

STEM-H CENTER

PROMOTING SCIENCE, TECHNOLOGY, ENGINEERING, MATH & HEALTH EDUCATION



ANNUAL REPORT 2023-2024



HEALTH SCIENCES OFFICE FOR
DIVERSITY, EQUITY & INCLUSION

OFFICE OF THE VICE PRESIDENT
FOR RESEARCH



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Mission

The UNM STEM-H Center **advances STEM-H teaching and learning** through outreach, research, and education programs, services, & resources.

Our mission is accomplished by, but not limited to...

- Administering the **highest quality STEM-H focused academic competitions** for 4th-12th grade students
- Developing, facilitating, and/or coordinating **innovative STEM-H Educator Professional Development** opportunities
- Developing, facilitating, and/or coordinating **STEM-H focused student learning opportunities** (workshops, etc.)
- Developing **strategic STEM-H education focused partnerships and collaborations** among UNM faculty/staff and within the community (public-private) to increase and sustain engagement as well as create opportunities to increase student interest in STEM-H careers
- Engaging in **STEM-H education focused policy research and advocacy**

Vision

We are a **recognized leader** in the STEM-H teaching & learning community in New Mexico and beyond.

- We serve as a key player in the **coordination** of University of New Mexico STEM-H external outreach activities in order to support the University as well as the community in its efforts to collectively reach key system-wide STEM-H education goals including significantly increasing the recruitment, retention, and graduation of STEM-H majors.
- We provide a **comprehensive center** for STEM-H education resources, outreach programs, and support services.
- We are a **hub** for dissemination of information regarding STEM-H teaching and learning best practices and innovation.
- We facilitate the **cultivation** and **support** of strategic STEM-H education focused **collaborations & partnerships**.

Team Values

We operate with a sense of **PURPOSE** and the desire to leave a **LEGACY** in the field of STEM-H education.

- We operate, at all times, with **INTEGRITY** and **COURTESY**.
- We conduct our business in the spirit of **COOPERATION**.
- We are open to **CHANGE**, encourage **CREATIVITY**, and strive for **INNOVATION**.
- We are **ACCOUNTABLE** for our actions and are **COMMITTED** to the mission of the organization.
- We are **DEPENDABLE** and **COMPETENT**. Our team members, as well as our constituents, know we will deliver what we promise.
- We value **WISDOM** gathered through experience, seek to instill **PASSION** in our work, and act with **COURAGE** as we strive to fulfill our mission and work toward our vision daily.

FROM THE DIRECTOR

Karen Kinsman, MS, PMP, Director/Sr. Program Manager



Photo Taken by GoShiggyGo 2024

As many of you know, this year marks my 23rd as the Director of the UNM STEM-H Center. What that also means is I am a lot older than I was when I started this journey which is simply mind-boggling! Earlier in 2024, I was diagnosed with a form of Dysautonomia (POTS) along with a couple other things that go hand in hand with POTS and it's gotten progressively harder to keep up the pace and volume of work I have always expected of myself. It is for those reasons I have made the very, very difficult and heart-wrenching decision to retire from UNM on July 1, 2025.

We have been working on a leadership transition plan and are working to post the position by early 2025. We hope to identify a new Director in the spring with an eye toward an early March 2025 start date. It's my plan, if possible, to return in a very limited part-time capacity for a year or two to support a smooth transition and wrap up a few special projects we haven't had the bandwidth to tackle.

I didn't start this job thinking it would become my passion...or my legacy, but it somehow has become both...and more! Our team means the world to me...to have teammates who all seamlessly contribute to the success of the STEM-H Center without needing someone looking over their shoulders is amazing and speaks to the trust we have built over a lot of years together. All of our students, teachers, community partners, sponsors, volunteers, vendors, advisors, and colleagues mean so much to me. Many people have heard me say that I consider our students and alumni like "my own kids". I am just as proud of our current students and all those who came before as I am of my own, now full grown adult son who was just shy of 4 years old when I was hired in 2002! I have had the great pleasure of watching our students grow up...some of them participating in one or more of our programs for 5, 6, or even 7 years.

I now get to see a lot of our alums getting married and starting their own families. I have watched alumni forging their career journeys and choosing to make a difference in the world around them - to be the ones on the front lines of solving the seemingly intractable problems in the world. More and more of our Research Challenge and ISEF alumni are returning to judge and even be judge chairs here as well as for other STEM competitions in New Mexico and beyond thereby making the choice to give back to something that made a positive impact on them!! The same goes for Science Olympiad and SW JSHS. It always gives me immense hope for the future!

We are marking the end of this nearly 23-year era and ushering in the next chapter of the UNM STEM-H Center's history which, I have every confidence, will be amazing, bigger, and better than I can even imagine! I look forward to celebrating with everyone! No matter who takes the helm of the STEM-H Center, this team will continue to be a force to be reckoned with and I guarantee you will see great things that will support and encourage both our young STEM researchers and our teachers to embrace the challenge of research & engineering design in even more ways than we do now.

Thank you to EVERYONE who has had a hand in the work of the STEM-H Center. This has not, nor will it ever be a one- or two- or three-person operation. It takes a village and then some! There are people who were volunteering here long before I came on the scene and many, many of them chose to stick around and supported our team even when they didn't know who the heck I was or what I was going to do with the programs about which they were already so committed and passionate.

There are no words to adequately describe my gratitude nor any that will ever truly describe the honor it has been to be at the helm of this super cool ship. But every good ship's Captain knows when it's time for a change of command! I wish you all the very best and hope that when our paths cross again, we will take a moment to share some of the amazing memories made here at the UNM STEM-H Center.

OUTREACH

RESEARCH CHALLENGE

The **Central NM STEM Research Challenge** has served students, teachers, and families since 1959. Our alumni include countless individuals who found their way into STEM careers – including a retired NASA Shuttle Astronaut, prestigious researchers, physicians, educators, and many who left NM to pursue their post-secondary education then came home to serve their home communities at Sandia National Labs, Los Alamos National Labs, UNM, and countless other businesses in our community. Several of our alumni return every year as judges to be part of the experience that meant so much to them as pre-college students and a handful are also part of our judging leadership team.

