

New Mexico State University 2021 Legislative Initiatives



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NMSU LEADS 2025

Mission

The mission of the New Mexico State University system is to serve the diverse needs of the state through comprehensive programs of education, research, extension and outreach, and public service. As the state's land-grant and space-grant university, and as a Hispanic-Serving Institution, NMSU fosters learning, inquiry, diversity and inclusion, social mobility, and service to the broader community.

Vision

By 2025, the NMSU system will excel in student success and social mobility for our diverse student populations, achieve the highest Carnegie research status (R1), and maintain our Carnegie Community Engagement classification.

Values: NMSU LEADS

- **Leadership:** Promoting and creating the ability for Aggies to shape the future
- **Excellence:** providing the highest level of education, research, outreach, and service
- **Access:** Welcoming diverse populations to higher education and to the NMSU community
- **Diversity & Inclusion:** Embracing our differences as an asset and actively seeking to include wide-ranging perspectives
- **Student-centered:** Supporting the education of our students through every aspect of our university every day

NMSU Strategic Goals

Goal 1: Enhance Student Success & Social Mobility

Student success across the NMSU system is driven by a commitment to learning, degree completion, and career attainment enriched by our research and outreach enterprise. Our students are served by our culture of inclusivity and educational delivery that meets student needs and includes online and hands-on learning. Recognizing the diverse backgrounds of students across the system, NMSU provides a supportive environment for students to become a part of, and contribute to, the campus community, the state, the country and the world.

Goal 2: Elevate Research & Creativity

NMSU recognizes that all disciplines advance research, scholarship and creative activity, and along with the assets of the state of New Mexico, create a strong foundation for teaching, learning, education, training, innovation, and economic development.

Goal 3: Amplify Extension & Outreach

NMSU outreach extends knowledge beyond the university, drives integration of activities, directly and indirectly, and supports student learning, experiences, and success. Our outreach activities include research, connections with communities and families, multigenerational engagement, economic development and entrepreneurship, and collaborative efforts with industry, corporations, and government agencies.

Goal 4: Build a Robust University System

NMSU seeks to improve the University System, across the board, for faculty, staff, students, alumni, donors, stakeholders, and prospective students and their families. Cooperation throughout the NMSU system will be exemplary for university systems across the nation through efficient, effective, and empowering operations that align with our strategic goals.

Summaries of Legislative Requests

**STATEWIDE HIGHER EDUCATION
FUNDING PRIORITIES**
Council of University Presidents

- Support the LFC recommendation that fully restores the special session \$20 million federal funds swap and increases I&G
- Support the LFC compensation increase
- Enhance student financial aid, including the lottery scholarship, opportunity scholarship and include baccalaureate seeking students, College Affordability Fund & the Teacher Prep Affordability Scholarship
- Support flat funding for state agency like programs in higher education with statewide responsibility: Agricultural Experiment Station, Cooperative Extension Service, NM Department of Agriculture, Bureau of Geology & Mineral Resources (NM Tech) & Office of Medical Investigator (UNM)
- Invest in the Higher Education Endowment Fund that provides a 2 to 1 match with funds raised by an institution (non-recurring)
- Fully fund dual credit for higher education
- Increase funding for the higher education department to enhance facilitation with common course numbering, data analysis and financial aid management

NMSU FY22 Capital Outlay Requests

NMSU – Las Cruces

- Repair Tunnel A Sections..... \$3,000,000
- Agricultural Science Center Improvements \$3,000,000
- Data Center Infrastructure Upgrades..... \$1,516,000
- Selective Demolition per Space Plan (Greek Complex) \$1,500,000

NMSU – Alamogordo

- Mechanical Ductwork & Boiler Feed Lines / Classroom Building \$160,000
- Classroom Building Infrastructure..... \$650,000

NMSU – Carlsbad

- Information Technology & Infrastructure Upgrades..... \$750,000

NMSU – Doña Ana

- Classroom and Lab Renovations..... \$1,500,000

NMSU – Grants

- Martinez Hall Roof Replacement \$1,200,000

Athletics

- ADA and Facility Improvements..... \$6,075,000

NM Department of Agriculture (State Agency Request)

- Building Renovations Phase 3; Design, Construct and replace \$10,500,000

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FY22 Legislative Priorities

**FY22 Non I&G and Research & Public Service Projects
(RPSP)**

PROGRAM	REQUEST	\$CHANGE
Agricultural Programs		
Agricultural Experiment Station	\$14,542,700	\$0
Cooperative Extension Service	\$13,185,900	\$0
New Mexico Department of Agriculture	\$12,092,400	\$0
Research & Public Service Projects – Main Campus		
STEM Alliance for Minority Participation (AMP)	\$298,900	\$0
College Assistance Migrant Program (CAMP)	\$193,500	\$0
Arrowhead Center for Business Development	\$323,300	\$0
Nurse Expansion	\$1,062,366	\$216,166
Sunspot	\$256,600	\$0
Water Resources Research Institute	\$1,064,000	\$0
Mental Health Nurse Practitioner	\$940,000	\$0
Manufacturing Sector Development Program	\$634,100	\$0
Alliance for Teaching & Learning Development	\$146,500	\$0
Indian Resources Development	\$261,200	\$0
Sustainable Agriculture Center of Excellence	\$240,000	\$0
Autism Program	\$577,200	\$0
Anna Age Eight Institute	\$821,600	\$0
Research & Public Service Projects – Carlsbad		
Manufacturing Sector Development	\$218,900	\$0
Nurse Expansion	\$102,400	\$0
Research & Public Service Projects – Doña Ana		
Nurse Expansion	\$275,900	\$0
Dental Hygiene	\$287,600	\$0
Research & Public Service Projects - Grants		
Veterans Services	\$47,000	\$0
NMSU Main Campus		
Athletics	\$3,712,200	\$0
Educational Television	\$991,000	\$0

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NMSU Capital Outlay

FY22 STATEWIDE CAPITAL OUTLAY REQUESTS/RECOMMENDATIONS				
Campus/Project		NMSU Request	Recommendations	
			HED	LFC
NMSU-LAS CRUCES		9,016,000	4,500,000	-
1	Repair Tunnel A Sections	3,000,000	3,000,000	NA
2	Ag Science Center Improvements	3,000,000	1,500,000	NA
3	Data Center Infrastructure Upgrades	1,516,000	NA	NA
4	Selective Demolition per Space Plan (Greek Complex)	1,500,000	NA	NA
NMSU-ALAMOGORDO		810,000	650,000	-
1	Mechanical Ductwork and Boiler Feed Lines Classroom Bldng	160,000	-	
2	Classroom Building Infrastructure	650,000	650,000	NA
NMSU-CARLSBAD		750,000	-	-
1	Information Technology and Other Infrastructure Upgrades	750,000	NA	NA
NMSU-DACC		1,500,000	-	-
1	Classroom and Lab Renovations	1,500,000	NA	NA
NMSU-GRANTS		1,200,000	887,500	-
1	Martinez Hall Roof Replacement	1,200,000	887,500	NA
GRAND TOTAL (Higher Education Dept. Requests)		13,276,000	6,037,500	-
Athletics		6,075,000	NA	NA
1	Athletics*	6,075,000	NA	NA
NM DEPARTMENT AGRICULTURE (State Agency Request)*		10,500,000	NA	-
1	NMDA Building Renovations Phase 3	10,500,000	NA	NA
Grand Total		29,851,000	6,037,500	-

* The Higher Education Department and the Legislative Finance Committee only review I&G related

Capital Outlay

NMSU – Las Cruces

New Mexico State University

2022 Capital Outlay Request

NMSU-Las Cruces Repair Tunnel A Sections

2022 Request:	\$3,000,000
University Commitment:	\$4,736,434
Total Cost:	\$10,736,434
NMSU-Las Cruces Priority:	1

General Description

NMSU is requesting \$3,000,000 to plan, design, construct, renovate, and equip infrastructure repairs and replacement for the utility tunnel system at New Mexico State University- Las Cruces. The tunnel system remediation on the University's Las Cruces campus is urgent. New Mexico State University commissioned an extensive study of NMSU's utility tunnel by Bohannon Huston, Inc. in 2013. A follow-up to the 2013 report, NMSU Utility Tunnel, Structural Integrity Study Update, was completed two years ago, dated August 15, 2016. As many as are feasible of the emergency repairs identified as critical priority and the highest priority are being addressed.

Recommended repairs were prioritized, with the highest priority identifying sections of tunnel system that are severely deteriorated and in danger of imminent failure. The repairs are necessary to maintain the safety of student/staff/faculty as portions of the tunnel system are severely deteriorated and structurally unstable. The project is a continuation of the planned repairs and emergency repairs previously approved with Tunnel Repair Phase 1-5 projects.

The utility tunnel houses the underground utilities campus-wide on the Las Cruces campus. The tunnel project (Repair Tunnel A Sections) is listed as the top priority on the institution's Five Year Capital Project Funding Plan for the state. The condition of the tunnel sections continue to worsen, and priority sections are also budgeted in the annual BRR Project list for major infrastructure repairs.

Scope of Work

New Mexico State University's top priority is the urgent tunnel system remediation on the University's Las Cruces campus. Bohannon Huston Engineering performed a Structural Integrity Study of the utility tunnel system in October 2013. Recommended repairs were prioritized, with the highest priority identifying sections of tunnel system that are severely deteriorated and in danger of imminent failure. The project is a continuation of the planned repairs and emergency repairs previously approved.

The utility tunnel houses the underground utilities campus-wide on the Las Cruces campus. Repair/replacement work to any segment of the tunnel benefit the entire network of pipes and conduits that provide the vital operating services such as: fiber optics, chilled water & steam, communications, and fire protection. Should the tunnel structure fail, chilled water service could not be provided, as well as other utilities being negatively impacted, compromising the usability and safety of the building and campus as a whole.



New Mexico State University

2022 Capital Outlay Request

The scope of work for Phase VII repairs will include the removal and replacement of additional sections of the deteriorated utility system that are in imminent danger of collapse, and proactive repair of medium priority sections.

Phases:

Previous Tunnel System Repairs were internally funded by BRR and include:

NMSU Tunnel System Study (\$203,673)

NM Higher Education Department– November 12, 2014, Phase I
(Final Project Cost \$681,495)

NM Higher Education Department– May 19, 2016, Phase II
(Final Project Cost \$450,172)

NM Higher Education Department – September 14, 2016, Phase III
(Final Project Cost \$1,563,894)

NM Higher Education Department– December 15, 2017, Phase IV
(Final Project Cost \$674,859)

NM Higher Education Department- November 14, 2018, Phase V
(Final Project Cost \$706,823)

NM Higher Education Department- October 11, 2019, Phase VI
(Expected Project Cost \$3,357,000, project in construction)

The strategic plan to repair and replace the most critical sections of the tunnel will prolong the life of the repaired section, and delay continued deterioration of the tunnel system. The health and safety of the majority of the academic core facilities at the main campus are supported by the utility tunnel. Priority areas have been identified that will require roof delamination repairs, shoring under the roadway, and both vertical and horizontal cracking at the walls.

Language for appropriation: \$3,000,000 to plan, design, construct, renovate, and equip infrastructure repairs and replacement for the utility tunnel system at New Mexico State University- Las Cruces.



New Mexico State University

2022 Capital Outlay Request

Ag Science Center Improvements

2022 Request: \$ 3,000,000
NMSU-Las Cruces Priority: 2

NMSU is requesting \$3,000,000 to plan, design, construct, renovate, furnish and equip renovations, additions, demolition and new construction for Agriculture Science Centers statewide, including re-roof of buildings and site improvements at the New Mexico State University-Las Cruces system.

Based on the Agriculture Science Center Assessment dated April 23-26, 2012, this project will repair, replace, construct and renovate agricultural facilities at the Agriculture Science Centers (ASC) statewide.

The Agriculture Science Centers Assessment is critical to the functioning of the facilities. The infrastructure needs support the land grant mission, as the ASC focus is on research and outreach throughout New Mexico. If exterior repairs, building systems and site remediation are not addressed, the deterioration to the agriculture science centers will not be habitable, and cease to exist for the people of New Mexico. NMSU system is the state's land-grant university, serving educational needs of New Mexico's diverse population through comprehensive programs of education, research, extension education, and public service. Without the ASC repairs, extension research, and education will be greatly hindered.

Example of types of projects for improvements by ASC location include:

Alcalde Agriculture Science Center- A few of the needs that were identified include new plaster, roof, code compliant railings, doors/windows, HVAC upgrades, adobe and drainage at the old historic office building.

Clayton Livestock Research Center- Items to be addressed included, but not limited to upgrading the feed mill and painting; bathroom renovation and window replacement for Residence 339B; and exterior stucco repairs to office and residence.

Agricultural Science Center at Clovis- The major concerns are both wells, electrical in office, greenhouse and expansion for the shop facility.

Mora Research Center- This facility requires a new roof for the office/shop building and for the residences, separate septic tanks for buildings; and repairs/replacement to critical equipment.

Agricultural Science Center at Tucumcari- This center has exterior skin concerns for the 100 year old adobe building walls that are crumbling; stucco/plaster at several buildings; need for new windows; paint to protect and repair the existing rafters/eaves, and electrical deficiencies at the office and residence building.



New Mexico State University

2022 Capital Outlay Request

The entire College of Agricultural Consumer and Environmental Sciences (ACES) benefits from the research at the Ag Science Centers, as does the entire NMSU System, region, state and nation.

NMSU has awarded the Ag Science Center Renovations to a design team of architects and engineers to assist in identifying the critical needs, opinion of probable cost, and drawing set to organize the process. The first set of improvement projects will begin July 2020. The next group of projects will be evaluated by the professional design group.

Faculty at each ASC determined the top repair priorities for their centers. AES administrators, along with NMSU Facilities and Services staff, assigned overall priorities based on the amount of funds available and the estimated costs for the repairs. Top priority always is public safety.

Language for appropriation: To plan, design, construct, renovate, furnish and equip renovations, additions, demolition and new construction for Agriculture Science Centers statewide, including re-roof of buildings and site improvements at New Mexico State University- Las Cruces system.



New Mexico State University

2022 Capital Outlay Request

NMSU-Las Cruces Data Center Infrastructure Upgrades

2022 Request: \$ 1,516,000
Total Cost: \$ 7,550,000
NMSU-Las Cruces Priority: 3

General Description

NMSU is requesting \$1,516,000 for the upgrade and replacement of data center infrastructure, data center computer systems and network equipment, and short-distance and long-distance fiber infrastructure at the New Mexico State University- Las Cruces system.

The key components of the Data Center's infrastructure and hardware are new generator, UPS battery replacement and fiber DWDM equipment replacement for short-distance and long-distance fiber routing. Upgrades of the data center computer systems and network equipment will replace outdated and deficient systems and create technology for today's learning environment. Potential upgrades include replacement of network routers and switches, computer hardware and storage, backup hardware for disaster recovery using DoIT (Department of Information Technology) Data Center in Santa Fe as a remote disaster recovery site. Upgrades of the campus short-distance fibers between the primary and secondary data centers and upgrades of the long-distance fibers from Las Cruces, Albuquerque and Santa Fe are essential to maintain the connectivity among higher educational institutions and state entities.

Scope of Work

As a result of the downward trend in state revenue over the last decade, it should be realized that NMSU continues to defer the implementation of IT resources that are expected of a tier one research institution. If we continue to defer it will impede the ability to deliver on the core mission of secure, timely and effective pedagogy and research. As technology becomes more critical to business of the university and if technology is not updated, it will make NMSU less capable of attracting and retaining students, as well as talented faculty and staff.

2021-2022 (Severance Tax Bond Year- Data Center Infrastructure Upgrades scope of work:

- Computer Hardware and Virtual Servers - Replacement & Growth- \$200,000
- Disk space for the Storage Area Network- \$250,000
- Disaster Recovery (Backups) replacement- \$348,000
- Long Distance/Short Distance Fiber Routing Equipment (DWDM)- \$248,000
- Fiber and Trenching- \$50,000
- Network Router and Switches for local and remote Data Centers- \$200,000
(Industry average replacement is 10 years)
- Security/Firewall Appliance - Upgrade- \$120,000
- Vulnerability Monitor/Testing and IDS/IPS (Intrusion Detection/Protection System) Appliance- \$100,000

Total: \$1,516,000



New Mexico State University

2022 Capital Outlay Request

This project will work to address the NMSU central computing servers and infrastructure on which NMSU's business, HR, and student computing applications reside. Ensuring that NMSU's data is secure, accurate, and available to the NMSU community, is top priority for improved cybersecurity on campus. State-of-the-art technology will be used to secure and protect NMSU's technology infrastructure. ICT manages security for the Computer Center, Milton Hall data center and offsite storage. It also handles functional administrative enterprise security analysis, workflow and access control. ICT coordinates IT Security for all NMSU campuses. This includes forensics investigations for crimes, policy violations or compromised systems. Additionally, handling copyright violation, infected device notification, network blocking, system log aggregation and analysis, antivirus software management, vulnerability scanning and security planning and direction is the role of ICT.

