yards*

Juliet Huckabay 8th grade  
 certificate, nomination to enter the 2025 Junior Innovators  
 Challenge  
 Skinner Middle School Denver  
*The Impact of Age on Pattern Separation and Completion*

Marin Hayes 8th grade  
 certificate, nomination to enter the 2025 Junior Innovators  
 Challenge  
 Boulder Country Day School Boulder  
*No Need for Speed*

Lola Sondrol 8th grade  
 certificate, nomination to enter the 2025 Junior Innovators  
 Challenge  
 Monte Vista Online Academy Monte Vista  
*Do Endophytes Affect the Growth of Lolium perenne?*

Elaina Consaul 8th grade  
 certificate, nomination to enter the 2025 Junior Innovators  
 Challenge  
 Sargent Middle School Monte Vista  
*Salinity Solution: A Study of How the Salinity in Water Affects  
 Plant Growth*

# 2025 Colorado Science and Engineering Fair

## Special Awards Press Release

Mateo Guerrero certificate, nomination to enter the 2025 Junior Innovators Challenge Summit Charter Middle School <i>Fruit Flies Attraction to Different Doughs to Conclude Health Inferences</i>	8th grade  Boulder	Ella Music certificate, nomination to enter the 2025 Junior Innovators Challenge Summit Charter Middle School <i>A Haptic Guidance System for Visually Impaired Sport Climbers</i>	8th grade  Boulder
Vedanth Raju certificate, nomination to enter the 2025 Junior Innovators Challenge Aurora Quest K-8 School <i>A Novel Plant-Based Topical Drug "Curcaza+" to Help Treat Diabetic Foot Ulcers/Infections and Help Reduce Antimicrobial Resistance</i>	7th grade  Aurora	Paisley Anderson certificate, nomination to enter the 2025 Junior Innovators Challenge Creede Schools <i>Mineral Mining Monsters: Time Will Tail</i>	8th grade  Creede
Violet Sandridge certificate, nomination to enter the 2025 Junior Innovators Challenge Summit Charter Middle School <i>Radiation Resilience: Evaluating Photostability in Natural and Synthetic Sunscreens</i>	8th grade  Boulder	Lyndee Thomson Ryder Pryor certificate, nomination to enter the 2025 Junior Innovators Challenge West Grand Middle School <i>Waters' Ways</i>	7th grade 7th grade  Kremmling
Kenley Mitchell certificate, nomination to enter the 2025 Junior Innovators Challenge Sargent Middle School <i>Light It Before You Bite It!</i>	7th grade  Monte Vista	Wensen Fang certificate, nomination to enter the 2025 Junior Innovators Challenge Summit Charter Middle School <i>Blazing Bright: Uncovering the Truth Behind Wildfires in Colorado via Machine Learning</i>	8th grade  Boulder
Cameron Kempisty certificate, nomination to enter the 2025 Junior Innovators Challenge Eagleview Middle School <i>Going Nuts Over Biochar: Pistachios vs. PFAS</i>	8th grade  Colorado Springs	Bode Monahan certificate, nomination to enter the 2025 Junior Innovators Challenge Liberty School <i>Frequency Chaos: Coding a Wi-Fi Interrupter for Tactical Use</i>	8th grade  Joes
Kendyl Osborn certificate, nomination to enter the 2025 Junior Innovators Challenge La Junta Junior High School <i>Monarch Butterfly Pitstop</i>	7th grade  La Junta	Julia Muro certificate, nomination to enter the 2025 Junior Innovators Challenge North Middle School <i>Modified Atmosphere Packaging Strategies for Prolonged Organic Strawberry Health</i>	8th grade  Colorado Springs
Ingram Olson certificate, nomination to enter the 2025 Junior Innovators Challenge Telluride Intermediate School <i>A Better Solar Panel: Can Coating Solar Panels Improve Their Efficiency?</i>	6th grade  Telluride	Paisley Wiersma certificate, nomination to enter the 2025 Junior Innovators Challenge Genoa-Hugo School <i>What's in That Water?</i>	8th grade  Hugo
Bianca Buczkowski certificate, nomination to enter the 2025 Junior Innovators Challenge Monument Academy <i>Should Solar Panels Track the Sun?</i>	8th grade  Monument	Lane Mattive certificate, nomination to enter the 2025 Junior Innovators Challenge Sargent Middle School <i>Can I Get a Lift?</i>	8th grade  Monte Vista
Omar Manshad certificate, nomination to enter the 2025 Junior Innovators Challenge Crescent View Academy <i>Building a Safe Robotic Arm for Table-Top Interactions</i>	8th grade  Aurora	Vivian Bozek certificate, nomination to enter the 2025 Junior Innovators Challenge St. Joseph Catholic School <i>Light It Up and Launch It</i>	7th grade  Fort Collins

# 2025 Colorado Science and Engineering Fair Special Awards Press Release

## United States Metric Association

*Outstanding Achievement in the Use of the  
International System Award*

Ben Zhao 8th grade  
certificate, membership in the US Metric Association  
Summit Charter Middle School Boulder  
*Earthquake Asperities Relation to Recurrence*

## Yale Science & Engineering Association

*Outstanding Achievement in Science & Engineering  
Award*

Haydan Drullinger 11th grade  
certificate, E-book (response required from winner to be  
processed)  
Liberty School Joes  
*AgriVision: Augmented Reality for Precision Farming*

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## Teacher

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## Colorado Association of Science Teachers

*CAST Teacher Award*

Bryan Eubank  
certificate, \$150, one year free membership to CAST  
Creede Schools Creede

Brady Archer  
certificate, \$150, one year free membership to CAST  
Mancos Middle School Mancos

## Colorado Science & Engineering Fair

*Doug Steward Memorial Teacher Award*

Brady Archer  
certificate, \$350  
Mancos Middle School Mancos

Amy Melby  
certificate, \$350  
Yuma High School Yuma

James Osborn  
certificate, \$350  
Las Animas High School Las Animas

Kristi Mathiesen  
certificate, \$350  
Monte Vista Middle School Monte Vista

## Lockheed Martin

*CSEF Teacher of the Year*

Brady Archer  
certificate, \$3,000 grant for use at the school for student  
research  
Mancos Middle School Mancos