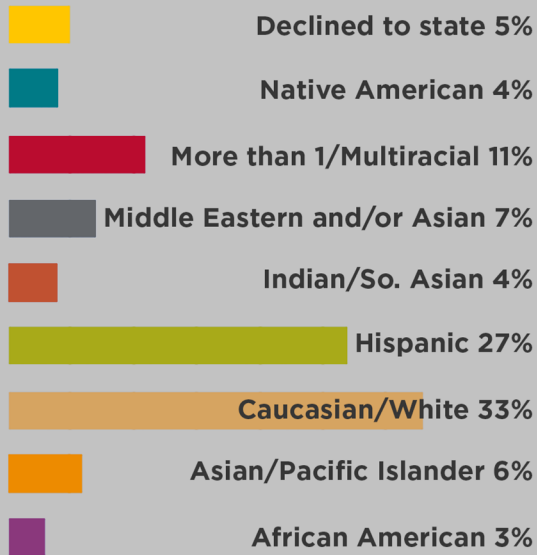
Central NM STEM Research Challenge is a three-division (Elementary, Junior, & Senior), multi-category, regional STEM research competition. The **Central NM STEM Research Challenge** qualifies students to participate in the State Science Fair and sends top qualifying students to the International Science & Engineering Fair (ISEF), the world’s largest pre-college research competition. Research competitions reward discovery and innovation as well as promoting creativity through the discovery of new problems, inventions, ideas, and solutions. They also provide the perfect way to help students develop the “essential” skills needed to succeed in the workplace (ex: time management, personal organization, oral & written communication skills, project management, etc.). Research Challenge serves students and science teachers, grades 4 - 12. Around 10,000 students in the Central region participate in local school research competitions. Schools then qualify students to move on to the regional level. **Almost 270** 4th through 12th grade students **registered for the 2024 Central NM STEM Research Challenge**. Our 2024 Keynote Speaker was Research Challenge alumna, Dr. Katie Liberatore (Rio Rancho HS)!

As an ISEF-Affiliated Fair, the **Central NM STEM Research Challenge** sends 4 projects to ISEF as competing Finalists and, funding allowing, up to two top 8th grade student researchers to ISEF as Student Observers. Our ISEF Finalists from the Central NM Region for 2024 were: **Sowmya Sankaran** from Albuquerque Academy; **Akilan Sankaran** from Albuquerque Academy; **George Privett** from Rio Rancho High School; and **Jason Wang** from Menaul School. Additionally, **Anderson Stoker** from Albuquerque Institute of Math & Science attended ISEF as our 8th Grade Student Observer. The 2024 Regeneron ISEF was held in Los Angeles, CA and our Finalists were all able to attend in person. 2025 Regeneron ISEF will be held in Columbus, OH.



Central NM STEM Research Challenge 2024

Race/Ethnicity

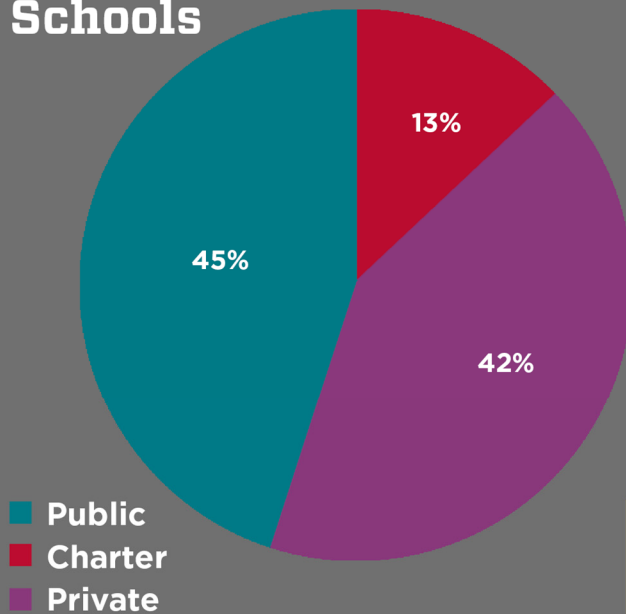


New Mexico student competitors were awarded over \$66,000.00!

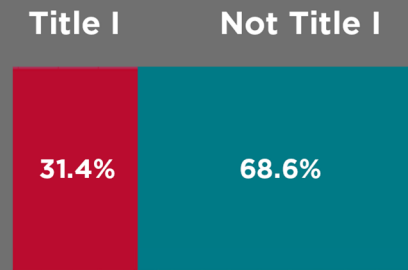
Gender



Schools



Title I



Over 260 students participated in our competition in 2024!

SCIENCE OLYMPIAD

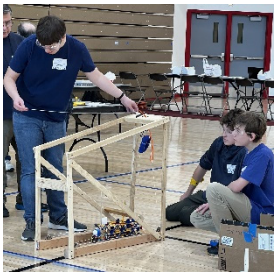
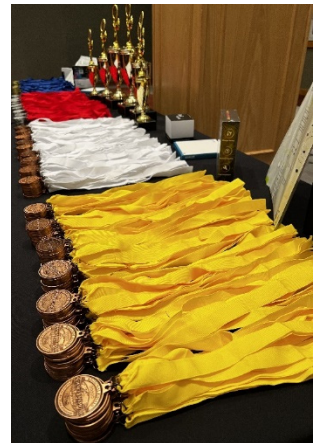
Science Olympiad is an international nonprofit organization devoted to improving the quality of science/STEM education, increasing student interest in STEM and providing recognition for outstanding achievement in science/STEM education by both students and teachers. These goals are accomplished through classroom activities, research, training workshops and the encouragement of intramural, district, regional, state and national tournaments. SO tournaments are rigorous academic interscholastic competitions that consist of a series of events, which students prepare for during the year. Events follow the format of popular board games, TV shows and athletic games. These challenging and motivational events are well balanced between the various STEM disciplines of life sciences, physical sciences, engineering, mathematics, computers, and technology. There is a balance between events requiring knowledge of facts, concepts, processes, skills and science applications. One of the goals of Science Olympiad is to elevate STEM education and learning to a level of enthusiasm and support that is normally reserved only for varsity sports programs...celebrating academic athletes!

In 2024, the **Central NM Science Olympiad** offered **38 events** and had approximately **64 volunteer Event Supervisors, Event Assistants & other volunteers** from UNM and several other area organizations. There were a total of **20 competing teams from 12 middle and high schools** in the region that competed in both virtual and in-person events.

The **Albuquerque Academy High School** team placed 1st at the state competition and represented New Mexico at the 2024 National Science Olympiad competition. Our Division B top three winners were 1st **Albuquerque School of Excellence**, 2nd **Albuquerque Academy B1**, and 3rd **Mountain Mahogany Charter School**. The Division C top three winners were 1st **Albuquerque Academy C1**, 2nd **Cottonwood Classical Prep School**, and 3rd **Albuquerque Area Homeschoolers**.