Datacenter upgrades – ICT's data centers contain the communications, networking, and computing technology on which much of the university's business is conducted. As such, ICT continually enhances technologies contained therein.

The upgrades include:

- Upgrading the servers and storage – This ensures the hardware equipment are kept up-to-date with proper security specifications.
- Upgrading the network routers and switches - This improves the movement of data across two NMSU datacenters (ICT Computer Center and Milton Hall).
- Upgrading the data center firewall – The upgrade protects data transfer and improves data security. The upgrade helps ensure that servers within the datacenter are protected from intrusion.

Language for appropriation: To plan, design, construct, renovate, furnish and equip renovations, additions, demolition and new construction for data center infrastructure upgrades statewide.



New Mexico State University

2022 Capital Outlay Request

NMSU-Las Cruces Selective Demolition

2022 Request: \$ 1,500,000
Total Cost: \$ 1,500,000
NMSU-Las Cruces Priority: 4

General Description

NMSU is requesting \$1,500,000 to plan, abate and demolish selective demolition at New Mexico State University- Las Cruces.

Greek West: The existing facility is a group of buildings that was occupied by various Fraternities and Sororities on campus. Housing rents these facilities to the Greek Charters. These facilities were constructed in 1964-65 and have held up to some degree but overall need a lot of attention.

Greek East: The existing facility is a group of buildings that was occupied by various Fraternities and Sororities on campus. Housing rents these facilities to the Greek Charters. These facilities, which were constructed in 1989-1990, were not built as a long term investment for the University. The housing department has reported that, at most, these facilities were expected to last 20 years.

Based on our observations, there is a significant amount of work that needs to be done to update and bring this complex into current code compliance. Piece-meal attempts to update only “critical” elements will only lead to a continued rise in on-going maintenance costs. The recommendation is a complete demolition of the complex, which would require alternative facilities for occupants. The amount of money that will need to be invested to make the existing facilities safe, code compliant and market competitive is great. This does not seem to be a good investment for the University based on the existing degree of disrepair. The University will need to look at life cycle costs, including increased maintenance and upgrades as it compares renovation of the existing facilities versus replacement. This looks to be the best option in our opinion. Whether a replacement facility is needed, or if these students can be absorbed into the existing housing inventory will have to be evaluated.

Scope of Work

Abate and demolish the building listed on the Proposed for Demolition List. The current top priority is the Greek East and West Complexes after relocating existing office occupants at the end of the spring semester 2018. The existing buildings include a total of 66,207 sq. ft. with combined Greek East (35,586 GSF) and Greek West (30,621 GSF) of the fraternities, sororities, and organizations housed on campus. Deferred maintenance costs for these deteriorating buildings continued to increase, with no funding mechanism or plan to bring the facilities up to current codes; the residence were closed to occupants in 2018. Removing this complex from the campus inventory lowered repair costs.



New Mexico State University

2022 Capital Outlay Request

This project will remove aging and deteriorating facilities, and reduce maintenance costs in the Greek West buildings with the highest Facilities Condition Index (114%) on the main campus at NMSU. The FCI is an indicator of the overall condition of a building; calculated by dividing the maintenance, repair and replacement deficiencies of the facility by the current replacement value of the facility.

Language for appropriation: NMSU is requesting \$1,500,000 to plan, abate and demolish selective demolition at New Mexico State University- Las Cruces.



New Mexico State University

2022 Capital Outlay Request

NMSU Athletics Capital Outlay Requests

2022 Request: \$ 6,075,000
NMSU-Las Cruces Priority: 1

NMSU is requesting \$6,075,000 to plan, design, construct, renovate, furnish, and equipment renovations, additions and demolition to athletic facilities at NMSU-Las Cruces. Renovations include American Disabilities Act (ADA) improvements, lighting improvements, and repair to athletic facilities that will impact student athletes, and spectators and fans who attend athletic events.

Football Video Boards \$ 1,000,000

Remove the old scoreboard, patch and repair the demolition areas as needed at Aggie Memorial Stadium. Install new scoreboard(s) for football.

Pan American Center- ADA and Arena Improvements \$ 350,000

Provide recommended ADA improvements for the basketball and volleyball arena. This is the first step required to begin a Phase I renovation for the entire Pan Am Center, including luxury areas to generate revenue and increase attendance to games and special events. Remove the screen walls on the north and south ends of the Pan American Center.

Pan-Am Center Renovations- Mezzanine Club and Suites \$ 3,500,000

Enhance overall experience with new mezzanine club and suite level to modernize venue amenities and boost revenue support.

Softball Stadium Lighting \$ 575,000

Provide lighting improvements that focus on the bullpen and third base areas. Additional lighting will allow the ability to play night games and host tournaments in the stadium.

Stadium Press Box- Visiting Athletics Director's Suite \$ 150,000

Replace the roof on the Stadium Press Box, create a Visiting Athletics Director's Suite. Provide carpeting, walls/windows, new paint and electrical. This function is critical to the recruitment of a new conference for the Aggie Football Team.

Memorial Stadium Press Box Roof \$ 250,000

Replace the roof on the Stadium Press Box.

Softball Stadium Facility- Seat Backs \$ 250,000

The softball facility is in need of improvements, including office and locker room facilities. Completion of this project would increase attendance of fans and elderly supports.



Capital Outlay

NMSU – Alamogordo

New Mexico State University

2022 Capital Outlay Request

NMSU-Alamogordo Mechanical Ductwork and Boiler Feed Lines Classroom Building

2022 Request: \$160,000
University Commitment: \$25,000
Total Project Cost: \$185,000
NMSU-Alamogordo Priority: 1

NMSU-A is requesting \$160,000 to plan, design, construct, renovate, furnish and equip improvements to the Classroom Building at the New Mexico State University-Alamogordo. Alamogordo institutional funds for design match funding is \$25,000. Total Project Cost is \$185,000.

Project Description:

The scope of work will include:

- Demolition and replacement of approximately 19,000 linear feet of copper and 40 radiators.
- Installation of a new energy efficient boiler.
- Demolition and replacement of all air distribution ductwork and vents throughout the building.

Project Rationale:

The Classroom Building is 19,190 GSF, and built in 1968 (52 years old). This is the primary building for general classrooms serving all students. It contains labs, offices, study space, and serves all programs at the campus. The reliability of the mechanical components is critical to a fully operating heating and air-conditioning system. If this project does not receive funding, the heating and cooling system will continue to deteriorate until the equipment and infrastructure can no longer support occupant comfort and building use.

Language for appropriation: To plan, design, construct, renovate, furnish and equip improvements to the Classroom Building at the New Mexico State University-Alamogordo.



New Mexico State University

2022 Capital Outlay Request

NMSU-Alamogordo Classroom Building Infrastructure

2022 Request:	\$650,000
University Commitment:	\$25,000
Total Project Cost:	\$675,000
NMSU-Las Cruces Priority:	2

NMSU-A is requesting \$650,000 to plan, design, construct, renovate, furnish and equip infrastructure improvements to the Classroom Building at the New Mexico State University- Alamogordo. Alamogordo institutional funds for design match funding is \$25,000. Total Project Cost is \$675,000.

The Classroom Building (CB) is 19,190 GSF, and built in 1968 (52 years old). The building houses classrooms, labs, offices and study space. The Classroom Building serves all programs at the Alamogordo campus.

When the building was constructed in 1968, it was the only structure on campus. It housed everything including faculty and staff offices, classrooms, science labs, and a library. Through the years new buildings were needed, and the CB/Administration building was re-purposed and modified. The library, the faculty offices, and the science labs were eliminated, and more classrooms were added. The Administration offices were expanded to accommodate the growth.

The plumbing lines are deteriorated to the point of collapsing. Concrete that runs the perimeter of the building is crumbling, and rebar is exposed and causing trip hazards. The electrical infrastructure is outdated and not adequate to support classroom technology.

Proposed language: \$650,000 to plan, design, construct, renovate, furnish and equip infrastructure improvements to the Classroom Building at the New Mexico State University- Alamogordo.



Capital Outlay

NMSU – Carlsbad

New Mexico State University

2022 Capital Outlay Request

NMSU-Carlsbad Information Technology and Other Infrastructure Upgrades

2022 Request:	\$750,000
University Commitment:	\$250,000
Total Cost:	\$1,000,000
NMSU-Las Cruces Priority:	1

General Description

NMSU is requesting \$750,000 for the upgrade and replacement of Information Technology Infrastructure, and network equipment, and other infrastructure upgrades at the New Mexico State University- Carlsbad.

Scope of Work

The scope of work will include:

- Electrical Infrastructure replacement
- Temporary power to buildings. Generator or turbine during construction
- Upgrade and replacement of data center, computer systems and equipment
- Campus infrastructure and classroom technology
- Information Technology and Infrastructure Upgrades to include the much needed electrical infrastructure work. This will require temporary power to the building, generator or turbine during the project.

Proposed Language

\$750,000 to plan, design, construct, renovate, furnish and equip improvements to buildings and infrastructure at NMSU - Carlsbad in Eddy County.



Capital Outlay

NMSU – Doña Ana

New Mexico State University

2022 Capital Outlay Request

NMSU Dona Ana – Classroom and Lab Renovations

2022 Request:	\$ 1,500,000
University Commitment:	\$ 1,500,000
Total Cost:	\$ 3,000,000
NMSU-Las Cruces Priority:	2

NMSU Dona Ana is requesting \$1,500,000 for the renovation to selected instructional areas at all DACC sites, including room configuration, furniture, room finishes, and instructional equipment guided by a Classroom Renovation Master Plan. Recommendations per the DACC Master Plan 2018 - Technology Systems.

Upgraded & Alternative Classroom Systems

- In order to supplement the current DACC standard classrooms it is recommended that a select number of upgraded and alternative classrooms be provided as well. These classrooms would use much of the same A/V equipment as the standard classrooms but would also include additional specialty equipment to allow the classrooms to be used for lecture capture (i.e. lecture recording) or small group collaboration purposes.
- Classrooms upgraded to provide lecture capture functionality would enable instructors to record their lectures into distributable file packages containing live video of the lecture, lecture slides, instructor dialog (via microphone), and presentation audio. Adding this functionality to a standard DACC classroom would require:
 - A high-definition video camera (preferably a motorized pan-tilt-zoom camera) to capture video of the lecture.
 - A wireless microphone to capture the instructor's dialog even if the instructor moves away from the teaching station.

East Mesa Campus is DACC's primary campus. The East Mesa Campus opened in fall 2003 and occupies a 60-acre parcel on Las Cruces' east mesa. The East Mesa Campus currently has about 200,000 gross square feet (GSF) of facilities housing and about 1,300 student FTEs.

The Espina Campus at NMSU is the oldest DACC campus, located on 15.5 acres on the southwest edge of NMSU's campus in Las Cruces. The Central Campus has ~233,000 GSF and is at its planned capacity serving about 1,400 student FTEs. All academic divisions offer programs at this site.

Other satellite centers in southern part of the county that offer occupational education and lower division university courses are:

- Gadsden Center. This center was occupied in 1999 and has about 32,500 GSF of permanent facilities.
- Sunland Park Center. This center was completed and occupied in 1996, and has about 32,500 GSF of permanent facilities.
- Chaparral Learning Center opened in 2012 and contains about 10,800 GSF of facilities. Customized training and small business development are predominantly offered at the 32,000 GSF Workforce Center in Las Cruces. Adult Basic Education (ABE) is offered at all DACC locations and at community sites



New Mexico State University

2022 Capital Outlay Request

throughout the county. Community education is offered at the East Mesa Campus and various other locations in Las Cruces.

Language for appropriation: \$1,500,000 to plan, design, construct, renovate, furnish and equip classroom improvements at New Mexico State University- Dona Ana Community College.



Capital Outlay

NMSU – Grants

New Mexico State University

2022 Capital Outlay Request

NMSU-Grants Martinez Hall Roof Renovations

FY22 Request: \$1,200,000
Total Cost: \$1,200,000
NMSU-Grants Priority: 1

NMSU-Grants is requesting \$1,200,000 to plan, design, construct, renovate, and equip upgrades and roof replacement to Martinez Hall at New Mexico State University-Grants. Martinez Hall Renovations include a complete replacement of the existing roof.

Project Description

The Walter Martinez building is utilized by all students and employees. This Grants campus building functions as classroom space for students and office space for staff and faculty. The original building was constructed in 1976 and houses classrooms, laboratories, administrative offices, staff offices, the library, an auditorium, and a cafe. All instructional academic programs utilize this building, and these upgrades will benefit the entire enrollment and all employees.

The existing roof is in need of replacement. This project will provide a completely new roof for a more energy-efficient roofing system that improves the appearance of the facility and extends the life of the building. Protecting the asset with a new roof enhances all academic programs on the Grants campus.

Good stewardship of the institution's resources is noticed by current and prospective students and is expected to contribute to recruitment and retention efforts in a positive way. Good facilities in good condition are expected in a state institution of higher learning.

Language for appropriation: To plan, design, construct, renovate, and equip upgrades and roof replacement to the Martinez Hall at New Mexico State University-Grants.



Capital Outlay

NMDA

New Mexico State University

2022 Capital Outlay Request

NMDA Building Renovations Phase 3

2022 Request:	\$10,500,000
University Commitment:	\$6,500,000
Total Cost:	\$31,500,000
NMSU-Las Cruces Priority:	1

Project Background

NMSU is requesting \$10,500,000 to plan, design, construct, renovate, furnish and equip renovations, additions, demolition and new construction to the agriculture district at New Mexico State University- Las Cruces. The Ag Modernization project was originally planned as three GO Bond cycles. Phase one and phase two have been funded. The currently situation has labs working with petroleum products, fertilizer products, and pesticides adjacent to each other in the same building which creates a dangerous situation and an immediate safety hazard. The solution is to separate the petroleum lab and the chemistry labs. Statutory requirements mandate the continuous operations of the State Chemistry, State Seed, Petroleum Standards, and Metrology Laboratories during construction.

Phase 1 (Funded from GO Bond 2018) project included:

Biomedical Research Building- Phase 1 (\$11,913,600)
Food Science Learning & Safety Center (\$8,207,900)
Feed Milling & Processing Facility/Maintenance Facility (\$3,128,500)
Other Renovations, Infrastructure & Demolition (\$1,750,000)

Phase 2 (Proposed-Funded from GO Bond 2020) project included:

ACES Student Learning and Livestock Outreach Center (\$12,000,000)
Animal Physiology & Metabolism Facility (\$5,400,000)
Equine Paddocks & Arenas (\$670,000)
Water Conservation & Rangeland Ecology Facility Greenhouse (\$650,000)
Biomedical Research Building- Phase 2 (\$9,945,000)
Other Renovations, Infrastructure & Demolition (\$2,835,000)

Phase 3A Project Description:

Phase 3 of the NMDA building renovations would include, design and construction for replacement of main building, design, abate and demolition for main building, new construction for main building replacement and administrative facility to house 60+staff.

Project Rationale:

The NMDA building renovations aligns with the university's mission and vision for NMSU's success. NMSU LEADS 2025 identifies enhancing student success, interdisciplinary research, outreach, and modernization as priorities.

Language for appropriation: To plan, design, construct, renovate, furnish and equip renovations, additions, demolition and new construction to the agriculture district at New Mexico State University- Las Cruces.



