

New Mexico Science and Engineering Fair

Junior Animal Science

Third Place

Zoe Bent	NMSEF-JR-A	Picky Picky Birds	LOS ALAMOS MIDDLE
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Second Place

Matthew Lovato	NMSEF-JR-A	Eggs-amine the Yolks	PINON ELEMENTARY
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First Place

Gianna Nilvo	NMSEF-JR-A	The Digestion of Cat Food - Digestive Enzymes or Not	School Of Dreams Academy
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New Mexico Science and Engineering Fair

Junior Behavioral and Social Science

Third Place

Lucas Robbins	NMSEF-JR-B	Colorblind in the Classroom	La Mariposa Montessori
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Second Place

Andres Lucero	NMSEF-JR-B	Investigation of the Kiki-Bouba Effect	Albuquerque Institute of Math & Science
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First Place

Sofia Chavez	NMSEF-JR-B	The Rubber Hand Illusion and Neuroplasticity	Jefferson Middle School
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New Mexico Science and Engineering Fair

Junior Biology

Honorable Mention

Lane Burkeen	NMSEF-JR-B	Counting Particulate Matter	CARLSBAD SIXTH GRADE ACADEMY
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Third Place

Conlan Wilds-Rivera	NMSEF-JR-B	Evolving Euglenas	LOS ALAMOS MIDDLE
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Second Place

Bria Cohen	NMSEF-JR-B	Does Dentifrice Disinfect?	HERMOSA MIDDLE SCHOOL
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First Place

Annie Nattakom	NMSEF-JR-B	Does Invertase Convertase?	Las Cruces Catholic School
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New Mexico Science and Engineering Fair

Junior Biomedical and Health Sciences

Honorable Mention

Lyric Thomas	NMSEF-JR-B	What am I drinking?	MILAN ELEMENTARY
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Third Place

Isabella Griego	NMSEF-JR-B	Can a Homemade Motorized and Adaptive Tricycle Help Disabled Children Gain Muscle Memory and the Skill of Pedaling?	Albuquerque Institute of Math & Science
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Second Place

Tristen Pool	NMSEF-JR-B	Diabetes In New Mexico	GRADY MIDDLE SCHOOL
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First Place

Trey Jones	NMSEF-JR-B	Predictive Correlation Between the Quantity of Imaging Studies and the Presence of a Fibromyalgia Diagnosis	HERMOSA MIDDLE SCHOOL
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New Mexico Science and Engineering Fair

Junior Chemistry

Honorable Mention

Isaac Huber	NMSEF-JR-C	Developing a Safe and Efficient Water Fluoridation Device	Eisenhower Middle School
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Jeremiah Jilek	NMSEF-JR-C	Deluded Discounts	St. Therese Catholic School
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Mark Stotzer	NMSEF-JR-C	Which Charcoal Performs the Best?	Holy Ghost Catholic School
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Third Place

Rebeca Rocha	NMSEF-JR-C	How Does Temperature Affect the Rates of Enzyme-Catalyzed Reactions?	LOS ALAMOS MIDDLE
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Second Place

Henry Pontzer	NMSEF-JR-C	Comparing Properties of Homemade Bio- and Petro-plastics	Jefferson Middle School
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First Place

Ksenia Sevostianov	NMSEF-JR-C	Albumin for drug delivery: the good, the bad, or the ugly?	SIERRA MIDDLE
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New Mexico Science and Engineering Fair

Junior Computer Science

Honorable Mention

Ohafi Faruk	NMSEF-JR-C	The Scorch Trials	Albuquerque Institute of Math & Science
Lilly Gallagher	NMSEF-JR-C	Mustangs of America	MELROSE JUNIOR
Quinton Geller	NMSEF-JR-C	Boosting Wi-Fi with a Parabolic Reflector	LOS ALAMOS MIDDLE
Lily Macfarlane	NMSEF-JR-C	Mustangs of America	MELROSE JUNIOR

Third Place

Noah Juarez	NMSEF-JR-C	Encoding and Decoding Photographs into DNA	Albuquerque Institute of Math & Science
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Second Place

Angel Enjady	NMSEF-JR-C	Apache Language App	Mescalero Apache School
Maekquin K. Fossum	NMSEF-JR-C	Apache Language App	Mescalero Apache School

First Place

Alexander Livescu	NMSEF-JR-C	Adventures in Quantum Computing: Breaking the Unbreakable	LOS ALAMOS MIDDLE
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New Mexico Science and Engineering Fair