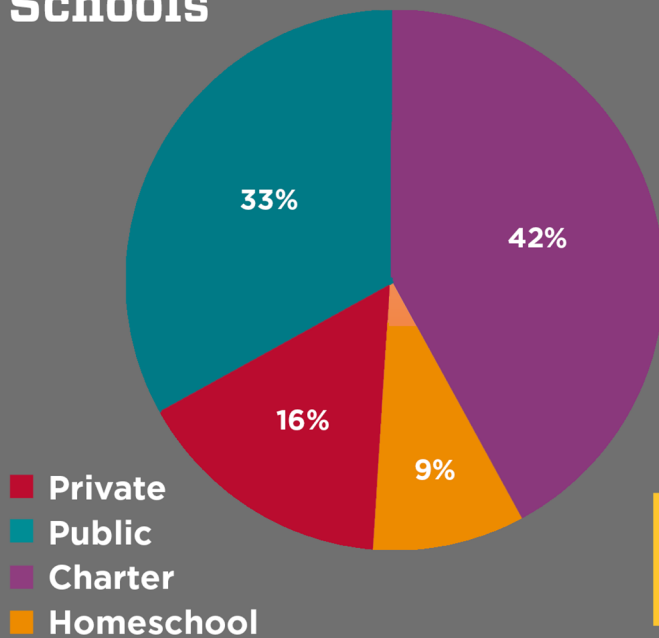
Exploring the World of Science



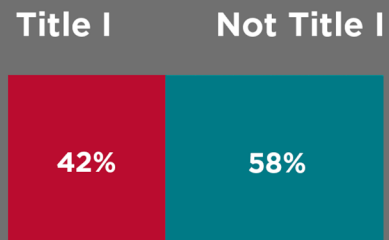
Because the registration process for Science Olympiad takes place through the State Science Olympiad office and individual student demographic information is not collected, at present, we are exploring the best ways to be able to gather the same demographic information on participants as is collected for Research Challenge and SW JSHS. Once we have determined the best mechanism for ensuring accurate data, it will be added to future Annual Reports.

Central NM Regional Science Olympiad 2024

Schools



Title I



Vounteers donated over 500 hours in 2024!

Individual team member data was not collected from SO teams in FY24.

SW JUNIOR SCIENCE & HUMANITIES SYMPOSIUM

The **SW Junior Science & Humanities Symposium** is one of the regional partners of a national competition program **National Junior Science & Humanities Symposium** designed to challenge and engage high school students in STEM research. Individual students compete for scholarships and recognition by presenting the results of their original research efforts before a panel of judges and an audience of their peers. Opportunities for hands-on workshops, panel discussions, career exploration, research lab visits and networking are offered during the competition as well.

JSHS students...

- *Participate in a forum honoring individual achievement in STEM;*
- *Qualify for significant scholarships and other recognition;*
- *Network to enrich understanding of STEM pursuits beyond high school;*
- *Advance in statewide, regional, national and international symposia;*
- *Develop skills to help prepare for undergraduate and graduate pursuits*
- *Develop skills in the application of science (STEM) content to solve a problem or to gain new knowledge, writing a paper, and communicating results.*

JSHS is a collaborative effort with the research arm of the Department of Defense and administered by the National Science Teaching Association (NSTA) in cooperation with colleges/universities nationwide. JSHS aims to prepare and support students to contribute as future scientists and engineers conducting STEM research on behalf of or directly for the Department of Defense, the Federal research laboratories, or for the greater good in advancing the nation's scientific and technological progress.

In 2024, the **SW Junior Science & Humanities Symposium** hosted **30 students** at the fully in-person competition. Five students qualified to compete at the **2024 JSHS National Competition** – 1st Place & Nationals Oral Presenter **Gene Huntley** from V. Sue Cleveland High School (Rio Rancho, NM); 2nd Place & Nationals Oral Presenter **Aarush Tutiki** from Albuquerque Academy (Albuquerque, NM); 3rd Place & Nationals Poster Presenter **Jackson Heins** from Harmony Science Academy (El Paso, TX); 4th Place & Nationals Poster Presenter **Maria Sears** from Monte Vista High School (Monte Vista, CO); and 5th Place & Nationals Poster Presenter **Jordan Rockey** from Monte Vista High School (Monte Vista, CO).

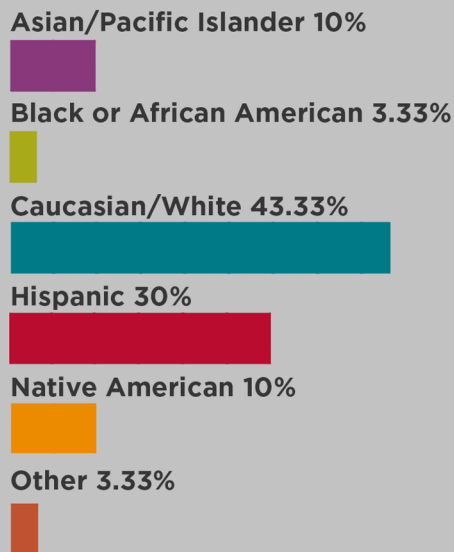
The **SW JSHS Poster Session Winners in Life Sciences** were 1st – **Hayley Redhouse**, 2nd – **Marcus Nahalea**, 3rd – **Monet Nevarez Sanchez**, HM – **Claire Seger**, HM **Sawyer Sides**. The **SW JSHS Poster Vargas**, HM – **Nathan Moritz**, and HM – **Marisa Madrid Larranaga**.



NOTE: As of Fall 2024, the UNM STEM-H Center will no longer be managing the SW JSHS region. Students will still have the opportunity to participate in JSHS either via the SW region if a new managing organization is found ahead of the 2024-2025 season or via a Virtual Region managed by National JSHS until such time as a new regional managing partner organization can be identified.

Junior Science and Humanities Symposium 2024

Race/Ethnicity

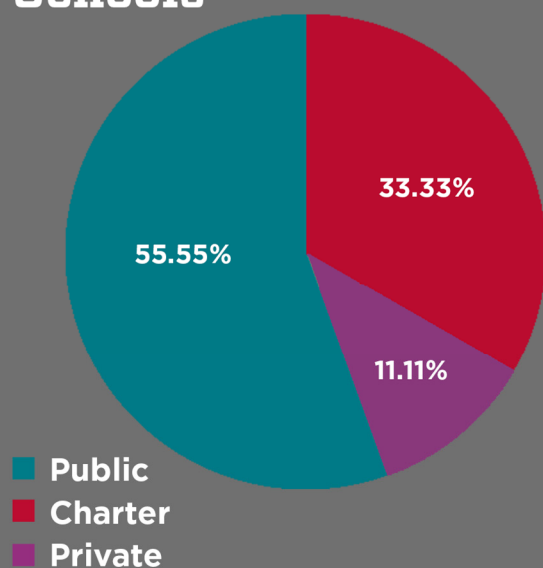


In 2024 the SW Region JSHS hosted 30 students from 11 schools

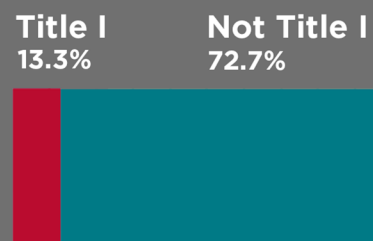
Gender



Schools



Title I



Participants received \$5,700.00 in awards!

EDUCATION & TRAINING

PROFESSIONAL DEVELOPMENT

The **STEM-H Educator Professional Development Workshops** provide teachers with opportunities to engage in professional development specific to including inquiry-based science/math in their classrooms and supporting students in independent inquiry-based research projects leading to local and/or regional as well as potentially state and/or international competition. By engaging in one or more of the workshops, STEM-H educators can prepare themselves to establish or enhance a student research program in their schools/classrooms.