Non-Instruction & General Project Requests

FY 22 NMSU Non I&G Budget Request				
(\$ in thousands)				
Program	FY21 Reg. Ses.	FY21 Sp. Ses.	NMSU Request	NMSU vs Sp. Ses.
AGRICULTURAL ENTITIES				
Agricultural Experiment Station (AES)	15,148.6	14,542.7	14,542.7	0.0
Cooperative Extension Service (CES)	13,735.3	13,185.9	13,185.9	0.0
Department of Agriculture	12,596.2	12,092.4	12,092.4	0.0
Athletics	3,949.1	3,712.2	3,712.2	0.0
Educational Television	1,054.3	991.0	991.0	0.0
RESEARCH AND PUBLIC SERVICE PROJ.				
Carlsbad - manf sector development prgm.	232.9	218.9	218.9	0.0
Carlsbad - nurse expansion	108.9	102.4	102.4	0.0
Dona Ana - nurse expansion	293.5	275.9	275.9	0.0
Dona Ana - dental hygiene program	306.0	287.6	287.6	0.0
Veterans Services	50.0	47.0	47.0	0.0
STEM alliance for minority participation	318.0	298.9	298.9	0.0
College assistance migrant program	205.8	193.5	193.5	0.0
Arrowhead center for business dev.	343.9	323.3	323.3	0.0
Nurse expansion	900.2	846.2	1,062.4	216.2
Sunspot Solar Observatory Consortium	273.0	256.6	256.6	0.0
Water resource research institute	1,131.9	1,064.0	1,064.0	0.0
Mental health nurse practitioner	1,000.0	940.0	940.0	0.0
Manufacturing sector dev. prgm.	674.6	634.1	634.1	0.0
Alliance teaching & learning ad.	155.9	146.5	146.5	0.0
Indian resources development	277.9	261.2	261.2	0.0
Sustainable Ag Center of Excellence	250.0	240.0	240.0	0.0
Autism Program	614.0	577.2	577.2	0.0
Anna Age Eight Institute	874.0	821.6	821.6	0.0
TOTAL	54,494.0	52,059.1	52,275.3	216.2

NON I&G REQUESTS

Agricultural Programs

Agricultural Experiment Station

College of Agricultural, Consumer, and Environmental Sciences

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2021

FY 21 Actual: \$ 14,542,700

FY 22 Request: \$ 14,542,700

Change: \$ 00

Mission: NMSU's Agricultural Experiment Station (AES) is the principal research unit of the College of Agricultural, Consumer and Environmental Sciences. The AES system supports fundamental and applied science and technology research to benefit New Mexico's citizens in the economic, social, and cultural aspects of agriculture, natural resource management, and family issues. The AES system consists of scientists who work on NMSU's main campus and at off-campus Agricultural Science Centers (ASCs) around the state.

Agricultural Science Centers

- Alcalde
- Artesia
- Clayton
- Clovis
- Corona
- Farmington
- Las Cruces (Fabian Garcia, Leyendecker & Chihuahuan Desert Research Center)
- Los Lunas
- Mora
- Tucumcari



Our scientists develop research programs that address key needs identified by advisory boards and local stakeholders.

These facilities, located strategically throughout the state, provide research results that sustain and support New Mexico's diverse environmental, farms, ranches, forests and communities.

The research efforts in AES provide a major source of hands-on learning opportunities for undergraduate and graduate students while addressing the needs of the agricultural communities throughout the state. Past statewide impacts include: the establishment, expansion, and improvement of the chile industry; support of the pecan industry; and the establishment of the niche onion industry that account for 50% of the fresh market onions in the U.S. during June and July.

ACES Pillars for Economic and Community Development

Food and Fiber Production and Marketing

Water Use and Conservation

Family Development and Health of New Mexicans

Environmental Stewardship

Foundational Education and Training

The College of Agricultural, Consumer, and Environmental Sciences is an engine for economic and community development in New Mexico, improving the lives of New Mexicans through academic, research, and Extension programs.

Added Value to New Mexico



Over 30 public, private partnerships.



Strong relationship with Extension and education to create a loop between research and application.



Multi-state project collaboration. These projects allow NMSU researchers to collaborate with other ag researchers across the country to tackle regional and national issues.

Ongoing Research

- Agricultural **water use efficiency**
- Endangered/ sensitive species management
- **Cattle genetics to improve grazing**
- Improve forage quality/ range management
- Improved crop selection
- Soil-borne disease prevention
- **Food safety and nutrition**
- Product development and value-added agricultural products
- Medicinal plant uses
- Water quality and treatment

Research Impacts

- Alternative treatment for Bovine Respiratory Disease, which affects 20% of the US beef industry, could reduce the use of antibiotic use in food-producing animals and save the beef industry more than \$30 million annually.
- Grazing winter wheat decreases cattle's value. By optimizing protein NMSU researchers found that cattle weight gain increased by 0.20 lb/day, an increase in profit of about \$30 per grazing period for each head.
- Alfalfa herbicide management supports New Mexico's most valuable cash crop with annual gross of nearly \$197 million (2018).
- Water is a scarce resource in New Mexico and proper water management is essential to continued agricultural industry in the state. Researchers at NMSU are identifying more drought tolerant crops and finding ways to be more efficient with ground-water irrigation.
- Soil degradation is a significant challenge for sustainable crop production in NM. Croplands in the region have lost >50% of soil organic matter and nutrients leading to degradation in soil health and resilience. Cover cropping revealed an increase in soil organic matter by 18- 20% and microbial community size by 41% with cover crop integration than without a cover crop.



aces.nmsu.edu/aes • (575) 646-3125

New Mexico State University is an equal opportunity / affirmative action employer and educator. NMSU and the U.S. Department of Agriculture cooperating.

Cooperative Extension Service

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2021

FY 21 Actual: \$13,185,900
FY 22 Request: \$13,185,900
Change: \$0

The **MISSION** of NMSU's Cooperative Extension Service (CES) is to deliver practical, research-based knowledge and programs that improve New Mexicans' quality of life. A part of NMSU's College of Agricultural, Consumer and Environmental Sciences, CES is a unique federal, state, and county partnership.

CES Programs

Selected Accomplishments and Impact Statements

FOOD & FIBER PRODUCTION AND MARKETING

Trichomoniasis, a venereal disease of cattle, is known to reduce herd fertility resulting in devastating economic impacts. Since 2006, NMSU ACES CES has coordinated 130 Trichomoniasis control programs centered on producer education. As of date, less than 2% of 13,526 bulls tested positive for the disease. Extension targeted outreach and training have been successful in lowering the cases of Trichomoniasis.

NMSU ACES CES partnered with the Southwest Border Food Protection and Emergency Preparedness Center, NMSU School of Public Health, NM Farm Bureau and NMDA to provide information to frontline workers in agriculture. The collaboration developed the "Essential Produce Worker Protocol" to assist produce farmers with OSHA and CDC guidelines for agriculture workers. NMSU ACES CES and the NMDA developed extension articles addressing the needs of NM growers while working closely with the NM Livestock Board to provide online producer education.

NMSU ACES CES professionals across the state assisted local food banks with volunteer support and donation gardens. In addition, due to the shortage of seed supplies, NMSU Master Gardeners coordinated a tomato plant distribution program providing at least 2,000 plants across the state.

ENVIRONMENTAL STEWARDSHIP

Large and severe wildfires threaten lives, property, wildlife habitat, and watersheds. One way to mitigate wildfire threats is to use prescribed fire. Since 2014, NMSU Extension has trained 83 practitioners and conducted 6 training burns on 700 acres of private ranches. The forestry and fire research program provide managers with a demonstration area with over 10 years of data showing how thinning and burning treatments build forest resilience to insects, disease and wildfire.

Annually, wildlife is responsible for greater than \$1 billion in agricultural production losses and \$25 billion in losses to homes, businesses and municipalities, nationwide. NMSU ACES CES trains urban and rural New Mexicans to safely and effectively address wildlife damage issues in their homes, gardens, ranches, farms and communities using environmentally responsible methods.

WE ARE THE COOPERATIVE EXTENSION SERVICE



CES HAS STAFF IN ALL 33 COUNTIES AND MANY TRIBAL AREAS IN NEW MEXICO.



CES REACHES MORE THAN 500,000 MEMBERS OF OUR COMMUNITIES; 1/3 OF THE POPULATION MAKES CONTACT WITH CES.



CES COLLABORATES WITH OVER 1000 ORGANIZATIONS, STATE AND FEDERAL AGENCIES, AND OTHER UNIVERSITIES.



CES PARTNERS WITH MORE THAN 10,000 COMMUNITY VOLUNTEERS TO DELIVER STATEWIDE PROGRAMMING.



STATE INVESTMENT MATCH THROUGH COUNTY AND FEDERAL APPROPRIATIONS ALONG WITH GRANTS AND CONTRACTS.



CES IS INTEGRATED WITHIN THE COLLEGE OF AGRICULTURE, CONSUMER AND ENVIRONMENTAL SCIENCES.

CES EDUCATIONAL PROGRAMMING FOCUS



ECONOMIC AND COMMUNITY DEVELOPMENT



HUMAN NUTRITION



AGRICULTURE



ENVIRONMENTAL STEWARDSHIP



CHILD AND FAMILY DEVELOPMENT

CES Programs

Selected Accomplishments and Impact Statements

FAMILY DEVELOPMENT AND HEALTH OF NEW MEXICANS

According to the American Diabetes Association, diabetes and prediabetes cost an estimated \$2 billion in New Mexico each year. Approximately 241,120 people in New Mexico, or 14% of the population, have diabetes. In addition, a reported 25% of children and teens are overweight. NMSU ACES CES partnered with HealthInsight to offer the National Diabetes Prevention Program (NDPP) an evidence-based, lifestyle intervention program facilitated by a trained lifestyle coach through the Centers for Disease Control and Prevention. NDPP is a free year-long lifestyle change program for people with pre-diabetes or having risk factors for developing diabetes. CES reaches more than 200,000 citizens annually through workshops on nutrition, parenting, and physical fitness. CES Nutrition Education Program participants improved nutrition practices by 86%, diet quality by 75%, physical activity by 69%, and saved the state \$10 million in health-related expenses.



Ideas for Cooking and Nutrition (ICAN) is a NMSU ACES CES program funded by USDA's EFNEP and SNAP-Ed grants to provide nutrition education to limited-resource audiences in New Mexico. ICAN's mission is to inspire New Mexico's limited-resource families to make healthy food and lifestyle choices. In 2019, ICAN reached 105,000 adults and children across New Mexico, delivering face-to-face cooking demonstrations and nutrition education at over 350 locations statewide. After taking ICAN classes, 91% of adults make healthier food choices; 59% of children handle food more safely; and 70% of families conserve more food resources by cooking at home and planning before they shop. ICAN collaborates with 45 partner organizations to provide statewide education. Program staff and partners also visited 122 schools and youth organizations to deliver nutrition education to New Mexico's children. ICAN saves New Mexicans an estimated 10 million dollars by reducing future healthcare costs each year.

The COVID-19 pandemic has many people experiencing a significant amount of stress. To help with this, NMSU ACES CES created a statewide stress management web series. *Stress Management: Thriving in Today's Demanding World* provided information on resiliency, impacts of stress on the brain and body, positivity, and self-care.

NMSU ACES CES developed *Financially Navigating the COVID-19 Outbreak*, a four-part online series focused on financial assistance and guidance for individuals and families. The series highlighted the financial impacts of COVID-19 to the average household/family, how to access state and federal stimulus and emergency funds, and how to create a spending plan to maximize current income and savings.

YOUTH DEVELOPMENT

The NMSU ACES CES Youth Ranch Management Camp was designed to address the decline in students preparing for careers in the agricultural industry. Hosted at the CS Ranch in Cimarron, NM the camp encourages career exploration through a series of week-long experiential learning opportunities. CES specialists, agriculture agents, and ranchers in the industry have provided instruction to over 237 students.

While youth across the state are engaging online with their teachers, NMSU ACES CES 4-H Agents have been actively involved in maintaining programming across the state with the 33,000 enrolled members. 4-H has an educational focus on STEM, healthy living, citizenship, and leadership.



FY21 Total Appropriation:	\$ 12,596,200
FY21 One-Time Appropriation	\$ 1,800,000
FY21 Recurring Funding	\$ 12,596,200
FY21 Reduction by Special Session One-time	\$ 1,800,000
FY21 Reduction by Special Session Recurring	\$ 503,800
FY21 Recurring (Final)	\$ 12,092,400
FY22 Request:	\$ 12,092,400

NMDA is a producer-consumer service and regulatory department responsible for various statutes legislated since its inception. NMDA's mandate has changed over the years in response to changes in population, the needs of agribusiness, and technological advancements. NMDA remains committed to serving its constituents by periodically reviewing statutes and fee structures, as well as offering compliance assistance and education in an effort to maintain a safe and secure food supply, promote a fair marketplace, and secure our natural resources.

NMDA remains committed to expanding value-added agriculture in local, state, national, and international markets.

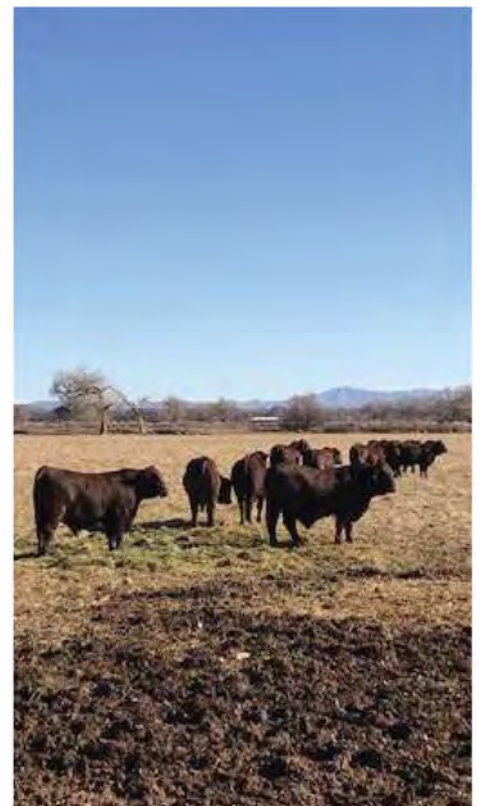
During the challenging times created by the COVID-19 pandemic, NMDA is committed to continuing to provide services to the state of New Mexico while continuing to operate at the FY21 budget level established by the 2020 Special Legislative Session.

VISION

NMDA benefits the public by promoting the viability and advancement of New Mexico agriculture and affiliated industries.

MISSION

NMDA promotes a fair marketplace, food protection, marketing, and economic development; supports the beneficial use and conservation of natural resources; and works cooperatively with the public and private sectors.



NON I&G REQUESTS

NMSU – Las Cruces

STEM Alliance for Minority Participation



STEM AMP

FY 21 Actual: \$298,900
FY 22 Request: \$298,900
Change: \$0

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Background of STEM AMP

Established in 1993, the STEM AMP program is a partnership of the state's two- and four-year colleges and universities, with a primary goal of increasing the number of STEM B.S. degrees awarded to underrepresented (URM) students in New Mexico. Funded by National Science Foundation (NSF), with support from the New Mexico Legislature and NMSU, STEM AMP helps prepare students for academia and industry. Managed by NMSU, the Lead Institution, STEM AMP supports students with stipends; research assistantships; professional development; and teaching, learning, and mentoring.



NMSU 2019 SCCORE Students on a Lab Tour

Program Rationale for STEM AMP:

- Change and development in the educational fabric of New Mexico facilitated through state-level contributions.
- Student retention in STEM accomplished through research programs, encouraging social mobility.
- Research-focused programs, creating opportunities for research studies that have implications globally and nationally.
- Economic and personal benefits of STEM AMP training, meeting the challenges of the STEM workforce.

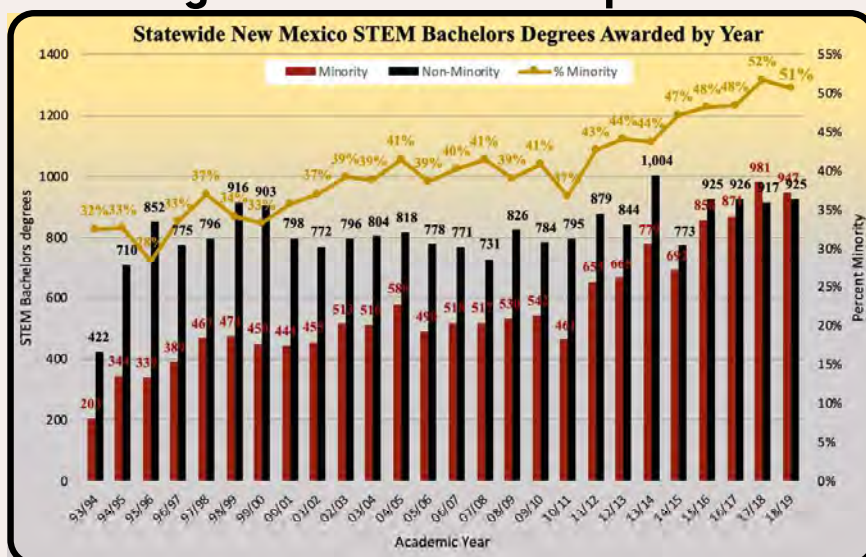
Student Success:

- **Megan Begay** is a URS participant and a rising senior in Environmental Geology at New Mexico Highlands University. Megan participated in a water quality analysis study of the Upper Pecos River through the Natural Resources Management Department at NMHU. Megan is continuing her study of the Upper Pecos River through the NSF-funded Partnership for Research and Education in Materials (PREM) program this summer.
- **Rachel Ridgeway** was selected for the highly competitive NSF Graduate Research Fellowships Program (GRFP). She is a former STEM AMP participant of the Summer Community College Opportunity for Research Experience, Transfer Stipend, and Undergraduate Research Scholar. Rachel served as a AMP Student Assistant and SCCORE Instructor. Rachel will attend the University of New Mexico in Fall 2020 in the Ph.D. Nanoscience and Microsystems Engineering Program.