Junior Earth Science

Third Place

Brandi Bassett	NMSEF-JR-E	How Porous?	LOS ALAMITOS MIDDLE
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Second Place

Veronica Parra	NMSEF-JR-E	What is the Radius of the Earth's Core?	LOS ALAMOS MIDDLE
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First Place

Yunseo Kim	NMSEF-JR-E	Global Warming and Your Health	LOS ALAMOS MIDDLE
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New Mexico Science and Engineering Fair

Junior Energy and Transportation

Honorable Mention

Julie Lopez	NMSEF-JR-E	Death of An Orange	CARLSBAD INTERMEDIATE SCHOOL
Loretta Montoya	NMSEF-JR-E	Going with the Wind	ROY HIGH
Sophia Wrobel	NMSEF-JR-E	Quacking the Duck Curve	Albuquerque Academy

Third Place

Jacob Arviso	NMSEF-JR-E	Feel the Burn	MESA VIEW MIDDLE SCHOOL
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Second Place

Nathan Best	NMSEF-JR-E	Staying Cool with Swamp Coolers	Jefferson Middle School
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First Place

Claire McDaniel	NMSEF-JR-E	Can It Be a Solar Panel? Phase II	TIBBETTS MIDDLE SCHOOL
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New Mexico Science and Engineering Fair

Junior Engineering

Honorable Mention

Madolynn Kiddie	NMSEF-JR-E	Magnetic Linear Accelerator	KIRTLAND ELEMENTARY
Massimo Lapina	NMSEF-JR-E	Dog Feeder	Jefferson Middle School

Third Place

Hayden Greywolf	NMSEF-JR-E	Cooking Food or Cooking You?	TAOS MUNICIPAL CHARTER
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Second Place

Alejandro Martinez	NMSEF-JR-E	We Can Read	TAOS MUNICIPAL CHARTER
Augustin Martinez	NMSEF-JR-E	We Can Read	TAOS MUNICIPAL CHARTER

First Place

Elena Valdez	NMSEF-JR-E	Which Wood has the Highest Bending Strength?	St. Mary's Catholic School
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New Mexico Science and Engineering Fair

Junior Environmental Sciences

Honorable Mention

Shelbie Martinez	NMSEF-JR-E	Would You Rather? Well vs. Tap (table space is needed)	LOS ALAMITOS MIDDLE
Larry Meador	NMSEF-JR-E	Cleaning up oil spills	LOS ALAMITOS MIDDLE
Nicolai Morford-Oberst	NMSEF-JR-E	What is the Density of Microplastics in the Rio Grande?	Jefferson Middle School

Third Place

Hunter Scott	NMSEF-JR-E	Mother Natures Toxic Cleanup	ROY HIGH
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Second Place

Ryan Frick	NMSEF-JR-E	Storm Surge, Natural Barriers to Natural Disasters	HEIGHTS MIDDLE SCHOOL
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First Place

Gabriella Petersen	NMSEF-JR-E	A Solution to the Plastic Crisis	HEIGHTS MIDDLE SCHOOL
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New Mexico Science and Engineering Fair

Junior Mathematical Sciences

Honorable Mention

Jadyn Flora	NMSEF-JR-M	Semi-Spidrons	CARLSBAD INTERMEDIATE SCHOOL
Chloe Rychener	NMSEF-JR-M	The Geometry of Making a Goal	St. Teresa of Avila Catholic School

Third Place

Julian Singell	NMSEF-JR-M	Are New Hire Capabilities Accurately Evaluated During the Hiring Process?	LOS ALAMOS MIDDLE
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Second Place

Jason Holmes	NMSEF-JR-M	High Roller	TIBBETTS MIDDLE SCHOOL
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First Place

Sonja Ebey	NMSEF-JR-M	Nonidentical Triplets	LOS ALAMOS MIDDLE
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New Mexico Science and Engineering Fair

Junior Physics and Astronomy

Honorable Mention

Andres Padilla	NMSEF-JR-P	Does the Temperature Affect the Elasticity of the Rubber Band?	St. Mary's Catholic School
Phoenix Wells	NMSEF-JR-P	CARGO BEEP BEEP: Testing Cargo Safety When Accelerating	Immanuel Lutheran School

Third Place

Andrew Moellenbrock	NMSEF-JR-P	Roller Coaster Marbles: Can They Loop-the-Loop?	R. SARRACINO MIDDLE
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Second Place