“This (RC Bootcamp) is a refreshing professional development opportunity for me to keep me updated with the changes or new protocols about ISEF to make sure that my students are in compliance and ready to compare.”

2023 RC Bootcamp Teacher Participant

In 2023-2024, Research Challenge Bootcamp was offered both in-person and online. Educators came from within Central NM, throughout the state of NM, and outside our great state (including California, Minnesota, Utah, etc.).

Alaka`ina Foundation/Kupono Government Services continued as the sponsor of the UNM STEM-H Center Learning Lab which has allowed us to utilize a robust online learning management system in Moodle Cloud. The STEM-H Educator Professional Development trainings will continue to evolve over time as needs and funding are identified. Thanks to our amazing community partners, we have also continued to build a video library of **STEM Careers Panels**. Please check out the panels from 2021-2024 on our [STEM-H Center YouTube Channel](#)...and share to your heart's content! Our STEM Career Panel partner in 2024 was **Pajarito Powder**.

STUDENT RESEARCHER BOOTCAMP



The **STEM-H Center's Student Researcher Bootcamp** have provided 4th-8th grade student researchers with project development skills, support, and resources along with an introduction to topics like Project Idea Development, Responsible Conduct of Research (safety, ethics), Statistics/Data Analysis, Judging Preparation, etc. Student Workshops are conducted in partnership with Explora Science Center which provides the space and facilitators for them. This partnership continued in 2022-2023 with four sessions of the Student Researcher Bootcamps being offered by Explora educators in person. Approximately **48 4th-8th grade students**

completed Student Researcher Bootcamp in Fall 2023. In 2024-2025, the STEM-H Center team will be planning for some changes to how this training is delivered to impact significantly more students and the team will be updating the training content and format.

STEM-H LENDING LIBRARY

The **UNM STEM-H Lending Library** offers teachers, schools, homeschool/middle/high school students & community groups as well as University level students/faculty the opportunity to borrow small equipment & curriculum materials. The inventory has its permanent home in Room 114 of the UNM College of Education's Manzanita Hall. Click here to access the current [CATALOG](#).

PARTNERSHIPS/POLICY/ADVOCACY

STRATEGIC PARTNERSHIPS & COLLABORATIONS

Below are examples (not an exhaustive list) of strategic STEM-H Education relationships/collaborations/partnerships that have been developed in recent years or are in the process of development out of the STEM-H Center:

- Advancing STEM Research Teaching Program (ASRT)
- Air Force Research Laboratory – New Mexico
- APS Engineering the Future Program
- Corning Life Sciences
- ENLACE NM
- EPSCoR
- Explora Science Center
- EXPO NM
- Honeywell/Sandia National Laboratories
- Intel Corporation
- Kupono Government Services
- Los Alamos National Laboratories Foundation
- New Mexico PBS
- NM Academy of Science
- NM MESA
- NM Partnership for Mathematics & Science Education
- NM Public Education Department
- NM Science Teachers Association
- NM Supercomputing Challenge
- Oak Ridge Institute for Science Education (JSTI West)
- Pajarito Powder
- PNM Resources
- Project ECHO Education
- Q Station
- Regeneron ISEF Science Fair Directors Group
- Science Buddies
- Science Fair Directors Institute
- Society for Science
- Space Center Houston
- STEM NM Learning Ecosystem
- The Aerospace Corporation
- University of New Mexico
- UNM Engineering Student Services & Outreach Programs
- UNM Biosafety Office
- UNM College of Education
- UNM Health Sciences
- UNM Health Sciences Office for Diversity, Equity & Inclusion
- UNM Human Protections Office
- UNM Health Sciences Institutional Animal Care & Use Committee
- UNM Office of VP for Research
- UNM Responsible Conduct of Research
- UNM School of Engineering
- US Army Corps of Engineers – ABQ District
- Zancada Fellows Program (UNM)

STEM-H CENTER & DIRECTOR RECEIVE NM EXCELLENCE in STEM AWARDS!

2024 was a banner year for the Center and its Director! In June 2024, the **2024 NM Excellence in STEM Award for Higher Education Organization of the Year**.

Additionally, **Karen Kinsman**, Director/Sr. Program Manager received the **2024 New Mexico Excellence in STEM Lifetime Achievement Award**.



POLICY/ADVOCACY

STEM-H Center leadership continued to work with departments within UNM as well as other organizations to develop and sustain STEM-H education related strategic collaborations, policy research/development as well as with federal and state legislative and executive branch contacts (PED/HED, NM State Legislature, US Congressional offices, etc.). The STEM-H Center's Director currently serves on several regional and statewide STEM-H education related boards/councils.

ADVISORY COUNCIL & STAFF

Connie Beimer

VP UNM Alumni Relations
Executive Director UNM Alumni Association

Dr. Reg Bourgeois, PhD

Chief, Strategic Initiatives Group
US Army Corps of Engineers - ABQ District

Sofia Chavez

High School Student
RC & JSHS Alumna

Robert DeBlassie

Sandia National Laboratories Senior Technical Staff
Research Challenge SR Division Master Judge Chair

Dr. Leonard Duda, PhD

Sandia National Laboratories (Retired)
Research Challenge JR Division Master Judge Chair
Central NM Science Olympiad Event Supervisor
SW JSHS Lead Judge

Dr. Melissa Emery-Thompson

Associate VP for Research
UNM Office of Research (main campus)

Mary Homan

NM Gas Company (Retired)
NAIOP NM Research Challenge Committee

Franz Joachim

General Manager, New Mexico PBS
Parent, RC Alumnus

Gianna Nilvo

High School Student
RC & JSHS Alumna

Jennifer Nilvo

District STEM Manager, Belen Consolidated Schools
DoD STEM Ambassador
Research Challenge ELEM Co-Master Judge Chair

Dr. Michelle Ostraat

Chief Scientific Officer
Pajarito Powder

Dr. Heather Pratt-Chavez, MD

Associate Professor, Pediatrics, UNM Health Sciences
Parent, RC & JSHS Alumna
Reviewer, Regional SRC/IRB Committee

Michael Rogers

Engineer
Peraton

Dr. Valerie Romero-Leggott, MD

VP & Diversity, Equity, and Inclusion Executive Officer
HSC Office for Diversity, Equity & Inclusion
Executive Director, UNM BA/MD Program

Ali Vavruska

Sandia National Laboratories
Research Challenge Judge

Gail Vavruska-Marcum

Senior Manager of Compensation
Sandia National Laboratories
Research Challenge Judge

James Vigerust

Corporate Safety Officer, Aptim Federal Services
Research Challenge D&S/Exhibit Halls Manager