Program Impact:

Resulting from STEM AMP and its collaboration with the many statewide STEM programs, there have been significant increases in the number and percentage of B.S. degrees earned by underrepresented (URM) students at the state's public 4-year universities. The numbers have risen from 203 (32%) in 1993-94 to 947 (51%) in 2018/19. We did a linear regression that showed that over the life of STEM AMP, the number of URM STEM degree recipients have grown by an average of 23 students per year, reflecting most of the growth of STEM degrees produced.

STEM Degree Production and Representation:



NOTE: In coordination with NMSU leadership and guidance, STEM AMP staff has completed training to become familiar with basic information about ways to limit the spread of COVID-19 in the workplace. Because of COVID-19, our summer programs were cancelled. Our programs will continue in Fall 2020, Spring 2021, and Summer 2021.

Our Programs

Undergraduate Research Scholars (URS) Program:

- Paid faculty-mentored research for students
- Professional Development Workshops

Summer Community College Opportunity for Research Experience (SCCORE):

- Statewide program at partner universities for 2-year students
- Benefits: stipend, housing, meals, professional development, & course

Annual Statewide Student Research Conference:

- The opportunity to present their research projects
- Participation in networking, workshops, and speaker meetings

Community College Professional Development Workshops:

- Pre- and post-conference workshops for community college students
- Students learn to navigate the conference, read abstracts, & plan transfer

Transfer Stipends:

- Community college students are eligible to apply for Transfer Stipends
- Advising and mentoring are provided after transfer

STEM PREP Program:

- University students are provided research exposure
- Students identify a faculty mentor & receive research training

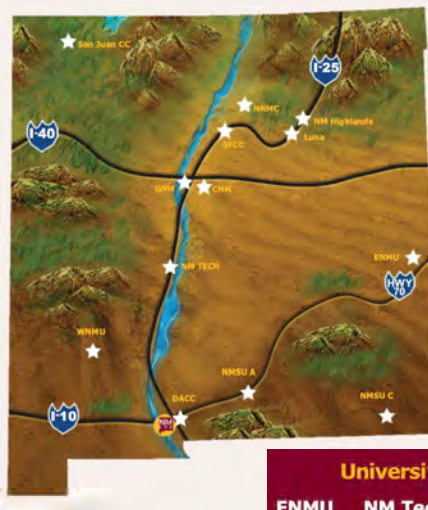
Book Stipend Awards:

- Offered in the fall semester as a recruiting tool
- \$300 per student for 5 students for each partner institution

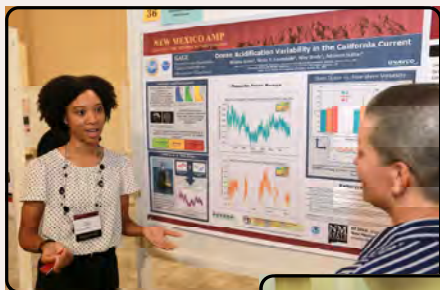
Student Advisory:

- Volunteer service to help Institutional Coordinators
- Institutions rotate participation

Partnership of STEM AMP for 2018-2023



Universities		
ENMU	NM Tech	UNM
NMHU	NMSU	WNMU
	NNMC	
Community Colleges		
Central New Mexico CC		
Luna CC		
NMSU-Alamogordo CC		
NMSU-Carlsbad CC		
NMSU-Dona Ana CC		
Santa Fe CC		
San Juan CC		



Brianna Green,
former New Mexico
Tech SCCORE, URS,
and Transfer
Student



2019 Annual STEM
AMP Student
Research
Conference



Andrea Loya Lujan, DACC
STEM AMP Student Advisor
and SCCORE Student

Our Accomplishments

- **STEM AMP has leveraged \$43.7 million in federal funding** through NSF, Department of Education, the Hewlett Foundation, industries, and institutional funding for student support projects. STEM AMP's primary focus is undergraduate research.

- **STEM AMP hosted a STEM Pathways and Research Alliance (SPRA)** meeting at NMSU, the lead Institution, with the purpose of networking, sharing social science/educational projects, and discussion of a follow-up conference. Twelve LSAMPS participated.

- STEM AMP, Growth Sector, & NSF-funded INCLUDES project at the University of Colorado Boulder are funding students at **Santa Fe Community College** to design & 3D-Print Personal Protective Equipment for the Navajo Nations/Pueblos (NMAMPPE Program).

- **STEM AMP developed three new programs:** 1) STEM PREP prepares students for research experiences, 2) Book Stipend Award serves as a recruitment tool, and 3) Student Advisory Board assists the leadership of STEM AMP to recruit, develop, and improve programs.

- **Approximately 1,500 statewide students** are impacted through outreach and programs. In FY20, STEM AMP graduated 71 statewide students.

- **Through the investment of effort and time**, STEM AMP has improved its database capabilities, resulting in more accurate reporting of data.



National Science Foundation
Grant Number HRD-1826758



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New Mexico State University

College Assistance Migrant Program (CAMP)



2021

BE BOLD. Shape the Future.

College Assistance Migrant Program (CAMP)

FY 21 Actual: \$193,500

FY 22 Request: \$193,500

Change: \$0

NMSU CAMP Mission

To serve the postsecondary educational needs of eligible farmworkers, dairy workers, and ranch workers across New Mexico by recruiting and retaining them until their graduation at NMSU.



NMSU CAMP Alumna, Sandra Martinez, is now a K-5th grade Visual Arts teacher in Columbus, New Mexico.

Successful Practices

CAMP provides farmworker students with individualized educational planning, academic advising, and financial assistance. It also provides book stipends, tutoring, mentoring, leadership conferences and multiple STEM workshops throughout their first year.

After their freshman year, students apply for limited book stipends and financial assistance for internships and other career related opportunities. CAMP helps students with resume writing, mock job interviews, job portfolio development, and career readiness.

All CAMP students have access to a CAMP computer lab, a study area, and laptops and graphing calculators.

Expansion funds will help further institutionalize our internship initiative, expand book stipends and scholarships, and provide more leadership, career readiness and professional development opportunities to CAMP students.



Fall 2019 Graduates in Aerospace Engineering, Psychology, and Criminal Justice

NMSU CAMP's Impact in New Mexico

- **70% of CAMP graduates are professionals in New Mexico** contributing to the State's workforce engine.
- NMSU CAMP fulfills NMSU's land-grant mission of serving **traditionally underserved populations across New Mexico**.
- Our outreach and recruitment occurs **across New Mexico high schools, reaching over 600 students** to determine eligibility. We visit families across rural communities, at college fairs, through our NMSU Cooperative Extension offices, and New Mexico farms, dairies, and ranches.
- NMSU CAMP students are mostly **Hispanic, first-generation college students**, and Pell grant recipients.
- NMSU CAMP was awarded a five-year grant from the U.S. Department of Education, Office of Migrant Education for **\$2,124,959** until 2022.
- State funds are imperative in **leveraging the nearly \$8 million awarded** in federal funding from 2002-2022.

CAMP focus on STEM-H

Since 2012, CAMP freshmen have been exposed to STEM programs at NMSU, in efforts to generate academic interest in the following:

- AMP (Alliance for Minority Participation)
- RISE (Research Initiative for Scientific Enhancement)
- HHMI (Howard Hughes Medical Institute)
- SEMAA (Science Engineering Mathematics and Aerospace Academy)
- Medicinal Plants Program. Six to eight CAMP students participate in this research internship each summer (when funding is possible)
- NMSU Civil Engineering Bridge Inspection Program (BIP). One to three CAMP students participate in this internship each summer (when funding is possible)



Summer 2019 interns in the research lab.



Summer 2019 Medicinal Plants Program Interns

NMSU CAMP peer mentors help retain students at NMSU

NMSU CAMP has a successful peer mentoring program: COMPAS (Cultivating Opportunities through Mentoring and Promoting Academic Success). First-year students are paired with CAMP upper-class students throughout their first year of college. COMPAS help freshmen with intensive advising, peer mentoring, tutoring, and overall peer guidance. This program works as a retention tool for both freshmen and upperclassmen.

Recruiting, retaining and graduating farmworker students since 2002: CAMP Quick Facts (as of May 2020)

- Recruited and served: Since 2002, 503 students have participated in NMSU CAMP including 90 sets of siblings.
- Graduated: A total of 215 students have graduated with a bachelor's degree, 35 with a master's degree, 2 with a Ph.D., 1 with a M.D., 1 with a J.D. and 49 have completed an associate's degree.
- Retained: 131 students are currently enrolled as undergraduates, 4 are working on a Master's degrees, 1 on an Ed.D., 1 on a Ph.D., and 1 on a J.D.
- NMSU CAMP retention rate for graduates and currently enrolled students is 69%. Freshmen retention rate for the academic year 2019-2020 was 100%, above our national CAMP freshmen retention goal.
- 30 freshmen from across New Mexico will begin their 2020-2021 academic year this Fall 2020.

Arrowhead Center for Business Development



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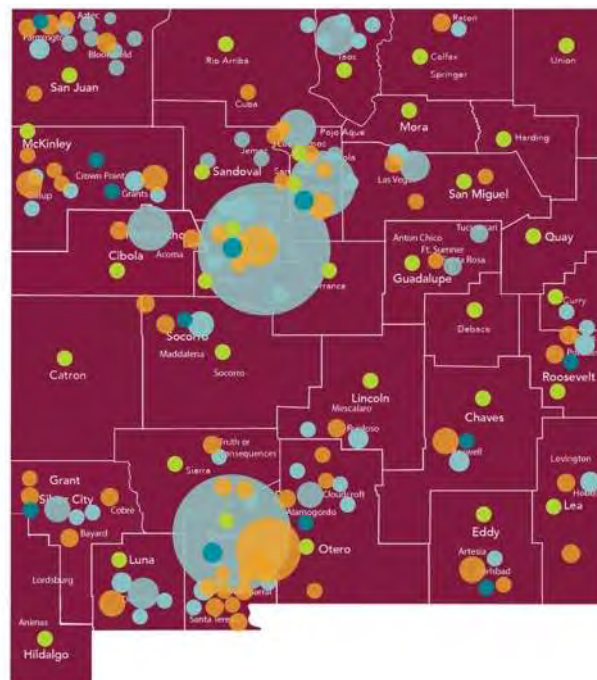
2021

FY 21 Actual: \$323,300
FY 22 Request: \$323,300
Change: \$0

Arrowhead Center (Arrowhead) at New Mexico State University (NMSU) plays a vital role supporting the state's entrepreneurial and innovation ecosystem, creating economic opportunity in New Mexico. Arrowhead builds capacity statewide by making available to individuals and firms the knowledge, skills, and resources they need to be successful in business creation and growth as well as technology commercialization. This results in favorable outcomes benefiting the state: new businesses and jobs, new products, increased investment, increased entrepreneurial skills (enhancing employability), and strategic public-private partnerships. Arrowhead serves NMSU faculty, staff and students as well as students (K-16), inventors, entrepreneurs and young firms statewide.

Map Legend

- Small Business Creation and Growth
- University Student Business Accelerators
- K-12 Entrepreneurship Programs
- Economic Base Studies



Economic Opportunity for New Mexico

Arrowhead enhances economic opportunity for all New Mexicans, ultimately bolstering the state's economy as a whole. We capitalize on New Mexico's unique assets and talent, while securing federal and private funding to support these strengths. This work helps to diversify the state's economy, ensuring we are poised to benefit from our opportunities, recover in the face of challenges, and demonstrate future resiliency.

- Arrowhead primes New Mexico's entrepreneurial and innovation pipeline with opportunities for the state's youngest innovators and potential business owners. We work with students from kindergarten through university, challenging them to build their ideas into ventures.
- Arrowhead makes entrepreneurship accessible to anyone, anywhere in New Mexico.
- Business acceleration programs offered virtually and outside of typical working hours open possibilities for those who may not have the time or resources to otherwise pursue their business ideas. This is reflected in Arrowhead's success working with populations traditionally underrepresented in entrepreneurship, such as women and ethnic minorities.
- Arrowhead works with existing companies to help them realize their full potential. Access to mentorship, educational resources, investment opportunities, and professional networks leads to more jobs, more revenue, and greater opportunities for growth and expansion.

Highlights FY 2019

274	New Direct Jobs
111	Businesses Accelerated
\$1.7 M	Awards from Sponsors
15,960	K-12 Students
548	NM University Student Ventures
\$254 M	Total Economic Impact

Tailored Assistance for New Mexicans

Arrowhead recognizes that each entrepreneur, innovator, and business venture is unique – particularly in New Mexico’s richly diverse population. We emphasize one-on-one support customized to the individual needs of our clients and the communities in which they live.

- Arrowhead operates programs targeting New Mexico’s most promising industries, such as value-added agriculture, healthcare, and recreation and tourism. At the same time, we are open to entrepreneurs and companies from any sector, supported by an extensive network of experts from an array of industries and disciplines.
- Arrowhead’s Sprint business accelerators blend cohort-based instruction with individualized mentoring sessions to make sure each participant gets the specific support they need to create or grow their business.
- Arrowhead provides personalized assistance to existing businesses, based on their individual needs. From feasibility studies, to product prototyping, to business model pivots to deal with unexpected challenges such as the COVID-19 crisis, Arrowhead serves New Mexico’s businesses with the tailored assistance they need to grow and thrive.



AgSprint Participants Fall 2019

COVID-19 Pivots and Assistance

Arrowhead Center, concurrent with the entire NMSU System, moved to remote operations in mid-March 2020 in response to the COVID-19 pandemic. Arrowhead pivoted both internal operations and client services to accommodate public health directives while ensuring that our programming remained accessible and relevant for clients. Some of these changes included:

- Creation of a COVID-19 resources webpage with easy access to virtual events, meetings, and consultations; region-specific news and services; and national resources for businesses.
- Shift of face-to-face programming (e.g., Innoventure K-12 entrepreneurship activities and women entrepreneurs networking meetups) to online platforms.
- Creation of a series of online videos to assist individuals and businesses moving to remote work and operations.
- Expansion of virtual business accelerator programs to support existing businesses and support new businesses, with emphasis on addressing COVID-19 economic challenges, including working with funding partners such as the New Mexico Economic Development and City of Las Cruces.
- Creation of a webinar series addressing digital marketing, web development, and social media.
- Pursuing federal funding opportunities (e.g., U.S. Economic Development Administration Coronavirus Aid, Relief, and Economic Security [CARES] Act) to bring resources to the State of NM.



Virtual Meetings and Webinars

Nurse Expansion

BE BOLD. Shape the Future.



2021

FY 21 Actual: \$846,200
FY 22 Request: \$1,062,366
Change: \$216,166

Overview

The **NMSU Nurse Expansion** initiative has increased the number of nursing graduates with a Bachelor of Science in Nursing (BSN) for clinical agencies in Southern New Mexico. This initiative supports the State of New Mexico's nursing workforce needs, but also addresses The Institute of Medicine's 2014 report, "The Future of Nursing," which calls for an increase in the number of BSN- prepared nurses across the nation. Nurse Expansion funding supports the hiring of qualified nursing faculty, implementation and evaluation of the nursing curriculum, clinical simulation learning and access to educational tools to support student success. The FY22 expansion request will support an increase in BSN program enrollment from 160 students to 172 admitted each year.

Increasing Access to Nursing Education in Rural NM Communities

The NMSU School of Nursing has satellite BSN programs at Alamogordo and Grants, NM. The NMSU-Alamogordo program accepts 24 new BSN students each year and the NMSU-Grants program accepts 8 new BSN students each year. Students attend classes through distance education classrooms and complete their clinical training at local hospitals and community health agencies. The School of Nursing hires full time nursing faculty and support staff at both sites and collaborates with community college advising to maintain the pipeline of qualified applicants for these programs. The community college campuses donate classroom and laboratory spaces, as well as resources and support for students and faculty.