Michael Bane	NMSEF-JR-P	Aerofoil Efficiency	LOS ALAMOS MIDDLE
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First Place

Katie Crooker	NMSEF-JR-P	The Hot Chocolate Effect (how bubbles affect the acoustics of water)	LOS ALAMOS MIDDLE
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New Mexico Science and Engineering Fair

Junior Plant Sciences

Honorable Mention

Brayden Allen	NMSEF-JR-P	Sprouting Seeds with Raspberry Pi	PINON ELEMENTARY
Landon Behrens	NMSEF-JR-P	Lemons vs. Limes Bumpy vs. Smooth	TURQUOISE TRAIL CHARTER SCHOOL
Zoe Hausner	NMSEF-JR-P	A Soy Simple Soilution	Jefferson Middle School
Claire Johnston	NMSEF-JR-P	Lemons vs. Limes Bumpy vs. Smooth	TURQUOISE TRAIL CHARTER SCHOOL
Clementine Johnston	NMSEF-JR-P	Lemons vs. Limes Bumpy vs. Smooth	TURQUOISE TRAIL CHARTER SCHOOL

Third Place

Maddie Sussman	NMSEF-JR-P	The Reversive Effects of Free Radicals on Antioxidants in Plants	Jefferson Middle School
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Second Place

James Clark	NMSEF-JR-P	What is the Best Type of Fertilizer?	Alice King Community School
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First Place

Santi Webb	NMSEF-JR-P	Does Wifi Affect Plant Growth?	Jefferson Middle School
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New Mexico Science and Engineering Fair

Senior Animal Sciences

Honorable Mention

Marisa Armijo	NMSEF-AS-0	Varying Deer and Elk Population Over the Period of Two Years	W LAS VEGAS HIGH
Faith Lovato	NMSEF-AS-2	How the Differences in pH Levels of Salt Water Affects the Growth Rates of a Crustacean	Rio Rancho High School
Akira Martinez- Crook	NMSEF-AS-2	How the Differences in pH Levels of Salt Water Affects the Growth Rates of a Crustacean	Rio Rancho High School

Third Place

Mikayla Ranspot	NMSEF-AS-2	Isotopic Analysis of Porcupine Diets	Amy Biehl High School
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First Place

Karin Ebey	NMSEF-AS-0	Modeling the Effects of Invasive Species on Crocodilian Populations	LOS ALAMOS HIGH
Louie Martinez	NMSEF-AS-1	Nematode <i>Caenorhabditis elegans</i> : Population Growth Response to Various Sugar Solutions	GRANTS HIGH

New Mexico Science and Engineering Fair

Senior Behavioral and Social Sciences

Honorable Mention

Hunter Murray	NMSEF-BE-2	The Effects of Virtual Reality on the Human Brain	The Ask Academy
Isaiah Padilla	NMSEF-BE-2	The Effects of Virtual Reality on the Human Brain	The Ask Academy

Third Place

Marcus Froeschle	NMSEF-BE-0	Ultrasonic Disruption: Impact of UltraSonic Frequencies on <i>C. elegans</i>	TAOS ACADEMY
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Second Place

Atiya Joe	NMSEF-BE-1	Xeroderma Pigmentosum in the Navajo Nation	SAN JUAN COLLEGE HIGH SCHOOL
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First Place

Nilesh Mukundan	NMSEF-BE-0	There's an app for that	LOS ALAMOS HIGH
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New Mexico Science and Engineering Fair

Senior Biology

Honorable Mention

Natalie Rychener	NMSEF-BIO-	Microbial Contamination of Store-Bought Vegetables	GRANTS HIGH
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Third Place

Sydney Anderson	NMSEF-BIO-	Comparing Antibiotic Properties in Native American Traditional Methods and Modern Antibiotics	SAN JUAN COLLEGE HIGH SCHOOL
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Second Place

Charles Strauss	NMSEF-BIO-	Protein Function Inference via Artificial Intelligence	LOS ALAMOS HIGH
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First Place

George Santarpia	NMSEF-BIO-	A Method for Water Purification Using Bacteriophage	Albuquerque Institute of Math & Science
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New Mexico Science and Engineering Fair