Thank

You

STEM-H Center Staff

Karen Kinsman, MS, PMP

Director/Sr. Program Manager

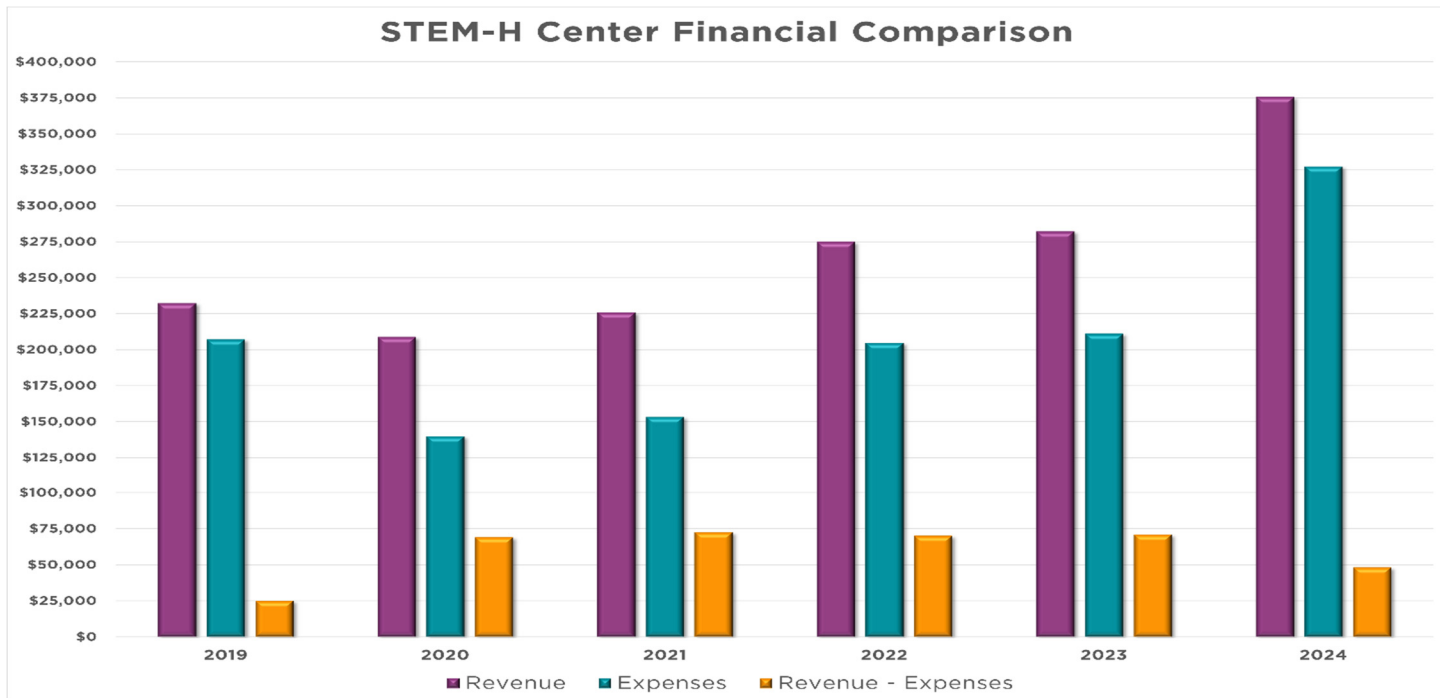
Erin Garcia, JD, MBA Candidate

Asst Director/Program Specialist

Laura Arguelles, MA

Web Developer/LMS Coordinator

FINANCIAL INFORMATION



The 6-year graph above offers a visual comparison, year to year, of the Center’s financial performance since FY19. In FY24, the STEM-H Center team continued to identify efficiencies as well as areas in which additional fundraising efforts could be focused. Given some new funding/sponsorships along with efficient spending and some FY23 funds that came in during FY24, the fiscal year ended again with a comfortable, albeit smaller positive balance forward than in prior years. FY25’s budget was crafted to utilize the balance remaining to support Center operations and our continued commitment to ensuring a robust in-person footprint for all our programs and ongoing virtual options like the Research Challenge Virtual Lobby, STEM Career Panel Videos, a resource-rich website, etc.

IMPORTANT CLARIFICATION TO THE GRAPH DATA ABOVE: Starting with this Annual Report, the 2024 overall revenue/expenses reported for the STEM-H Center **INCLUDES** the institutional support received from both the UNM Health Sciences as well as the UNM Central Campus Office for Research for two full-time staff salaries & fringe. In FY25, the Main Campus Office for Research and Health Sciences Office for DEI allocated 50% each of the salary/fringe benefits for the Director and Assistant Director (the Center’s current full-time staff) into their own accounting indices.

CURRENT FINANCIAL IMPLICATIONS

The UNM STEM-H Center team has continued to work very hard to identify areas in which savings could be realized and costs could be held steady or reduced while still providing the highest quality programs and services possible. A portion of the FY23 Balance Forward represented FY22 funds received after July 1, 2022 (ex: JSBS final annual distribution to regions). The same will be true in FY25. **What’s the bottom line?** The STEM-H Center continues to be in solid financial condition ending the first quarter of FY25. The team will continue to be good stewards of the funding dollars received and work to provide the highest quality programs, services, and resources while ensuring fiscal responsibility. Carry forward funds from FY24 will be budgeted to help support the upcoming leadership transition as well as continuing to expand the professional development modules offered on the STEM-H Center’s online learning management systems (LMS) and ensuring enough funds are available to make sure ISEF travel expenses for Finalists, Observers, and identified adults are fully covered.

APPENDICES

FY24 Programs Impact Grid

Schools Served

Business/Community Group Donors

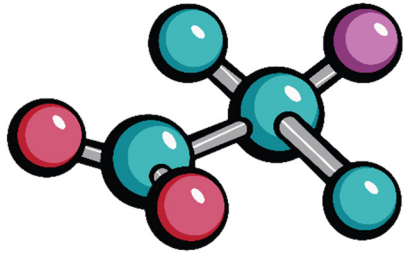
Individual Donors

In-Kind Door Prize Donors

Volunteer Hours & Value of Time

Awards Values

Award Donors - Organizations & Individuals



STEM-H CENTER

PROMOTING SCIENCE, TECHNOLOGY, ENGINEERING, MATH & HEALTH EDUCATION

FY24 STEM-H Center Impact Grid

PROGRAM	4th-12th Grade Students Directly OR Indirectly Impacted	Educators Directly Impacted	Volunteer Judges & Event Supervisors
Central NM Science Olympiad (6 th -12 th Grade)	300	14	65
SW Jr Science & Humanities Symposium (9 th -12 th Grade)	30	7	18
Central NM STEM Research Challenge (4 th -12 th Grade)	268	130	200
Research Challenge Bootcamps (Gr 4-12 Teachers; Fall 2023) <i>Fall/Winter 2023 Teacher PD; online course was left open until end of January 2024; INDIRECT IMPACT determined based on teacher reported # of students worked with regularly. Totals are projected total based on % of participating teachers who completed evaluation surveys & provided student impact numbers averaged over total # of 2023 RC Bootcamp completers (47).</i>	14,965 (Indirect Impact)	47 (In-Person & Online Completers)	N/A
Student Researcher Bootcamps (4 th -8 th Grade Students; Fall 2023)	60	5	N/A
TOTAL PROJECTED IMPACT #'S FOR FY24 PROGRAMS =	15,628	203	283

FY24 SCHOOLS SERVED

ALL public, private, parochial, charter, and home schools in Central New Mexico are eligible to participate in Research Challenge and Science Olympiad. Participation in SW Junior Science & Humanities Symposium is open to high school students throughout NM, the El Paso area of west Texas, and southern Colorado. All participating schools along with the programs in which their students participated, the type of school, and the school's Title 1 status are indicated (*Title I, Part A [Title I] of the Elementary and Secondary Education Act or ESEA, as amended, provides financial assistance to local educational agencies (LEAs) and schools with high numbers or high percentages of children from low-income families to help ensure that all children meet challenging state academic standards*).