Graduating Registered Nurses for New Mexico

- During the RPSP funding period (2005-2020), the School of Nursing has graduated over 2000 nurses
- Currently have 362 students in the BSN program
- BSN program retention rates are currently 88%
- National licensing exam first time pass rates are currently 86%
- 70% of those graduating from NMSU obtain their original RN license to practice nursing in New Mexico
- 40% of students are from rural counties in New Mexico
- 50% of students are first generation college students
- Admission preference to the NMSU BSN program is given to NM residents

Community Outreach

The NMSU School of Nursing faculty and students are active members of the Las Cruces, Grants and Alamogordo communities, providing consultation, education, health screening and immunizations to residents and community organizations.

- Faculty and students provide health screening at NMSU and community events (flu shot clinics, blood pressure, blood sugar, wellness checks) throughout the year.
- Faculty collaborate with and provide consultation to multiple community organizations including the Doña Ana Wellness Institute, Doña Ana Communities United, New Mexico Department of Health, New Mexico Alliance for School-Based Health Care, Adolescent and Young Adult Community Health Consortium, the US-Mexico Border Health Commission, local school systems, and community health clinics.
- Faculty and students provide wound care and injury treatment to participants in the Bataan Death March.
- The NMSU Student Nurses Association and the College of Health and Social Services Student Ambassadors Program are engaged in community service events and projects that impact the community in positive ways and provide students with additional nursing, public health, and leadership experiences.



Response to COVID-19

- Classes and clinicals were rapidly moved into an online learning environment
- All students training on COVID-19 pathophysiology, epidemiology, prevention and treatment.
- A safety place is in place to protect students and limit the rate of disease transmission
- The School of Nursing is prepared to train students in the laboratory and simulation setting if hospitals and other healthcare facilities close their doors to students due to COVID-19.



Sunspot Solar Observatory Consortium



2021

BE BOLD. Shape the Future.

FY 21 Actual: **\$256,600**
FY 22 Request: **\$256,600**
Change: **\$0**

New Mexico State University leads the Sunspot Solar Observatory (SSO) consortium in operating the world-renowned Dunn Solar Telescope and surrounding facilities that sit atop Sacramento Peak in Sunspot, NM. This is one of the preeminent places for studying the Sun. The project brings about \$1.2 million of revenue into the state annually. The National Science Foundation (NSF) provides 50% and NMSU, with commitments from the state of New Mexico, consortium partners, and grants, provides the other 50%.

This project strengthens the state's leadership in astrophysics and geospace research, enhances PhD student research and recruitment, improve a popular education and public outreach visitor center, and retain high-paying jobs in Otero County

The SSO oversees scientific and educational directives for the project, and its ongoing success depends on each consortium partner, including NMSU, to provide its own investment during operations. In FY22, we will continue to lead the SSOC, employ and train telescope personnel, provide for scientific and student research, employ and train STEM outreach personnel and organize STEM outreach events. State funding is used to enable NMSU to lead this project. All telescope personnel are NMSU employees and contribute to the mission of the university to serve the diverse needs of the state through education, research, extension, outreach, and public service.



Putting New Mexico at the Forefront

NMSU, together with the NSO and the NSF, lead the consortium of US and international universities and institutes dedicated to funding and operating the facility over the next decade.

This leadership places NMSU in a national forefront role in addressing the global challenges of space weather and solar astronomy, subjects of tremendous interest to NSF, NASA, DoD, and DoE.

This directly retains high-paying jobs in Otero County and provides indirect economic benefits to the local region. Beyond maintaining about 10 FTE at the site, annual meetings and workshops will bring over 100 week-long scientists into the area from out of state, and about 15,000 public visitors.



Research, education and jobs

The Sunspot Solar Observatory delivers

- A diverse consortium to operate the Dunn Solar Telescope
- An amplified outstanding reputation of New Mexico in cutting-edge research
- 10 FTEs in STEM jobs in Otero County
- A reinvigorated Sunspot Astronomy Visitor Center with new programs and attractions to boost tourism in Otero County
- Student training in areas of fundamental importance to the state's national laboratories
- Expanded outreach and education programs with NM public schools

Sunspot Solar Observatory Consortium

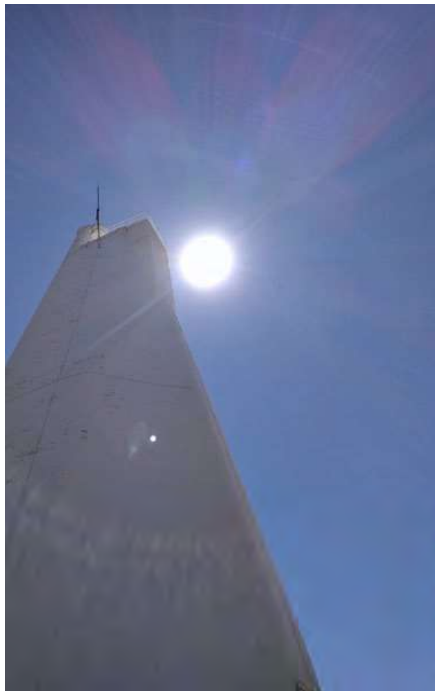
In FY22, with NM funds we seek to:

Lead the consortium: establish strong leadership in areas of science, education, instrumentation, and outreach to ensure broad interest from the solar physics community; Obtain sufficient financial commitment to allow for full operations and to establish scientific agreements with institutes that provide instrumentation at the telescope.

Employ and train telescope personnel: supply mission-critical staff to continue development of scientific and educational operation plans for the site.

Provide for scientific research: provide for graduate recruitment and retention opportunities and

Employ and train STEM outreach personnel: Lead this premier STEM visitors center for the public.



Sunspot Astronomy and Visitor Center

Due to strong public interest in astronomy and the many visitors to astronomy facilities, the Sunspot Astronomy and Visitor Center opened its doors on Sacramento Peak in 1997. It is the result of a collaboration between the NSO/Sacramento Peak, Apache Point Observatory, and the USDA Forest Service. The Visitor Center attracts about 15,000 visitors per year.



Leveraged funds

Located at Sunspot, NM, the Dunn Solar Telescope specializes in high-resolution imaging and spectroscopy that allows astronomers worldwide to obtain a better understanding of the Sun and how space weather impacts Earth. The Dunn telescope continues to provide a versatile and user-friendly set-up to investigate a range of solar activity and provides a testbed for developing cutting-edge technologies.

This project leverages \$600,000 of state and partner funding, matching the \$600,000 annual investment of NSF.

In leading this project, NMSU Astronomy has successfully won several other grants. In 2019, NSF awarded a \$1,449,022 5-year grant to NMSU to hire a new faculty member and provide for research start-up costs including graduate students. In 2019 a 3-year \$368,015 grant was awarded to NMSU from NSF, in addition to a \$212,000 grant from NSO, to fund additional student and postdoctoral research on solar filament eruptions.

In 2020, the availability of data from the DST led to two NASA grants totaling \$70,000 per year. One of these is to provide support data for the Parker Solar Probe instrument as it fly through the Sun's atmosphere. The second is become part of a major NASA research 'DRIVE' initiative lead by UCLA that will result in a second larger proposal to NASA in the fall of 2021. NMSU involvement in both these projects is only possible because of our leadership in SSO.

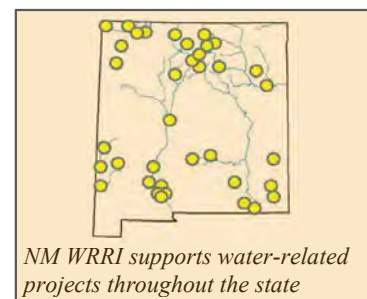
FY21 Actual: \$1,064,000 recurring

FY22 Request: \$1,064,000 recurring

Change: \$0

Water – the Grand Challenge Facing New Mexico

- State funding to advance WRII's mission to conduct research and disseminate knowledge that solves water resources problems
- Tap into the brainpower of the state research universities to make advances in critical areas of water-related research
- Support community and economic development
- Funded 99 projects supporting over 63 faculty researchers and at least 82 students across the state during FY16-FY20



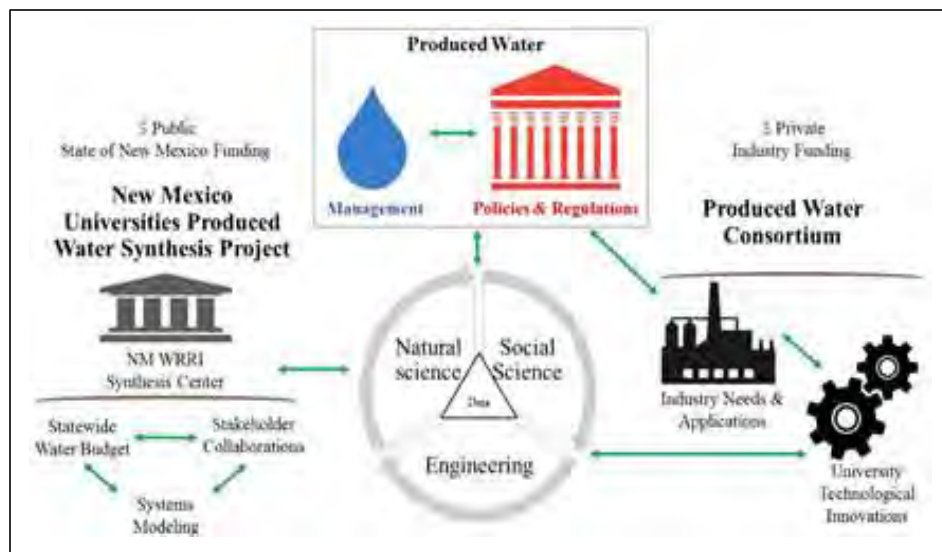
NM WRII supports water-related projects throughout the state

Meeting User Needs and Advancing Science with the Dynamic Statewide Water Budget (DSWB) and New Mexico Universities Produced Water Synthesis Project and the Community Hydrology Program

Funding will be used to respond to stakeholder needs for quantitative data using the DSWB. Funding would be used to address two pressing water issues facing the state: produced water, and ongoing challenges regarding surface and groundwater.

Meeting Stakeholder Needs

- Funds will be used for New Mexico Universities Produced Water Synthesis Project. NMSU leading the effort on produced water assessment, water and energy analysis, spatial data visualization, low-cost treatment, and reuse applications for agriculture, fracking, municipal supplies, and regional water agreements. This project will assist NM agencies with priority produced water issues.

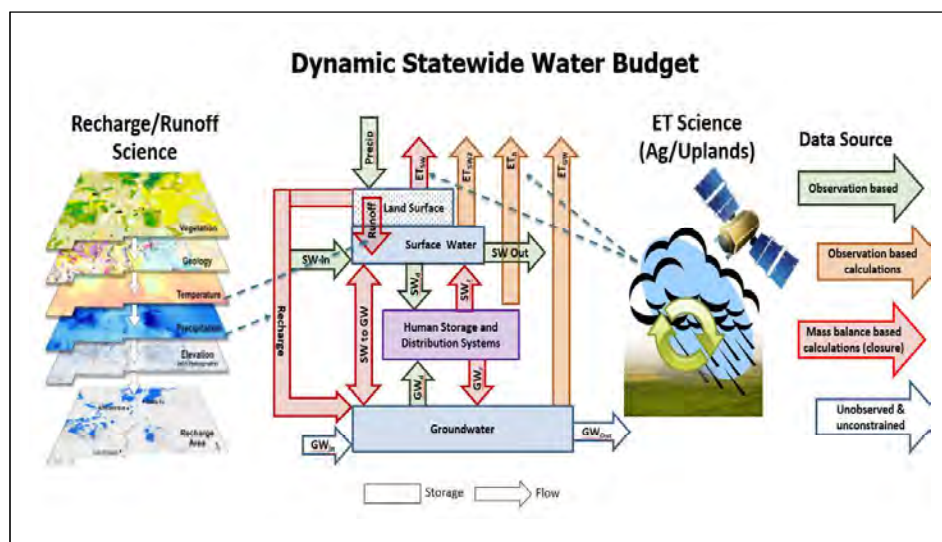


New Mexico communities: Water management of groundwater and surface water

- Funds will be used to support research on surface water and groundwater as communities continue to face issues related to water scarcity and drought. Areas of study will include the Upper Rio Grande, the Estancia Basin, and other critical sites.

Cutting Edge Science with the DSWB

- Funds will be used for the DSWB, an accounting model that includes future scenarios for population growth, Ag and M&I water-use efficiency, and management decisions for protecting water in NM.



Statewide Collaboration for the Dynamic Statewide Water Budget



DSWB RESEARCH COLLABORATION



FY16-FY20 Disbursement of NM WRRI Funding to New Mexico University Faculty

INSTITUTION	NMSU	WRRI/ NMSU	UNM	NM TECH	NMBGMR/ NM TECH	NMHU	ENMU
Total Dollars Awarded	\$403,956	\$574,888	\$145,712	\$244,628	\$237,014	\$31,420	\$26,072
Number of Projects	55	5	27	23	8	6	6

Some Recent Efforts by Students

- Water Quality Monitoring and Assessment of the Rio Mora
- Assessment of Disinfection Byproducts Formation in Algae-Treated Wastewater
- Developing a 2D/3D model of Improving Fertigation Scheduling
- Designing Optimized Produced Water Treatment Units
- Monitoring Toxic Metal Uptake by Corn Grown in Agricultural Fields
- Modeling Rainfall-Runoff Relationships
- Enhanced Water Recovery and Membrane Scaling
- Stable Isotope Analysis to Determine the Usefulness of Surface Water



A Long History of Solving

- WRRI established in 1963
- Federal support since 1964 (Water Resources Research Act)
- NM statutory authority since 2005 (NMSA 1978 21-8-40)
- \$1.2 million external funds generated in FY19



Informing Water Management for NM's Economy

Every sector of NM's economy, including jobs, education, culture, and health relies on available and good quality water.

WRRI trains students statewide who will lead NM's workforce.

Helps communities and water agencies better plan and manage water -

- Protect acequias
- Avoid lawsuits
- Save water with new crops
- Avoid water shortages
- Improve watersheds

Mental Health Nurse Practitioner

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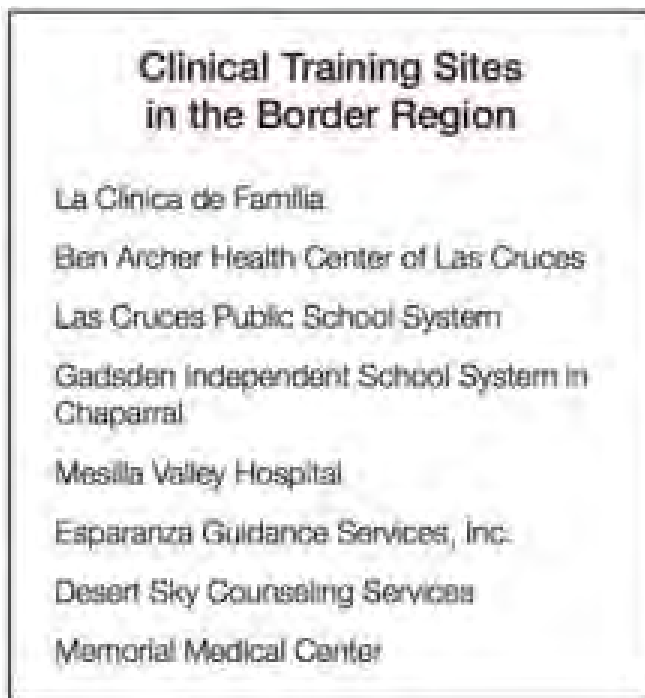


2021

FY 21 Actual: \$940,000
FY 22 Request: \$940,000
Change: \$0

Overview

There continues to be a critical need for mental health services in New Mexico, particularly in underserved and rural areas. Meeting those needs is a priority for the NMSU School of Nursing (SON). Funding from the Research and Public Service Projects has supported the Psychiatric Mental Health Nurse Practitioner (PMHNP) specialty track in the three-year Doctor of Nursing Practice (DNP) program. The School of Nursing also offers a post-graduate certificate for nurse practitioners in other specialties that, in one year, allows them to sit for the PMHNP certification exam. RPSP funds have been used to hire qualified faculty and student advisors, support innovative clinical training activities, provide professional development for faculty, and for student stipends. Many students in this program participate in clinical experiences in rural and other underserved areas throughout New Mexico. A new focus of the PMHNP program is opioid use disorder prevention, treatment and recovery.