Senior Biomedical and Health Sciences

Honorable Mention

Jimena Ballesteros	NMSEF-BMH	Amyloid Vector: Plant Based Reduction of Amyloid Plaque Formation to Reduce Amyloidosis	TAOS ACADEMY
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Ben Brunt	NMSEF-BMH	Controlling a Viral Outbreak	Amy Biehl High School
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Britney Hsu	NMSEF-BMH	Amyloid Vector: Plant Based Reduction of Amyloid Plaque Formation to Reduce Amyloidosis	TAOS ACADEMY
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Mark Perini	NMSEF-BMH	Refractive Retracted	CARLSBAD HIGH
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Third Place

Sydney Gilbert	NMSEF-BMH	Cellular Perception: Analyzing and Translating the Impact of Cell Phone Radiation	PIEDRA VISTA HIGH
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Second Place

Naomi Armstead	NMSEF-BMH	Escape the Dangers of Vape	V. Sue Cleveland High School
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Lillian Elam	NMSEF-BMH	Escape the Dangers of Vape	V. Sue Cleveland High School
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First Place

Russell Ludwigsen	NMSEF-BMH	Increasing Metabolic Substrates Improves Spreading Depolarization Recovery in a Brain Slice Model of Stroke: An Innovative Therapy for Reducing Brain Injury After Stroke	Early College Academy
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New Mexico Science and Engineering Fair

Senior Chemistry

Honorable Mention

Tristan Oper	NMSEF-CH-2	What Factors of the Color of Fabric Affect UV Penetration?	Albuquerque Institute of Math & Science
Jacob Sandusky	NMSEF-CH-2	The Sweet Life: Angiogenic Glucoidal Polymer	The Ask Academy
Michael Valencia	NMSEF-CH-1	differentiation in milk proteins	GRANTS HIGH

Third Place

Victoria Garden	NMSEF-CH-1	Enzymatic Digestion of Gluten	GRANTS HIGH
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Second Place

Paulina Naydenkov	NMSEF-CH-2	Comparing Heat Production Between Corn Oil, Beef Lard and Plastic Based Diesel	Albuquerque Institute of Math & Science
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First Place

Lane Clavel CESE	NMSEF-CH-1	Pump Up the Protein!	ROY HIGH
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New Mexico Science and Engineering Fair

Senior Computer Science

Honorable Mention

Kidus Afework	NMSEF-CS-2	Developing a Breast Cancer Classification Program	Albuquerque Institute of Math & Science
Devin Munson	NMSEF-CS-1	No Child Left Behind Part 2	GRANTS HIGH
Cassius Saiz	NMSEF-CS-2	Developing a Breast Cancer Classification Program	Albuquerque Institute of Math & Science

Third Place

Joaquin Madrid Larranag,	NMSEF-CS-2	Creating a More Efficient Stochastic Computer	Albuquerque High School
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Second Place

Christie Djidjev	NMSEF-CS-2	Data Based Approach to Estimating Ice-Shelf Melt Rates	LOS ALAMOS HIGH
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First Place

Elijah Pelofske	NMSEF-CS-2	Using QAOA to Solve NP-Hard Problems on NISQ Computers	LOS ALAMOS HIGH
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New Mexico Science and Engineering Fair

Senior Earth Science

Honorable Mention

Faris Wald	NMSEF-EA-1	Van Allen's Key; Unlocking the Secret of Yearly Worldwide Tropical Cyclone Activity	SANTA FE HIGH
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Third Place

Jozee Zuniga	NMSEF-EA-0	What the Frack	JEFFERSON MONTESSORI
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Second Place

Ryan Helmer	NMSEF-EA-0	Using Calcium Chloride to Source Drinking Water in Arid Climates: H ₂ O Absorption and CaCl ₂ Regeneration Rates in Relation to Desiccant Surface Area	JEFFERSON MONTESSORI
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First Place

Robert Strauss	NMSEF-EA-0	Analyzing the Palu Tsunami Through Simulation	LOS ALAMOS HIGH
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New Mexico Science and Engineering Fair

Senior Energy and Transportation

Honorable Mention

Kiera Charley	NMSEF-ET-0	Parabolic Solar Water Heater	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
Brendan Johnston	NMSEF-ET-0	Whoosh Bottle Rocket Car	JEFFERSON MONTESSORI
David Westphal	NMSEF-ET-2	Creating a Magnetic Suspension Train	Albuquerque Institute of Math & Science

Third Place

McKenna Collins	NMSEF-ET-2	Increasing Voltage and Ampere in the Aluminum-Ion Battery Through Cell Design	Albuquerque Institute of Math & Science
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Second Place