REGISTERED SCHOOLS	Research Challenge Bootcamp (workshop)	Central NM STEM Research Challenge	Central NM 4th/5th Grade Research Expo	Central NM Science Olympiad	SW Junior Science & Humanities Symposium	School Type	Title I School
Alamo Navajo Schools	X					BUREAU OF INDIAN ED	✓
Albuquerque Academy		X		X ⁴	X	PRIVATE	✗
Albuquerque Area Homeschoolers				X ²		HOME	✗
Albuquerque High School		X			X	PUBLIC	✓
Albuquerque Institute of Math & Science	X	X		X	X	CHARTER	✓
Albuquerque School of Excellence	X	X	X	X		CHARTER	✓
Albuquerque Sign Language Academy	X	X	X			CHARTER	✓
The ASK Academy		X				CHARTER	✓
Bosque Farms Elementary	X	X	X			PUBLIC	✓
Chief Manuelito Middle School	X					PUBLIC	✓
Christ Lutheran School		X				PRIVATE	✗
Colinas del Norte Elementary School	X		X			PUBLIC	✓
Corrales Elementary School	X		X			PUBLIC	✗
Cottonwood Classical				X ²		CHARTER	✗
Eisenhower Middle School		X				PUBLIC	✗
Georgia O'Keefe Elementary School			X			PUBLIC	✗
Grants High School	X					PUBLIC	✓
Harmony Science Academy					X	CHARTER	✓
Highland High School				X		PUBLIC	✓
Holy Child Catholic School	X	X				PRIVATE	✗
Holy Ghost Catholic School		X				PRIVATE	✗
Immanuel Lutheran	X	X	X			PRIVATE	✗
Jefferson Middle School	X	X				PUBLIC	✓
La Cueva High School		X		X ²		PUBLIC	✗
Los Lunas High School				X ²		PUBLIC	✓
Menaul School		X		X		PRIVATE	✗
Monte Vista High School (CO)					X	PUBLIC	✗
Manzano Day School			X			PRIVATE	✗
Moriarty Middle School	X	X				PUBLIC	✓

REGISTERED SCHOOLS	Research Challenge Bootcamp (workshop)*	Central NM Science & Engineering Research Challenge	Central NM 4th/5th Grade Research Expo	Central NM Science Olympiad	SW Junior Science & Humanities Symposium	School Type	Title I School
Mountain Mahogany Community School				X		CHARTER	✓
Navajo Preparatory School					X	PUBLIC	✗
New Mexico International School				X		CHARTER	✗
Our Lady of the Assumption	X	X	X			PRIVATE	✗
Our Lady of Fatima Catholic School	X	X	X			PRIVATE	✗
Rio Rancho High School	X	X			X	PUBLIC	✗
Route 66 Elementary School			X			PUBLIC	✓
Salam Academy	X	X	X			PRIVATE	✗
San Antonito Elementary School	X		X			PUBLIC	✗
San Juan College High School	X					PUBLIC	✗
St. Pius X High School		X				PRIVATE	✗
St. Therese Catholic School	X	X				PRIVATE	✗
St. Thomas Aquinas School		X	X			PRIVATE	✗
Truman Middle School	X					PUBLIC	✓
Sundance Elementary School	X	X				PUBLIC	✓
Taos Academy					X	CHARTER	✓
Tucumcari High School	X					PUBLIC	✓
V. Sue Cleveland High School	X	X		X	X	PUBLIC	✗
Zuni High School	X					PUBLIC	✓
TOTALS =	25	25	14	Schools 12 Teams 20	9	Public = 24 Private = 13 Charter = 9 Home = 1 BIE = 1	Title I 45.8%

✓ = Title I School

✗ = Not Title I School

X = Fielded "x" # Regional Science Olympiad Teams

FY24 BUSINESS/COMMUNITY GROUP DONORS

(Includes In-Kind Donors for which donation value is known)

DONOR ORGANIZATION	VALUE	LEVEL
UNM Office of the Vice President for Research (<i>institutional sponsorship</i>)	\$105,000.00	Plutonium
UNM Health Sciences Center (<i>institutional sponsorship</i>)	\$105,000.00	Plutonium
Honeywell/Sandia National Laboratories	\$15,000.00	Platinum
UNM Scholarship Office - Jackling Fund	\$15,000.00	Platinum
National Science Teaching Association	\$10,585.00	Silver
DataClassroom (<i>in-kind donation</i>)	\$10,400.00	Silver
Kupono Government Services (Alaka'ina Foundation)	\$10,000.00	Silver
Nusenda Credit Union Foundation	\$9,000.00	Zinc
UNM School of Medicine	\$7,500.00	Zinc
Boeing Employees Community Fund	\$5,000.00	Zinc
Intel Corporation	\$5,000.00	Zinc
UNM School of Engineering	\$5,000.00	Zinc
UNM Health Sciences Center (<i>category and special award sponsorships</i>)	\$3,000.00	Copper
PNM Resources	\$3,000.00	Copper
Digital Reality	\$2,500.00	Copper
UNM Alumni Association	\$2,500.00	Copper
Broadcom Foundation	\$2,250.00	Aluminum
Directed Energy Profession Society	\$1,500.00	Aluminum
Sandia Laboratory Federal Credit Union	\$1,500.00	Aluminum
Dekker, Perich & Sabatini	\$1,000.00	Aluminum
FBT Architects	\$1,000.00	Aluminum
Sandia Peak Tram Company	\$1,000.00	Aluminum
SpringHill Suites by Marriott	\$1,000.00	Aluminum
Goodman Realty Group	\$750.00	Carbon
Kiwanis Club of Coronado	\$750.00	Carbon
American Institute of Aeronautics and Astronautics	\$625.00	Carbon
International Test & Evaluation Association, Roadrunner Chapter	\$575.00	Carbon
Abrazo Homes	\$500.00	Carbon
Allen Sigmon Real Estate Group	\$500.00	Carbon
Anonymous Donor	\$500.00	Carbon
ARGUS Investment Realty	\$500.00	Carbon
Bohannon Huston	\$500.00	Carbon
Bridgers & Paxton Consulting Engineers, Inc.	\$500.00	Carbon
Consensus Planning	\$500.00	Carbon
Convention Services of the Southwest	\$500.00	Carbon
Explora Science Center & Children's Museum	\$500.00	Carbon
Huning, LLC	\$500.00	Carbon
Jaynes Corporation	\$500.00	Carbon
Klinger Constructors LLC	\$500.00	Carbon
New Mexico Bank & Trust	\$500.00	Carbon
RKL Sales	\$500.00	Carbon
Schroeder Sales	\$500.00	Carbon
UNM College of Pharmacy	\$500.00	Carbon
WaFd	\$500.00	Carbon
American Chemical Society, Central NM Section	\$450.00	Helium
American Society of Safety Professionals	\$450.00	Helium
UNM Brain & Behavioral Institute	\$400.00	Helium
Regeneron	\$375.00	Helium
AIC General Contractors	\$300.00	Helium
Bank of Albuquerque	\$300.00	Helium
Century Sign Builders	\$300.00	Helium