PMHNP Program Accomplishments

- Doubled program enrollment in the past two years (currently have 56 students enrolled)
- Obtained \$1.5 million in federal training grant funding to support education and training in the area of opioid and other substance use disorder evaluation, treatment and recovery services.
- DNP students complete a scholarly project that addresses a patient-focused practice issue in psychiatric mental health care.
- Admission preference to the NMSU PMHNP program is given to NM residents

Leaders in Opioid Use Disorder Education and Training

The SON received a 3-year, \$1.35 million HRSA Opioid Workforce Education Program grant in September 2019 titled 'Expanding the New Mexico SUD/OD Treatment and Prevention Workforce through Interprofessional Education and Training'. This project is an interdisciplinary collaboration with the Counseling Education Psychology PhD and the Master's of Social Work programs. The overall goal of the project is to increase the number of professionals in the state of New Mexico, and in particular the Southern New Mexico counties, who are trained in interprofessional settings to effectively prevent and treat opioid use disorder (OD) and other substance abuse disorders (SUD) in community-based practices.



Leaders in Telemental Health Education and Training

The NMSU School of Nursing is one of the few health professional programs south of Socorro that has incorporated telehealth technology into the curriculum for all nurse practitioner students. Telehealth is the use of telecommunications technology to provide health care and patient health-related education at a distance. Telehealth improves health care service to remote locations or environments without clinic facilities. All nurse practitioner students are trained on the use of telehealth equipment and in telehealth delivery protocols. The NMSU School of Nursing faculty and students are actively engaged in delivering mental/behavioral health services to students at a school in Chaparral, NM using telehealth technology.



Manufacturing Development Sector

Aggie Innovation Space, Outreach and Economic Development



2021

BE BOLD. Shape the Future.

FY 21 Actual: \$634,100
FY 22 Request: \$634,100
Change: \$0

The Need

New Mexico is home to a growing manufacturing base driven by shifts in the global supply chain and the emergence of entrepreneurial and business start-ups. A report by Deloitte Consulting estimates that 3.5 million manufacturing jobs will likely be needed over the next decade, with 2 million positions expected to go unfilled. With the Southwest comprising the fastest growing region in the U.S., state leaders are aggressively pursuing manufacturing enterprises.

The Opportunity

1. Transform our educational programs to meet today's multifaceted learning environments, while preparing a highly competitive workforce.
2. Ensure laboratory equipment and educational facilities are state-of-the-art to support high-tech learning.
3. Expand outreach programming to accelerate economic development and entrepreneurship.
4. Enhance cross-disciplinary research opportunities.



Serving New Mexico

- Increased manufacturing-based education and activities.
- Entrepreneurship building among students and faculty
- Learning and research opportunities that promote economic development.
- Faculty-entrepreneur collaboration to design, build and test projects.
- Advance cutting-edge research with commercial value.
- Workforce-ready graduates to feed the advanced manufacturing workforce.

Working together for New Mexico

Community-based projects

- Personal Protective Equipment (PPE) manufactured and provided to Dona Ana County Emergency Management Operations for distribution (i.e. Las Cruces medical providers, Las Cruces Public Schools, Emergency Response personnel, Dona Ana Early Childhood Care program)
- Design and manufacture of disinfecting mister for COVID-19 response

Student capstone projects

- Retrofit of semi-trailer panels to accommodate unique freight requirements (Honeywell)
- Design and analysis of novel high-pressure blast tube (Los Alamos National Laboratory)
- Enhanced photovoltaic model efficiency through cooling (El Paso Electric Company)
- Ocean water temperature measurement (X2NSat)

Research and funded projects

- Degeneration of human eyesight: developed specialized machine for testing to minimize interaction from ambient light.
- Development of Wireless Soil-Moisture Sensors.

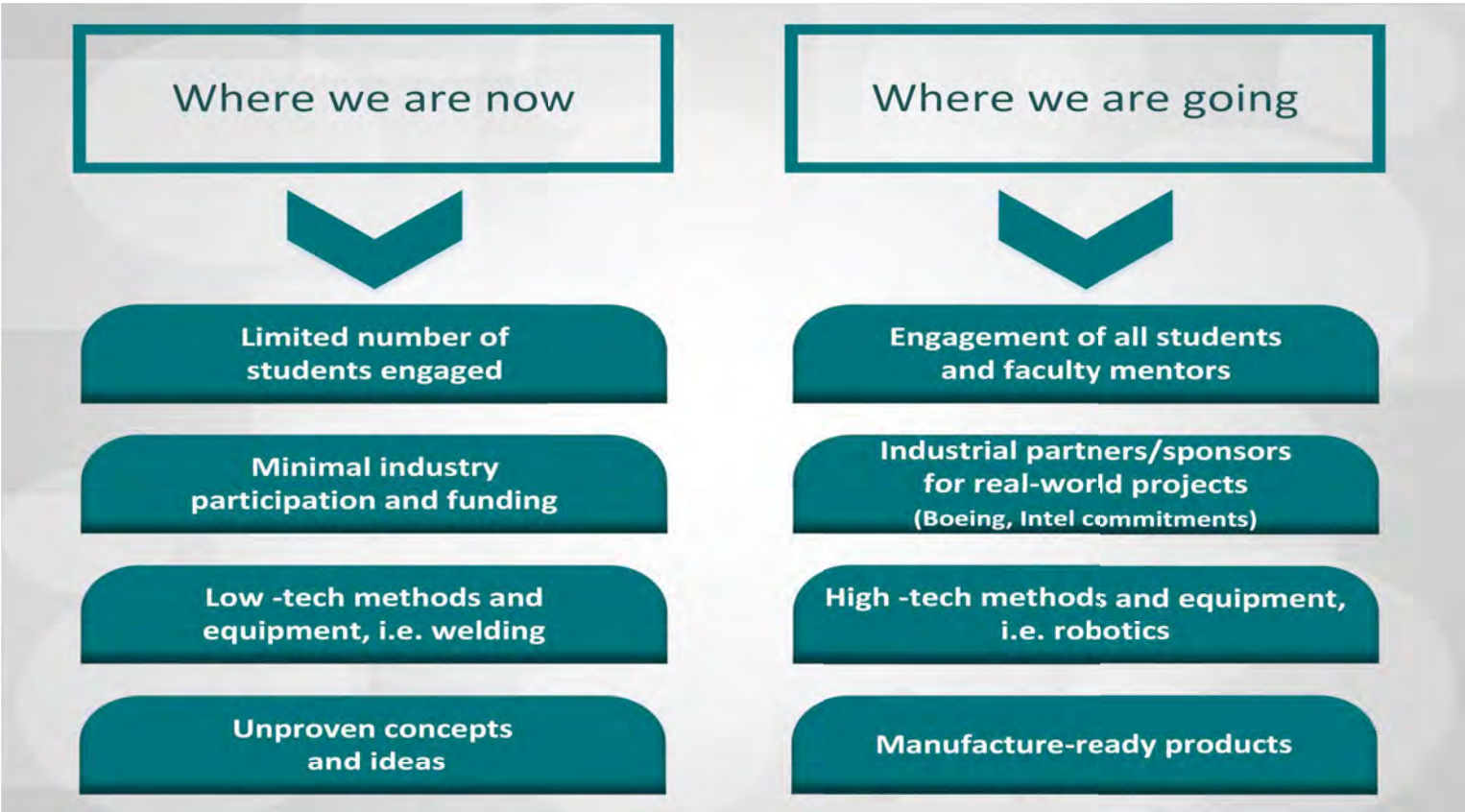
Workforce Development workshops and trainings

- 3D printing
- Solid Works
- Finite Element Analysis
- Engineering Drawings
- Computational fluid dynamics
- Python software
- Fusion 360
- MatLab
- Energy Efficiency
- Pollution Prevention
- Raspberry Pi

The Aggie Innovation Space went into high gear this summer, as students and staff produced face shields. Using a laser cutter, a thermal press, a sheet metal pneumatic shear and multiple 3D printers, engineering students and staff have made more than 500 face shields that have been donated to local hospitals and healthcare workers.



On the pathway to success



The Alliance for the Advancement of Teaching and Learning

FY21 Actual:	\$146,500
Request:	\$146,500
Change:	\$0

College of Education FY22

Dr. Rachel Boren (SOAR) rboren@nmsu.edu

Dr. Stacey Duncan (Educators Rising) stduncan@nmsu.edu

Alliance Goals

1. To **create a pipeline of new teachers** in New Mexico by serving as the state office for Educators Rising NM. The goal is to have the Educators Rising program established in 50 New Mexico schools by 2020.
2. To **increase partnerships** with existing NMSU STEM Outreach Programs, school districts, community agencies Regional Education Cooperatives, State agencies, and National agencies to support teacher recruitment, research and STEM Education in New Mexico.
3. To **increase the research capacity of the College of Education** through the Southwest Outreach Academic Research (SOAR) Center. SOAR provides research and internship opportunities for both graduate and undergraduate students from various disciplines. These students work with existing STEM programs to develop research plans, create data collection instruments, analyze data, write publications, give presentations and conduct program evaluations.

GOAL 1: Increase the Teacher Pipeline in New Mexico



Map of Educators Rising Districts

IMPACT OF EDUCATORS RISING 2019-2020

- 43 Active High School Chapters
- 600+ registered high school students
- 300+ students at 2020 State Conference
- 400+ total attended 2020 State Conference
- 29 Teacher Leaders trained
- 5 College Chapters: NMSU, ENMU, NMHU, DACC and Luna Community College
- New trainings planned for continued Teacher Leader support

Education Pathways Programs in NM

2015: 6	2020: 43
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<http://educatorsrisingnm.nmsu.edu>

Why Educators Rising?

New Mexico currently has a need for teachers, especially bilingual teachers, SPED teachers and teachers in rural areas.

The enrollment in Educator Preparation Programs throughout NM has been decreasing for over 10 years.

In an effort to reverse this enrollment trend and to support high school students who have a desire to pursue education as a career, The Alliance established the Educators Rising NM State office in 2015.

Educators Rising serves over 600 students enrolled in 43 active high school chapters across New Mexico plus five College chapters.

The Alliance has hosted five successful state student leadership conferences and supported student travel to the 2016, 2017, 2018, and 2019 national conferences.

The funds will be used to continue staffing an Educators Rising State Office as it continues to grow.

We will establish a regional support system for teachers and students throughout the state of New Mexico.

The Alliance for the Advancement of Teaching and Learning

Goal 2: Increase partnerships to support Teacher Recruitment in New Mexico

Alliance Partners: Outreach and Research				
Educators Rising Schools 2020		State & National Partners	Education and STEM Outreach	External Funding FY20
Alamogordo High School Atrisco Heritage Academy High School Aztec High School Bernalillo High School Bloomfield High School Career Prep High School Carlsbad High School Centennial High School Chaparral High School Clovis High School Clovis High School Freshman Academy Crownpoint High School Del Norte High School Deming High School Eldorado High School Farmington High School Floyd High School Gadsden High School Gallup Central High School Gallup High School Grants High School Hatch Valley High School Hobbs High School	Las Montanas High School Logan Middle/High School Lovington High School Manzano High School Mayfield High School Melrose High School Newcomb High School Onate High School Piedra Vista High School Portales High School Raton High School REC 9 Rio Rancho High School Sandia High School Santa Fe High School Santa Teresa High School Taos High School Thoreau High School Tohatchi High School V. Sue Cleveland High School Volcano Vista High School West Mesa High School	ENMU CNM UNM DACC NMSU WNMU NMHU Educators Rising NM Public Ed Department Anne E. Casey Foundation LANL Foundation	<ul style="list-style-type: none"> ECHO for Education Asombro Institute Bridge of Southern NM Learning Alliance New Mexico NMSU STEM Outreach Center NMSU Scientifically Connected Communities (SC²) NMSU Arrowhead Center-Innoventure NMSU Pre-Engineering Program (Prep) Math Snacks (NSF) NMSU Learning Games Lab New Mexico Coalition of Education Leaders NM Regional Education Cooperatives NMSU Cooperative Extension Service 	<p>Educators Rising:</p> <p>NMPED (\$35,000) CES NM (\$25,000) LANLF (\$22,000)</p> <p>SOAR:</p> <p>*National Science Foundation *Environmental Protection Agency *Kellogg Foundation *Paso del Norte Foundation *NMPED *Bridge of Southern NM *Over \$75,000 total</p>

Goal 3: Increase the Research Capacity in the College of Education



**SOAR: Southwest Outreach
Academic Research
Evaluation and Policy Center**

- **University Recognized Internal Service Center**
- **Employ graduate students and offer undergraduate internships**
- **Provide expertise in developing research protocols, instruments for data collection, data entry, qualitative and quantitative data analysis, producing reports, writing publications, presentations, and project evaluation services.**
- **Students have also published reports that have been used for policy making decisions**



We provide graduate and undergraduate students with hands-on research experience by assisting K-20 Education Outreach programs to close the Outreach-Research Gap.



Indian Resources Development Program

BE BOLD. Shape the Future.
New Mexico State University

2021

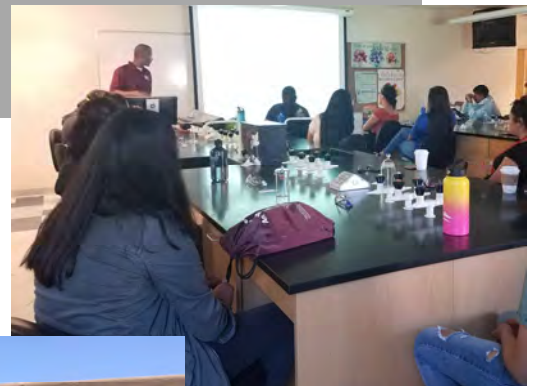
FY20 Actual:	\$261,200
FY21 Request:	\$261,200
\$ Change	\$0



The Indian Resources Development (IRD) program began in 1977 when NMSU was awarded a W.K. Kellogg Foundation grant to encourage Navajo students to pursue degrees in agriculture and business. Before the grant expired, the New Mexico State Legislature approved the Development of Indian Resources Act (1978) which:

- a) Continued the objectives of the Kellogg Foundation grant;
- b) Expanded the scope of participants to include all New Mexico tribes and expanded the disciplines to include engineering sciences, natural resources, and economic development;
- c) Provided an annual budget to IRD.

IRD carries out its mission by connecting Native American students in New Mexico with opportunities for education and internships in the fields of agriculture, natural resources, engineering, and business; and promoting self-directed and self-sustaining economic development and management of resources by NM tribes.



Indian Resources Development Highlights

- Provide New Mexico high school students, and their families, with informational resources that could guide their exploration of higher education in New Mexico.
- Offer camps, research experiences, and internships as career exploration opportunities.
- Support college students in finding internship and on-the-job placements that help them acquire job experience and technical expertise.
- Present students and families with potential sources of financial aid.
- Support New Mexico tribal entities in developing their agricultural, natural, recreation, and business resources, and associated technical and managerial expertise, as a way to promote their economic development.
- Invites tribal, education, and industry leaders to meet with students to discuss education paths, career opportunities, industry trends, and leadership approaches.
- Leverages capital, human, academic, and cultural resources by identifying potential partners that could help achieve the mission of IRD of being a state-wide program that:
 - offers educational and professional development opportunities for Native American students, and
 - supports NM tribes in developing their own technical and managerial expertise in agriculture, natural resources, engineering, and business.



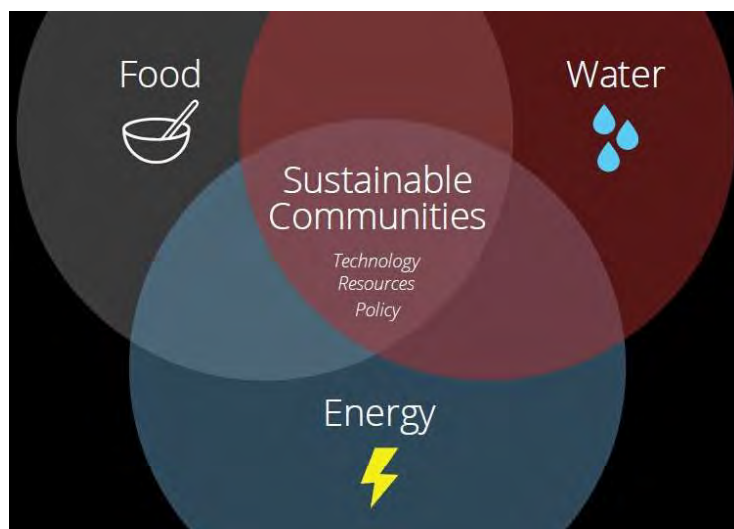
NM Native American high school students from New Mexico in the 2019 Dream Keepers summer camp

FY 21 Actual: \$ 240,000

FY 22 Request: \$ 240,000

Change: \$ 0

Mission: NMSU's Center of Excellence in Sustainable Food and Agricultural Systems (CESFAS) will be the leader in building a vibrant agricultural economy by conducting innovative, trans-disciplinary, collaborative research that facilitates and develops strong food and value-added agricultural businesses. The center will also provide interdisciplinary training and education to students to give value-added industries highly-skilled, workforce-ready employees. In partnership with industry, the CESFAS will help meet the complex challenge of feeding a growing global population using fewer natural resources.