Gabriel Gurule	NMSEF-ET-2	Vertical Axis Wind Turbine Blades with Solar Panels to Generate Electricity	Albuquerque Institute of Math & Science
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First Place

Sabastian Benavidez	NMSEF-ET-2	Thermal Electric Generator on a Vehicle Prototype 2 vs. Prototype 3	Albuquerque Institute of Math & Science
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New Mexico Science and Engineering Fair

Senior Engineering

Third Place

Marc Mirabal	NMSEF-ENG	Project Simon: Development of an Advanced Telerobotic System	GRANTS HIGH
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Second Place

Robyn Evans	NMSEF-ENG	Autonomous Water Leak Detection Robot for Mitigating Severity of Building Damage	SAN JON HIGH
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First Place

Milidu Jayaweera	NMSEF-ENG	A Game of Jamming: A Multi-Agent Game Theoretic Learning Based Cognitive Communication System to Combat an AI Jammer	La Cueva High School
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New Mexico Science and Engineering Fair

Senior Environmental Sciences

Honorable Mention

Carter Brezina	NMSEF-EV-1	Lumbricus Microplasticus: Impact of microplastics on the metabolism and mortality of earthworms	TAOS ACADEMY
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Keona Hosteen	NMSEF-EV-0	Toxic Gases from Wood Fires in a Traditional Navajo Hogan	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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Third Place

Garyk Brixi	NMSEF-EV-0	A Novel Computational Tool to Inform Cost-Effective Nutrition Interventions in Sub-Saharan Africa	LOS ALAMOS HIGH
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Lillian Petersen	NMSEF-EV-0	A Novel Computational Tool to Inform Cost-Effective Nutrition Interventions in Sub-Saharan Africa	LOS ALAMOS HIGH
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Second Place

Riley Clavel	NMSEF-EV-1	Fire on the Mountain, Ash in the Stream!	ROY HIGH
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Koen Overberger	NMSEF-EV-1	Fire on the Mountain, Ash in the Stream!	ROY HIGH
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First Place

McKayla Gilbert	NMSEF-EV-1	Metals and Metalloids in Corn (Naada 'a') Detected with the Inductively Coupled-Plasma Mass Spectrometer	FARMINGTON HIGH
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New Mexico Science and Engineering Fair

Senior Mathematical Sciences

First Place

Xander Jones	NMSEF-MA-0	Contradictions in the Banach-Tarski Paradox within Euclidean Space	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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New Mexico Science and Engineering Fair

Senior Physics and Astronomy

Honorable Mention

Logan Antiporda	NMSEF-PH-0	Short Term Influence Patterns on NEAs	CARLSBAD HIGH
Miauxochitl Haskie	NMSEF-PH-0	Clay Dyed Wool for Natural Sun Blocking Fabric	Navajo Preparatory School
Bryce Shoemaker	NMSEF-PH-2	Cloud Chamber: Can Image Processing Make it Easier to Identify Tracks in a Cloud Chamber?	Albuquerque Institute of Math & Science

Third Place

Emma Foresi	NMSEF-PH-2	Investigating the Disruption of Time of Flight Sensors	Albuquerque Institute of Math & Science
Zoe Hughes	NMSEF-PH-2	Investigating the Disruption of Time of Flight Sensors	Albuquerque Institute of Math & Science

Second Place

Christopher Salazar	NMSEF-PH-1	TurboArcjet	GRANTS HIGH
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First Place

Phillip Ionkov	NMSEF-PH-0	Experimental Validation of Quantum Entanglement Using Affordable Apparatus	LOS ALAMOS HIGH
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New Mexico Science and Engineering Fair

Senior Plant Sciences

Honorable Mention

Yuttichai Sommala	NMSEF-PS-2	The Importance of Sterilization of Pruners	Rio Rancho High School
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Third Place

Maggie Gibson	NMSEF-PS-2	Hydroponics	ACADEMY FOR TECH & CLASS
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Second Place

Aidan Myerscough	NMSEF-PS-2	The Effect of Acidic and Basic Soils on Venus Fly Traps	Rio Rancho High School
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Caleb Weir	NMSEF-PS-2	The Effect of Acidic and Basic Soils on Venus Fly Traps	Rio Rancho High School
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First Place

Logan Reano	NMSEF-PS-1	Navajo Herbalism in Contemporary Western Medicine	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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