Chalmers Ford	\$300.00	Helium
CLA (CliftonLarsonAllen)	\$300.00	Helium
ENLACE NM	\$300.00	Helium
NAI SunVista Commercial	\$300.00	Helium
Sun Vista Enterprises, Inc.	\$300.00	Helium
Tesla Owners Club of New Mexico	\$300.00	Helium
UNM Department of Neurosciences	\$300.00	Helium
American Association of University Women	\$280.00	Helium
Cibus	\$250.00	Helium
Duke City Commercial	\$250.00	Helium
Home Builders Association of Central New Mexico	\$250.00	Helium
Peacock Law P.C.	\$250.00	Helium
Rodey Law	\$250.00	Helium
Climate Change New Mexico	\$225.00	Hydrogen
CBRE	\$200.00	Hydrogen
The Hartman + Majewski Design Group	\$200.00	Hydrogen
New Mexico Engineering Foundation	\$200.00	Hydrogen
Society of Women Engineers	\$200.00	Hydrogen
Albuquerque Astronomical Society	\$175.00	Hydrogen
Association of Old Crows	\$150.00	Hydrogen
Enchanted Lens Camera Club	\$150.00	Hydrogen
Office of Naval Research	\$150.00	Hydrogen
Sandia Grotto	\$150.00	Hydrogen
Albuquerque African Violet Club	\$100.00	Hydrogen
Albuquerque Rocket Society	\$100.00	Hydrogen
DoD STEM	\$100.00	Hydrogen
Lemelson Foundation	\$100.00	Hydrogen
Metro Commercial Realty	\$100.00	Hydrogen
Center for Water & the Environment	\$100.00	Hydrogen
FY24 BUSINESS & COMMUNITY ORGANIZATION TOTAL VALUE OF SPONSORSHIPS/DONATIONS =	\$342,540.00	

CORPORATE/BUSINESS SPONSORSHIP LEVELS

PLUTONIUM	\$30,000+
GOLD	\$20,000-\$29,999
PLATINUM	\$15,000-\$19,999
SILVER	\$10,000-\$14,999
ZINC	\$5,000-\$9,999
COPPER	\$2,500-\$4,999
ALUMINUM	\$1,000-\$2,499
CARBON	\$500-\$999
HELIUM	\$250-\$499
HYDROGEN	\$5-\$249

INDIVIDUAL SPONSORSHIP LEVELS

EINSTEIN	\$2,500+
CURIE	\$1,500-\$2,499
DARWIN	\$1,000-\$1,499
CARVER	\$500-\$999
NEWTON	\$250-\$499
OCHOA	\$100-\$249
GATES	\$50-\$99
ROSS	\$5-\$49



FY24 INDIVIDUAL SPONSORS/DONORS

(Includes Monetary & In-Kind Donors for which donation value is known as well as both Office & Donor-Paid Awards)

DONOR	VALUE	LEVEL
Pat & Len Duda	\$2,250.00	Curie
Foreman Family	\$1,255.00	Darwin
Karen & Tommy Hudson	\$1,000.00	Darwin
Karen Robinson	\$700.00	Carver
Randi Buck	\$600.00	Carver
Tom & Maxine Grossman	\$600.00	Carver
Louis & Stacy Abruzzo	\$500.00	Carver
Benjamin Gardner, AIA, LEED, AP	\$500.00	Carver
Nancy Schmierbach	\$500.00	Carver
Lawrence M. Wells, Esq.	\$500.00	Carver
Appel Family	\$400.00	Newton
James Topmiller	\$350.00	Newton
Keith & Mary Meyer	\$300.00	Newton
Thomas Keleher	\$250.00	Newton
Angela Wandinger-Ness	\$250.00	Newton
Karen Kinsman & Holly Lowe	\$240.00	Ochoa
Dave & Rhonda Hill	\$200.00	Ochoa
Todd Thompson	\$200.00	Ochoa
Eric & Bryanna Baker	\$150.00	Ochoa
James Vigerust	\$150.00	Ochoa
Emily Weigel	\$120.00	Ochoa
Lynne Anderson & John Gallegos	\$100.00	Ochoa
Bill & Mary Chambers	\$100.00	Ochoa
Kenneth & Belinda Eras	\$100.00	Ochoa
FY24 INDIVIDUAL SPONSORSHIPS/DONATIONS = <i>(Includes Operating, Sponsorships, In-Kind & Awards Funding)</i>	\$11,315.00	
FY24 COMBINED MONETARY/IN-KIND SPONSORSHIPS & DONATIONS TOTAL = <i>(Includes Operating, Sponsorships, In-Kind & Awards Funding)</i>	\$353,855.00	

2023-2024 VOLUNTEER HOURS & VALUE OF TIME

2024 Central New Mexico STEM Research Challenge

	# of Volunteers	# of Volunteer Hours	Value of Volunteer Hours
Category Judges <i>(8 hrs per judge @ \$35/hr avg in-kind time donation)</i>	116	928	\$32,480.00
Judge Chairs/Master Chairs <i>(25 hrs per judge @ \$35/hr avg in-kind time donation)</i>	22	550	\$19,250.00
Special Awards Judges <i>(4 hrs per judge @ \$35/hr avg in-kind time donation)</i>	60	240	\$8,400.00
Registration Volunteers <i>(3 hrs per volunteer @ \$35/hr avg in-kind time donation)</i>	10	30	\$1,050.00
Registration Volunteers Coordinator <i>(20 hrs @ \$35/hr avg in-kind time donation)</i>	1	20	\$700.00
Display & Safety Inspectors <i>(4 hrs per volunteer @ \$35/hr avg in-kind time donation)</i>	20	80	\$2,800.00
Display & Safety Committee Chairs <i>(20 hrs per volunteer @ \$35/hr avg in-kind time donation)</i>	1	20	\$700.00
Speakers - Panels and Other Individual Speakers <i>(2-3 hrs per speaker/moderator @ \$35/hr avg in-kind time donation)</i>	6	18	\$630.00
Speakers-Keynote <i>(8 hrs @ \$35/hr avg in-kind time donation)</i>	1	8	\$240.00
Security & Floor Monitors <i>(8 hrs per volunteer @ \$35/hr avg in-kind time donation)</i>	14	112	\$3,920.00
TOTAL SERC VOLUNTEERS =	251	2006	\$70,170.00