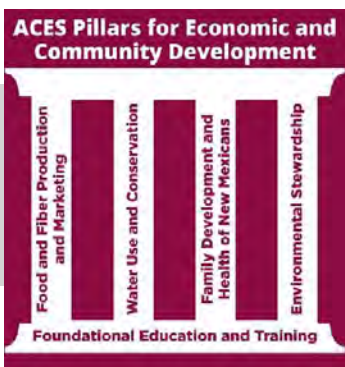
Emphasis Areas

- Adapting to Climate Variability
- Agriculture and Culinary Tourism
- Artificial Intelligence in Ag/Big Data
- Food Safety & Food Security
- Food, Ag and Natural Resources Policy
- Hemp Industrialization
- Nutraceuticals and Functional Foods
- Produced & Brackish Water Utilization
- Science & Ag Literacy and Consumer Education
- Soil Health
- Specialty Meat and Produce Markets
- Sustainable Water Systems
- Value-added Agribusiness & Ag Business Supply Chain

CESFAS GOALS

- Increase the state's value-added processing industry.
- Develop sustainable food supply chains and reduce/eliminate food deserts currently occurring in the state.
- Sustain New Mexico's vibrant food and agricultural systems long into the future.

The accomplishment of these goals will help make CESFAS a vital asset in New Mexico's recovery from catastrophes such as the COVID-19 pandemic and natural disasters.



The College of Agricultural, Consumer, and Environmental Sciences is an engine for economic and community development in New Mexico, improving the lives of New Mexicans through academic, research, and Extension programs.

Center of Excellence in Sustainable Food and Agricultural Systems

2019 - 2020 ACCOMPLISHMENTS

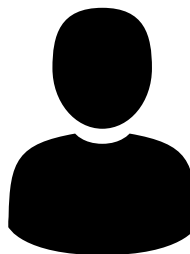
- Created 3 new faculty positions



Dr. Martinez-Monteagudo
Food Bioprocessing



Dr. Sabillon Galeas
Microbial Food Safety



Hiring in process
**Water for Sustainable
Food Systems**

- Developed 4 transdisciplinary, inter-college research teams
- Established contributing faculty partners website
- Submitted \$20 million grant proposal for Artificial Intelligence in Agriculture
- Developing CESFAS Advisory Committee



Awarded \$70,000 seed grant for *"Investigating Robotic Technology for Sustainable Chile Production and Harvest in New Mexico"*

POTENTIAL IMPACTS



SUSTAIN HUMAN
COMMUNITIES AND
THE ENVIRONMENTS
IN WHICH THEY LIVE



DEVELOP AND
EXPAND
VALUE-ADDED
AGRIBUSINESS



CREATE
JOBS



DEVELOP
WORKFORCE
READY
GRADUATES

New Mexico's agricultural industry provides nearly \$3 billion to the state's economy, second only to the gas and oil industries. Most of New Mexico's agricultural products, however, are shipped out of state for processing before returning to New Mexico as consumer-available products. **Processors in other states are profiting from New Mexico's agricultural producers** and the lack of extensive value-added industries in New Mexico agriculture. In order to build a vibrant and sustainable food and agricultural industry in New Mexico, state-of-the-art value-added industries must be developed. **CESFAS, established at NMSU in 2019, is a critical component in New Mexico's ability to build and sustain a viable food and agricultural system to feed the population and to grow the state's economy.**

aces.nmsu.edu • ngoldber@nmsu.edu • (575) 646-4944

New Mexico State University is an equal opportunity / affirmative action employer and educator. NMSU and the U.S. Department of Agriculture cooperating.

NMSU Autism Diagnostic Center

BE BOLD. Shape the Future.



2021

FY 21 Actual: \$ 577,200
FY 22 Request: \$ 577,200
Change: \$ 0

Purpose

The purpose of the FY21 funding is to **operate** an Autism Diagnostic Center (ADC) in southern New Mexico. The purpose of the FY 22 funding is to **expand** diagnostic services for individuals referred for an Autism Diagnosis. The NMSU-ADC will address the need for a timely diagnosis for individuals with Autism Spectrum Disorder (ASD) in southern New Mexico.

Wait times for families seeking ASD evaluation are among some of the longest in the nation and range from 9 to 24 months. Given the rise in the incidence of ASD and long wait times to access diagnostic services, one center is not sufficient to meet the needs of the state. The NMSU ADC will reduce the current backlog at the UNM-CDD and increase diagnostic capacity in the southern region of the state by providing quality and timely evaluations. Children in the area suspected of having ASD can now be evaluated closer to their home and readily access services that will help improve their quality of life and achieve meaningful outcomes.



INCIDENCE OF AUTISM SPECTRUM DISORDER

- 2000 **1 in 150**
- 2016 **1 in 54**

Incidence of ASD is rapidly increasing – the need for early intervention by qualified practitioners, is critically needed in New Mexico. <https://www.cdc.gov/ncbddd/autism/data.htm>

Statement of Need

1. Need to **decrease diagnosis wait time**. At present, New Mexico has only one state funded autism diagnostic center, the Autism Spectrum Evaluation Clinic (ASEC). The ASEC, located in Albuquerque, New Mexico, has been unable to meet the increasing demand for its services. Currently there is a **two-year wait time** for initial diagnosis.
2. Need to maximize **intervention outcomes through early intervention**. Evidence-based intervention research clearly reveals that the greatest positive intervention outcomes for individuals with autism occur when intervention is offered as early as possible. A diagnosis of autism is now possible as early as six months of age. Positive treatment outcomes could be drastically reduced due to postponed diagnosis.
3. Need to offer **more local services**. Decentralizing autism diagnostic services for individuals in southern New Mexico will offer more efficient patient/practitioner/intervention specialist collaboration and therefore better patient care.
4. Need to **offer relief to ASEC**. Dona Ana is the second largest county in New Mexico in terms of population density. Providing autism diagnostic services in Dona Ana County will potentially relieve the two year wait list for ASEC and therefore serve the state's needs in autism diagnosis as a whole.

Background

ASD is a neurodevelopment disorder that impacts a person's communication, behavior and ability to function, and ranges from a total inability to form meaningful communication and social interactions to functional but limited social communication and interaction.

- ASD diagnosis is derived from behavioral observation
- ASD behaviors vary widely along a spectrum of behaviors
- ASD behaviors change with development and intervention

Diagnosis

Intervention services for an individual with ASD begin with a comprehensive diagnosis. The diagnosis serves two essential purposes:

1. Identifies the individual as eligible for third-party insurance including the state Medicaid program.
2. Identifies the individual's strengths and weaknesses in order to develop a comprehensive ASD intervention plan.



NMSU Chancellor, Dan Arvizu with graduate Speech-Language Pathology clinical trainees in action.

A team comprised of Clinical Psychologists, Speech-Language Pathologists, Social Workers, and other professionals will make the NMSU-ADC a vital force in our region's efforts to diagnose and refer for treatment, individuals for an autism diagnosis.

CONTACT INFORMATION

Autism Diagnostic Center

Communication Disorders Department

Web: <https://cd.nmsu.edu>

Email: adc@nmsu.edu

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Denise M. Sanchez, M.A, CCC-SLP Speech-Language Pathologist
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Anna Age Eight Institute

BE BOLD. Shape the Future.



2021

FY 21 Actual: \$821,600
FY 22 Request: \$821,600
Change: \$0

The problem: Adverse Childhood Experiences (ACEs), trauma, and social adversity lead to costly challenges including mental and medical health problems, substance misuse, low educational achievement, and lack of job readiness.

The solution: Research shows that access to vital services can prevent and mitigate ACEs and social adversity. We work with communities to ensure that 100% of residents have access to 10 vital surviving and thriving services

Where we work: we are currently working in the counties of Dona Ana, Socorro, Rio Arriba, San Miguel, Otero, Valencia, and Taos Pueblo.

How we work: We use the frameworks of Continuous Quality Improvement, Collective Impact, and Adaptive Leadership. The work in a county begins with an assessment of access to 10 vital services in a community using our 100% Community survey. Local action teams ensure access to ten sectors through a process of Assessment, planning, action and evaluation.

Who we work with: We work at the county level with local stakeholders including city, county, and school staff, community members, private businesses, non-profits, and foundations.



Our institute's far-reaching goal is ensuring that our children, students and families are safe and thriving.

The Anna, Age Eight Institute was funded by the New Mexico state legislature in 2019. Our institute's far-reaching goal is ensuring that our children, students and families are safe and thriving. To achieve this we're using a data-driven process focused on building the capacity of local government, non-governmental agencies and the business sector to provide the surviving and thriving services that community members need to strengthen health, safety and resilience.

MANY CRISES, ONE SOLUTION

The institute utilizes the 100% Community initiative to prevent childhood trauma. The 100% Community initiative is also a useful strategy to address access to services during a pandemic and economic disruption. We have worked to support local leaders across the state in providing the services coined "services for surviving and thriving." Our goals and activities are guided by data and research, and are urgently needed across New Mexico as we recover from a pandemic, assess our systems of care, and face a complex economic downturn with high rates of business closures and joblessness.

THE PLAN

New Mexico has, with the 100% Community initiative, a data-driven, cross-sector and technology-empowered plan of action that provides each county with a way to navigate the colliding crisis of COVID-19 and economic downturn. Instead of guesswork or relying on old ways of doing things, we have provided a path forward to ensure all residents survive and thrive. We have the framework to guide all cities and counties through a collaborative and data-driven process. We have the expertise in technology to enhance all our vital services to increase quality and reach.

Calendar

- July 2020-
Readiness training for
San Miguel County
and Taos Pueblo
- August 2020-
Socorro County
Readiness training
- August-October 2020-
San Miguel 100%
Community Survey

ANNA, AGE EIGHT

NON I&G REQUESTS

NMSU – Carlsbad

Carlsbad Manufacturing Sector Development Program

FY21 Actual: \$ 218,900
FY22 Request: \$ 218,900
\$ Change: \$ 0

NMSU Carlsbad has utilized monies through the Manufacturing Sector Development Program (MSDP) to provide workforce training opportunities.



Carlsbad and Eddy County are realizing a dire shortage of trained personnel that can move into career and technical education fields and serve our population. To assist in meeting this need, NMSU Carlsbad has used allotted funds to enhance its

program of offerings to both high school and regular college students in the areas of automotive trades, drafting and graphics, electronics, facilities maintenance, manufacturing, industrial maintenance mechanics, welding, and building trades. The students are required to complete Work Keys, an instrument that provides an analysis of the students' aptitude and suitability for various careers. An example of the success of these programs is the building projects accomplished by the Construction Trades Vocational Program which partners with the Carlsbad Development Corporation (a local non-profit) to provide affordable housing for low to moderate income residents and thus improve the community's quality of life. The industrial maintenance program continues to expand its state apprenticeship participation.



Purpose of MSDP

- The project will provide trained professionals prepared to work in the potash industry.
- The Industrial Maintenance Technician program is the only degree of its kind in New Mexico and the degree was developed in direct collaboration with Intrepid and Mosaic potash.
- Recently, this program completed the application process and was granted apprenticeship certification through the state.
- Also, at risk students both in high school and college will be provided opportunities to learn the essential skills related to demand trades. Trained welders are in extreme demand in southeastern New Mexico and Carlsbad and Eddy County are experiencing housing shortages.
- The MSDP program will include funding requests to increase the number of welding professionals and also to implement a testing facility whereby local welders can complete their welding tests to meet state requirements.
- The building trades program has completed eight houses and they have begun work on the ninth house. The prior seven houses were sold at rates based upon the candidate's affordability.

MSDP Accomplishments: Training for the Workforce in NM

1. Two certificates and one Associate of Applied Science degree proposed for Oil and Gas Industries;
2. Apprenticeship program requirements submitted and approved for the Welding and Industrial Maintenance Technician programs;
3. Ten new building trades and welding students were accepted into the state apprenticeship program;
4. Welding test site established to assist local welding industries in meeting industry standards;
5. Implementation of NMSU Carlsbad as a NCCR- approved welding facility;
6. Completion of one house this year which was sold as affordable housing to citizens who could not buy a home by any other means;
7. Participation of the welding students in the state Skills USA contest;
8. Use of Work Keys to determine career pathways for vocational students;
9. Initiation of two new certificate programs in gas compression technology and introduction to the oil and gas industry;
10. Increased student participation with seventy-five additional workforce students and an increase of twenty-five students graduating from workforce programs.

Carlsbad Nurse Expansion

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2021

FY 21 Actual: \$102,400
FY 22 Request: \$102,400
Change: \$0

Nursing expansion funds allow NMSU Carlsbad to continue offering student nurses the best possible education experience. New Mexico continues to experience a severe nursing shortage and it is imperative that colleges and universities provide a well prepared and competent cadre of nurses each year that are ready to move into the workforce and fulfill healthcare needs. The salaries earned by these nurses make a significant contribution to the City of Carlsbad, Eddy County as well as the New Mexico economy. NMSU Carlsbad is dedicated to ensuring that our nursing curricula are the epitome of best practices and that nurses are appropriately trained and prepared for the National Council Licensure Examination. To this end, nursing expansion

funds have been dedicated to the payment of some nursing salaries at the high school level to recruit and introduce nursing program offerings to students in high school and dual credit programs. Additionally, monies will be used for retention of current and future Nursing Faculty. The lack of nurses moving toward nursing education is, and will, continue to be a challenge. Retaining and recruiting qualified competent faculty is vital to the state nursing shortage. Without nursing educators, there cannot be nurses. This proposal seeks continued funding to support initiatives that assist in the preparation and graduation of competent nurses for clinical agencies throughout New Mexico, and especially those in rural and underserved areas.



Carlsbad Nursing Outcomes and Accomplishments

- **100% NLCEX-PN licensure pass rate** (National Council Licensure Examination-Practical nurses)
- **NCLEX-RN licensure pass rate >90%** for 2018, 2019 and 2020.
- **Ranked #3 in the state of NM for top rated Nursing Schools in 2019**
#3 Ranked Nursing Program in New Mexico:
<https://www.registerednursing.org/state/new-mexico/#top>
- **100% employment of ADN graduates** in 2018, 2019 and 2020
- **Full Accreditation Commission for Education in Nursing** (ACEN) through 2027.
- Two full-time faculty members at **Artesia and Carlsbad High schools** with dual credit enrollment.
- Complete nursing aide labs at **Carlsbad and Artesia High Schools**
- State of the art simulation lab

Working to Reduce the Nurse Shortage

The vision of the nursing program at NMSU Carlsbad is to reduce the nursing shortage and meet statewide goals through:

- Facilitation of the educational preparation of the Associate degree in Nursing (ADN) and certification in Licensed Practical Nursing (LPN)
- Collaborative community partnerships
- Supporting school career pathways
- Faculty retention and development
- Improving retention of nursing students
- Increasing program completion

The project will address each of the listed goals through a variety of initiatives and successes will be measured throughout

NMSU-Carlsbad School of Nursing



NMSU Carlsbad desires to continue its efforts in addressing the severe shortage of nurses in New Mexico. The proposed project will stress initiatives aimed at increasing nursing student admission and decreasing nursing student attrition. Additionally, dual credit initiatives will be stressed at Artesia and Carlsbad high schools to increase the recruitment of high school graduates entering the nursing program of study. The project will increase intervention strategies aimed at retaining students recruiting and retaining qualified nursing faculty. All faculty will continue to complete professional development activities and training to further facilitate more student admissions and provide specific student guidance throughout.

Producing Employees for the New Mexico Workforce

As in many regions of the United States, a nursing shortage, an aging nurse population, and a decreasing amount of nursing educators, continues to be realities in New Mexico. The nursing program at NMSU Carlsbad needs to remain a major contributor to the healthcare workforce in New Mexico and needs to continue to produce highly qualified nurses in every type of clinical setting. Because many NMSU Carlsbad graduates who earn their ADN go on to earn their BSN or higher degrees, and stay in New Mexico to seek employment, this program is extremely vital to addressing the nursing shortage issues in the region and the state. A rigorous, and evidence-based curriculum and reputation for excellence in preparing students for the workforce make NMSU Carlsbad's ADN program a sought-after program of study; however, many of the students applying to the program are under-prepared and retention is therefore a critical issue. Part of the retention effort is to begin preparation of future nursing students by offering dual credit course work to high school students. The project at NMSU Carlsbad will emphasize nursing programs for high school students and thus start these students on the pathway to a career in nursing and allied health. Also, the NMSU Carlsbad project will stress retention of nursing students through various intervention strategies, and recruit and retain qualified nursing education faculty. As a result of these initiatives, a greater number of nurse will graduate from NMSU Carlsbad.

NON I&G REQUESTS

NMSU – Doña Ana

FY21 ACTUAL: \$275,900
FY22 REQUEST: \$275,900
CHANGE: \$0

Quick Facts

- Recently received recommendation for continuing Accreditation with (ACEN) Accrediting Commission for Education in Nursing March 2020.
- 2019 Pass rates for NCLEX (National Council Licensure Examination) RN 96.55%; LPN 100%
- Graduation rates 85%.
- 100% of graduates gainfully employed within 6 months of licensure.
- 40 Associate Degrees & 18 LPN Certificates in Nursing awarded 2019-2020.

Plans for Future Growth:

- Expand enrollment/cohort size from 16 to 20 and then to 24 each semester.
- Admit (3) times each year
- Expand Simulation to include Virtual Simulation
- Simulation & Lab Equipment Replacement
- Faculty Professional Development



The New Mexico Department of Education designated Doña Ana County as an appropriate site for an area for a vocational-technical school designated in 1965. On July 1, 1973, the institution became an official entity and began offering vocational training programs on September 4, 1973, as the Doña Ana County Occupational Education Branch of New Mexico State University.

Since then, the DACC Nursing Program has provided accessible nursing education to students of diverse backgrounds equipping them to provide excellent community health care and nursing workforce demands.



- Funding will continue to support faculty salaries, continue differentials salaries, and support recruitment and retention efforts. The funding will also help continue to increase cohort sizes each semester. The costs for classroom and clinical supplies will be supported with funding.
- Funding will support the purchase of Virtual Simulation experiences that will help students complete clinical practicum requirements in lieu of the challenges presented by COVID-19 that resulted in students not being able to enter health care sites for clinical experiences. Additionally, updating the current lab and simulation equipment for the program will ensure that the program is better equipped to run more in-class simulations, which increases student-learning outcomes and helps meet the clinical requirements.



DENTAL HYGIENE PROGRAM



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2021

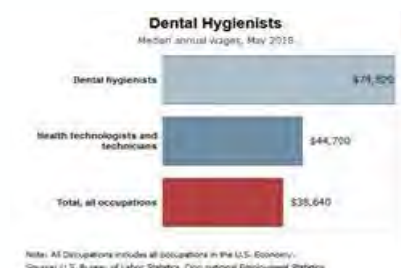
FY 21 Actual: \$287,600
FY 22 Request: \$287,600
Change: \$0

- The DACC Dental Hygiene program was established in 2007. Its first graduating class of 12 hygienists was in 2009. The Program has graduated over 120 dental hygienists who usually stay and work in Southern New Mexico or other areas in New Mexico.
- The program operates an on-site dental clinic open to the public where students, under faculty supervision, practice the craft of clinical dental hygiene while providing access to dental hygiene services to the community.
- The Dental Clinic is operated in support of the DACC Dental Hygiene Associate degree program. The clinic, operating since 2008, ensures that entry-level dental hygiene students gain practical experience in a controlled, clinical setting.
- The clinic provides low cost dental care for citizens who do not have access to dental care or who do not have insurance to access dental care.
- On average, the clinic provides low cost services to over 600 patients yearly and reaches over 3000 individuals through community outreach. The clinical hours prepare the students for the licensure exam required to become Registered Dental Hygienists. The vast majority of patients served by the clinic are uninsured or underinsured individuals from low income families or are students on limited budgets from DACC or NMSU.
- People of all ages receive educational, preventive and therapeutic services such as: oral and general health assessments, oral cancer screening, dental examinations, dental radiographs, oral health instruction and counseling regarding nutrition and health life-style and their impact on oral and general health.



OUTLOOK FOR DENTAL HYGIENE

- Because the Commission on Dental Accreditation (CODA) requires that dental hygiene students receive their training under the direct supervision and control of the Program, an on-site clinic is required.
- In addition, the DACC Dental Clinic is shared with the DACC Dental Assistant Program where students learn to work chair-side with practicing clinicians.
- The Program collaborates with other agencies such as Las Cruces Public Schools, Amador Health and Ben Archer Clinics to improve access to oral health care services for patients at risk and those with no resources.
- The DACC clinic helps to expand the services provided by other county public health agencies with the goal to improve the overall health of the county's citizens and thereby help reduce time lost from work and school due to oral/dental disease.
- The US. Bureau of Labor Statistics reports that the demand for Dental Hygienists will grow 11% from 2008 to 2028, much faster than the average for all occupations.
- The demand for hygienists is increasing as state laws allow dental hygienists to work at the top of their training.



Quick Facts

- **100% pass rate on clinical board examinations.**
- **90-95% Avg. National Board pass rate within the last 3 years.**
- **100% Employer Satisfaction on returned satisfaction surveys.**
- **100% employability within 12 months after graduation.**
- **92% Retention and Graduation**
- **100% Student Participation in clinical activities to improve access to care in Southern NM.**

Growing Stronger!

- **Opened first Free School Based Dental Clinic at Lynn Community Middle School.**
- **Partnering with Amador Health Center and DACC Gadsden to provide more opportunities for students' skills development and community engagement.**
- **Coordinate an International Service Learning program.**
- **Coordinate an annual "Happy Smiles" free clinic for children.**

NON I&G REQUESTS

NMSU – Grants



NMSU Grants Student Veterans Resource Center

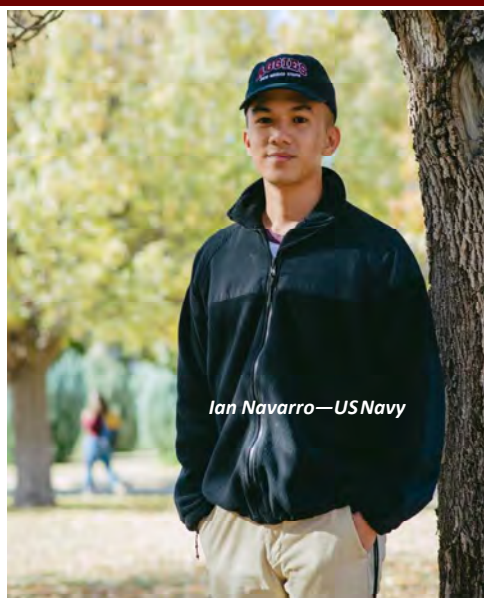
FY 21 Actual: \$47,000 (recurring)

FY 22 Request: \$47,000 (recurring)

\$ Change: \$0



Angela Meyer, Coast Guard Dependent



Ian Navarro—US Navy



Courtland Tyler—US Army

NMSU Grants is requesting funding for Year 2 of the Student Veterans Resource Center (SVRC) on the Grants campus.

Year 1 focused on the physical space for the Student Veterans Resource Center (SVRC) located in Martinez Hall. We now wish to focus on the Year 2 goal of staffing our Center.

We will hire a Veteran to provide direct assistance to our student veterans and their dependents in the areas of VA benefits, certifying their enrollment with VAOnce, providing ongoing support and supervision of the Center and ensuring student veterans are aware of all student services offered by the campus.

With Year 2 requested funding in place we will be able to leverage support to identify an existing student with Veteran's benefits as a Veteran Work Study in the Center. This student be a part-time employee. Funding will be 100% through the Veteran Administration Work Study program.

It is our goal that all student veterans and dependents will be contacted monthly by student services staff and that all Veteran and dependent students will receive support to assist them in meeting satisfactory academic progress at the end of each semester. Their success is our success!

Our outreach efforts will center upon collaborating with the northwest region Veterans Outreach Specialist and involvement in community events

for Veterans, consulting with the NM Department of Veterans Services for best practices in supporting our Veterans, and accessing available resources for Veterans and Military families.

NMSU Grants is currently receiving financial support from the New Mexico Legislature to create and establish a Veterans Resource Center for our campus. We have secured the space for the Veterans Resource Center in Martinez Hall, on the NMSU Grants campus.

The Veterans Resource Center is strategically important to serve an already underserved population in northern New Mexico.

Statistics:

158,994 Veterans in New Mexico

16,354 Women Veterans in New Mexico

7,450 Veterans under the age of 30

Minority Veterans make up approximately 23% of the total Veteran population

New Mexico VA Education Beneficiaries (FY 17): 5,893

Veterans in Cibola County, NM: 1,742



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NON I&G REQUESTS

Athletics

Intercollegiate Athletics

FY21 Actual: \$3,712,200

FY22 Request: \$3,712,200

\$ Change: \$0

NMSU Athletics inspires student athletes to build **strong communities** and strives to be known for its integrity and commitment to its **student's academic and athletic success**.

The student population of approximately **400 student-athletes** contributes to the economy at a personal level by fulfilling their financial obligation as students and community members.

As team members, student athletes are provided a platform to grow as leaders, team players, and responsible and successful community members.

The contributions made by intercollegiate athletics include educating, mentoring, and the training of **future leaders** and providing on-the-job training to allow workforce ready skills acquired by the student – athlete.

NMSU sponsors 16 sports including 6 men's: football, basketball, baseball, golf, tennis, and cross country, and 10 women's sports: basketball, volleyball, softball,

soccer, tennis, golf, cross country, indoor track, outdoor track and swimming and diving. The 16 sports is the minimum number that is required by the NCAA to maintain Division I Football Bowl Subdivision status. The contributions made by intercollegiate athletics participation, demonstrates successful students with workforce skills acquired through their role as a student-athlete, student employee or graduate assistant. By providing hands-on and on the field experience, students are workforce ready when they leave NMSU, providing capable employees within the state and throughout the nation. The student-athlete population, contributes to the economy at a personal level by fulfilling their financial obligation as students and community members. Positive economic impact is also recognized at the state level through various team and individual activities.



Student Athletes

- Student-athletes were on pace to complete over **6,300 hours of community service** prior to Covid.
- All of our 16 NMSU Men's and Women's Athletic Sport Teams cumulative grade point averages combined over the last 14 years, 28 consecutive semesters, have achieved the accomplishment of being combined **at or above a 3.00 GPA**
- For the past 15 years, 30 consecutive semesters, Scholarship-Athlete representation (3.00 semester and cumulative GPA or higher) was higher than 50% of the student –athlete population
- Volleyball, men's basketball and women's indoor track all won **WAC Championships**.
- Volleyball competed at the **NCAA Championships**.
- Nine sports had their seasons end early due to Covid.



Athletics Objectives for Success

NMSU aims to continue to improve academically and competitively and give back through serving the community. Key project objectives include:

- Achieve NCAA Academic Progress Rate (APR) of 930 or higher for all NMSU Teams
- Enhance diversity among athletic staff and student-athletes
- Achieve recognition for all NMSU teams
- Win the WAC Commissioner's Cup to build loyalty and affinity by providing competitive teams
- Engage former student-athletes and alumni by holding various events around the state

Recent activities include:

- AAC exceeded the \$800,000 mark for the first time
- Nick Gonzales was drafted 7th overall by the Pittsburgh Pirates and Jason Huntley was drafted in the 5th round by the Detroit Lions.
- Megan Hart and Nick Gonzales were awarded the Joe Kearney Award. The Joe Kearney Award is awarded to the top female and male student-athlete in the WAC.
- Six Aggie teams posted perfect single-year APR scores
- 54 student-athletes graduated during the 2020 spring commencement ceremony
- NMSU Academic Support Programs and Services Center (ASPSC) continues to be committed to providing quality educational services that achieve academic, personal, and career success for all student-athletes

Athletics in Today's Financial Setting

NMSU Athletics continues to manage its financial situation. In doing so, the department has maintained its commitment to provide operating funds to its 16 sponsored sports. Increased costs, along with our geographic location have continued to place a strain on coaches and staff and have been consistent major challenges in managing costs. Part of recruiting and commitment to our student-athletes is the level of competition we provide them. Maintaining appropriate funding is necessary to allow the programs the opportunity to continue to meet obligations and provide a positive, safe and well-rounded experience for students participating as athletes.

NON I&G REQUESTS

Educational Television

Educational Television, KRWG

BE BOLD. Shape the Future.



2021

FY 21 Actual: \$991,000
FY 22 Request: \$991,000
Change: \$0

The KRWG complex is utilized by multiple NMSU educational departments as laboratory and classroom space. Additionally, KRWG engineering staff provides maintenance and repair services for the facilities that are utilized by these other NMSU departments.

KRWG plays an important role in meeting NMSU's promise as a land grant institution. KRWG offers a distinctively unique service to the region from New Mexico State University.

COVID-19 Response

In response to the COVID-19 crisis, KRWG collaborated with Albuquerque Public Schools, KNME TV and KENW TV to air 20 hours per week of K-5 educational programming statewide.

KRWG also aired 25 hours of grades 6-12 educational programming for secondary level students learning from home.

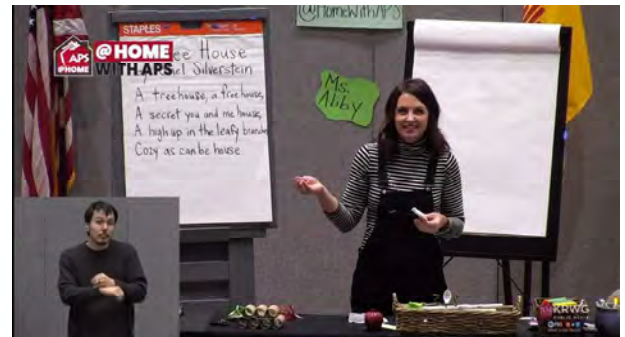
To support the health and safety of New Mexico citizens in our region, we created online resources that are central hubs for any COVID-19 related information.

Our partnership with PBS provided a wealth of COVID-19 related programming which aired and continues to air. This includes health information, the economic impact of the pandemic, coping strategies to deal with the isolation, and much more.

Our Mission

We strive to educate and engage community development by providing relevant news, a forum for open discussion, a celebration of the arts while preserving and conveying human and natural history.

K-12 @Home Educational Support



Health & Safety Information

CORONAVIRUS RESOURCES

Resource links,
video and more

CORONAVIRUS RESOURCES

KRWG CORONAVIRUS UPDATES

Updates from
KRWG News

CORONAVIRUS UPDATES



Coverage Area



KRWG TV covers a region roughly the size of West Virginia. We broadcast from the campus of New Mexico State University. Our signal extends west to Grant County, north to Sierra County and east to Otero County. As population and use of media changes, KRWG has made a commitment to continue to provide relevant services that will meet the needs of all of Southwestern New Mexico.

KRWG TV – Providing educational outreach to Southwestern New Mexico for over 45 years! KRWG TV – Providing educational outreach to Southwestern New Mexico for over 46 years!



Early Childhood Education Impact

KRWG airs high-quality early childhood educational programs an average of 10 hours a day on our main channel and 24 hours a day, 365 days a year on our PBS Kids sub-channel. This makes KRWG Public Media the largest Pre-K educator in the region.

Every year, KRWG TV provides over 10,600 hours of children's educational programming.

NMSU Impact

KRWG provides hands-on professional experience for university students resulting in post-graduation employment. KRWG student employees have gone on to work for local TV affiliates in El Paso, Albuquerque and even ESPN & NBC News. Experience gained at KRWG directly translates into careers for many students.

Regional Impact

KRWG provides 24-hour service of award winning children's programming, public affairs shows, cultural offerings and over 150 hours of local productions to serve the needs of viewers in our region.

Statewide Impact

In collaboration with KNME (Albuquerque) and KENW (Portales), we provide the only statewide television services. During a statewide emergency, public media is the only source to reach 98% of the state via radio, TV, web, Facebook, and Twitter.