2024 Advisory Board	# of Volunteers	# of Volunteer Hours	Value of Volunteer Hours
Board Members - Volunteer <i>(8 hrs per board member @ \$35/hr avg in-kind time donation)</i>	16	128	\$4,480.00
ADVISORY COUNCIL =	16	128	\$4,480.00

2024 Central NM Science Olympiad	# of Volunteers	# of Volunteer Hours	Value of Volunteer Hours
Events with Volunteer Event Supervisors <i>(12 hrs per ES for prep & facilitation @ \$35/hr avg in-kind time donation; some ES's prepared & supervised more than one of the 42 events; time for each event is counted here)</i>	42	504	\$17,640.00
Other Volunteers <i>(Average 4 hrs each; Average 1 per event @ \$35/hr avg in-kind time donation)</i>	22	88	\$3,080.00
SO VOLUNTEERS =	64	592	\$20,720.00

2024 SW Junior Science & Humanities Symposium (JSHS)	# of Volunteers	# of Volunteer Hours	Value of Volunteer Hours
Judges <i>(8 hrs per judge @ \$35/hr avg in-kind time donation)</i>	14	112	\$3,920.00
Speakers <i>(3 hrs @ \$35/hr avg in-kind time donation)</i>	3	9	\$315.00
JSHS VOLUNTEERS =	17	121	\$4,235.00

	TOTAL # Volunteers	TOTAL # Volunteer Hours	TOTAL Value Volunteer Hours
FY24 GRAND TOTAL =	348	2,847	\$99,605.00

Volunteer time value calculated at \$35/hour which is higher than national average of \$33.49/hour and the NM average of \$27.38. A majority of our volunteers are STEM professionals/retirees whose hourly pay rate may be significantly higher than these averages which we took into account when calculating the value of volunteer hours.

**The term "office-paid" means that the STEM-H Center receives funds from a number of award donors who prefer that the Center staff process/pay their awards rather than the donor processing and paying them directly themselves. There are also some unsponsored awards which the STEM-H Center pays out of its budget annually (ex: some Top-of-Category awards, JSHS poster awards, etc.)*



2023-2024 STUDENT & TEACHER AWARD DONORS

2024 Central NM STEM Research Challenge AWARDS

Special Awards - Donor Paid \$7,755.00

Special Awards - Office Paid \$51,755.00

Top of Category Awards - Office Paid \$6,500.00

CNM-SERC AWARDS = \$66,010.00

2024 Central NM Science Olympiad AWARDS

Science Olympiad - Trophies, Medals, etc. \$1,240.00

SCIENCE OLYMPIAD AWARDS = \$1,240.00

2024 SW Jr Science & Humanities Symposium AWARDS

SW Region JSHS - Donor Paid (scholarships) \$4,500.00

SW Region JSHS - Office Paid (cash) \$1,200.00

SW JSHS AWARDS = \$5,700.00

TOTAL AWARDS (all programs) = \$72,950.00



2023-2024 STUDENT & TEACHER AWARD DONORS

Abrazo Homes	Lemelson Foundation
AIC General Contractors	Louis & Stacy Abruzzo
Albuquerque African Violet Club	Metro Commercial Realty
Albuquerque Astronomical Society	NAI SunVista Commercial
Albuquerque Rocket Society	Nancy Schmierbach
Allen Sigmon Real Estate	NASA
American Association of University Women	National Oceanic and Atmospheric Administration
American Chemical Society - Central NM Section	New Mexico Bank & Trust
American Institute of Aeronautics and Astronautics	New Mexico Engineering Foundation
American Psychological Association	Nusenda Credit Union
American Society of Safety Professionals - NM	Peacock Law P.C.
Appel Family	Randi Buck
Argus Investment Realty, Inc.	Regeneron
Association for Women Geoscientists	Ricoh
Association of Old Crows	RKL Sales
Bank of Albuquerque	Rodey Law
Benjamin Gardner, AIA, LEED, AP	Sandia Grotto
Bohannon Huston	Sandia Laboratory Federal Credit Union
Bridgers & Paxton Consulting Engineers	Sandia Peak Tram Company
Broadcom Foundation	Schroeder Sales
CBRE	Society of Women Engineers, Central NM Section
Center for Water & the Environment (UNM SOE)	Springhill Suites by Marriott (Journal Center)
Century Sign Builders	Sun Vista Enterprises, Inc.
Chalmers Ford	Tesla Owners Club of New Mexico
Cibus	Thermo Fisher Scientific
Climate Change New Mexico	Thomas Keleher
CliftonLarsonAllen	Todd Thompson
Consensus Planning	Tom & Maxine Grossman
Dave & Rhonda Hill	United States Air Force
Dekker, Perich, Sabatini	United States Metric Association
Directed Energy Profession Society	United States Navy and Marine Corps
DoD STEM	UNM Brain & Behavioral Health Institute
Duke City Commercial	UNM College of Pharmacy
Enchanted Lens Camera Club	UNM Department of Neurosciences
ENLACE New Mexico	UNM Health Sciences Center
Eric & Bryanna Baker	U.S. Agency for International Development (USAID)
Explora Science Center and Children's Museum	WaFd
FBT Architects	Yale Science & Engineering Association, Inc.
Foreman Family	
Goodman Realty Group	
Hartman + Majewski Design Group	
Home Builders Association of Central NM	
Huning, LLC	
Int'l Test & Evaluation Association, Roadrunner	
Jackling Fund- UNM	
James Topmiller	
James Vigerust	
Jaynes Corporation	
Karen Robinson	
Karen & Tommy Hudson	
Keith Meyer & Mary Meyer, Ph.D	
Kiwanis Club of Coronado	
Klinger Constructors, LLC	
Lawrence M. Wells, Esq.	



FY24 IN-KIND DOOR PRIZE DONORS

We would also like to acknowledge the organizations that donated raffle prizes for the STEM Research Challenge. Exact value of each donation is not known.

Albuquerque Isotopes

APS Sustaining the Future

Big Brothers Big Sisters of Central NM

Great Southwest Council, Inc - BSA

PNM

Project ECHO Education

Sandia National Laboratories

UNM Admissions

UNM College of Pharmacy

UNM Combined BA/MD Program

UNM School of Engineering

UNM STEM-H Center



THANK YOU to all our sponsors & award donors for their spectacular commitment in helping us recognize the hard work of our student and teacher participants!

We are humbled by your support!

WE NEED YOU! Please consider a monthly recurring donation or a one-time donation in any amount in support of the UNM STEM-H Center! Everything, large & small, helps the Center to continue providing high quality programs for students & teachers. **We appreciate every gift!**

<https://bit.ly/STEMHdonate>



HEALTH SCIENCES OFFICE FOR
DIVERSITY, EQUITY & INCLUSION

OFFICE OF THE VICE PRESIDENT
FOR RESEARCH



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