NEW MEXICO HIGHER EDUCATION DEPARTMENT
FY28 RPSP HEARINGS

NEW MEXICO TECH

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Research & Public Service Project (RPSP) Presentation

PRESENTED BY:
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NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #5: New Mexico Bureau of Geology & Mineral Resources (NMBGMR)

FY28: EXPANSION REQUEST

Priority #5: New Mexico Bureau of Geology and Mineral Resources: New Mexico's State Geological Survey – Expansion Request

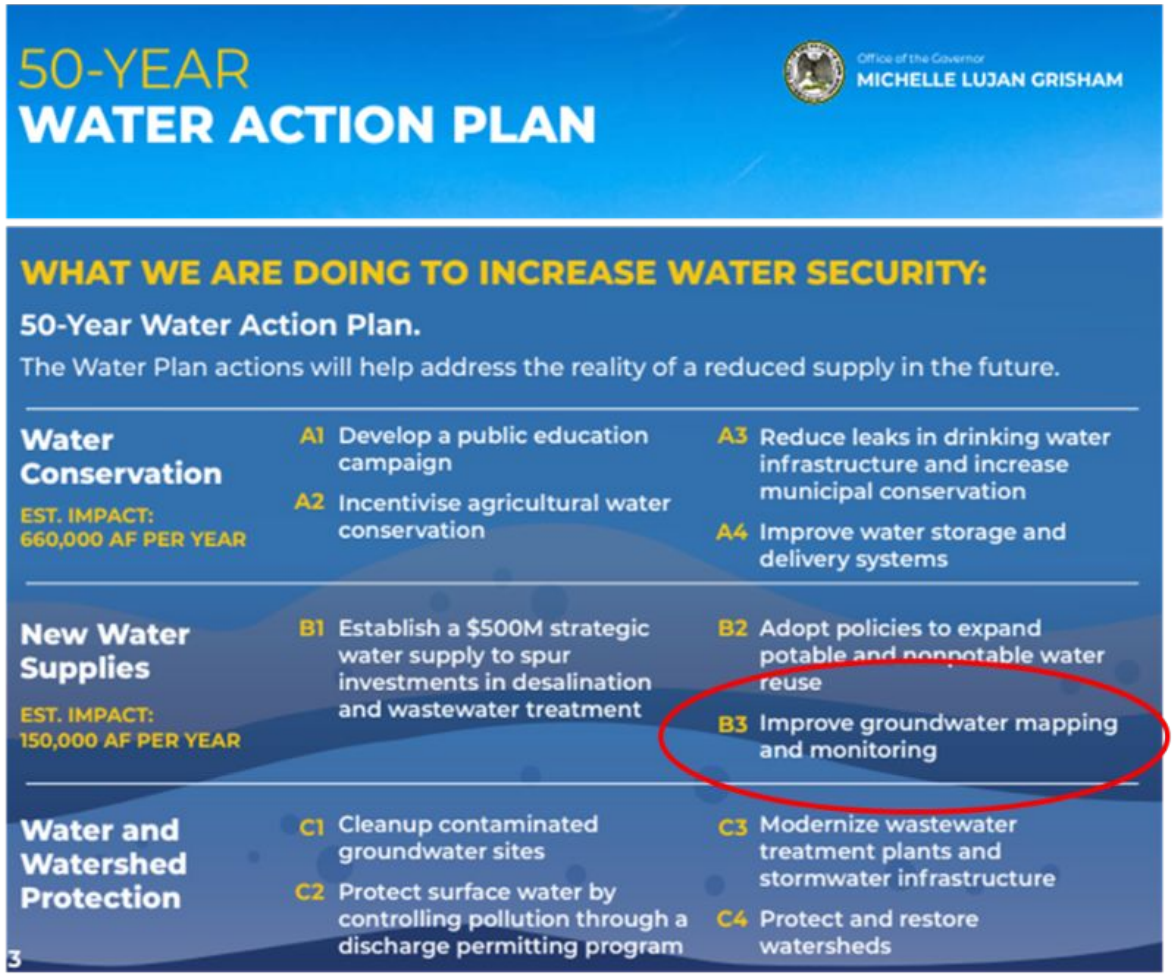
- ***Who we are:*** As a non-regulatory governmental agency (the state's geological survey), we conduct scientific investigations **to support** responsible economic development of the state's mineral, water, and energy resources.

- **What drives our work:** We anticipate the natural resource needs of the state and provide unbiased data and information about the state's natural resources and hazards.

- **Expansion request:** $500K expansion – Geothermal Program
  $22M Special Appropriation – Aquifer Mapping and Monitoring

  Why:
  - 2023 Governor's Water Policy and Infrastructure Task Force and the 2024 Governor's 50-Year Water Action Plan set clear directives for water resource research.

  - The state of New Mexico is quickly becoming the epicenter of geothermal interest and exploration thanks to strategic state investments at EMNRD and the Bureau of Geology at NMT.



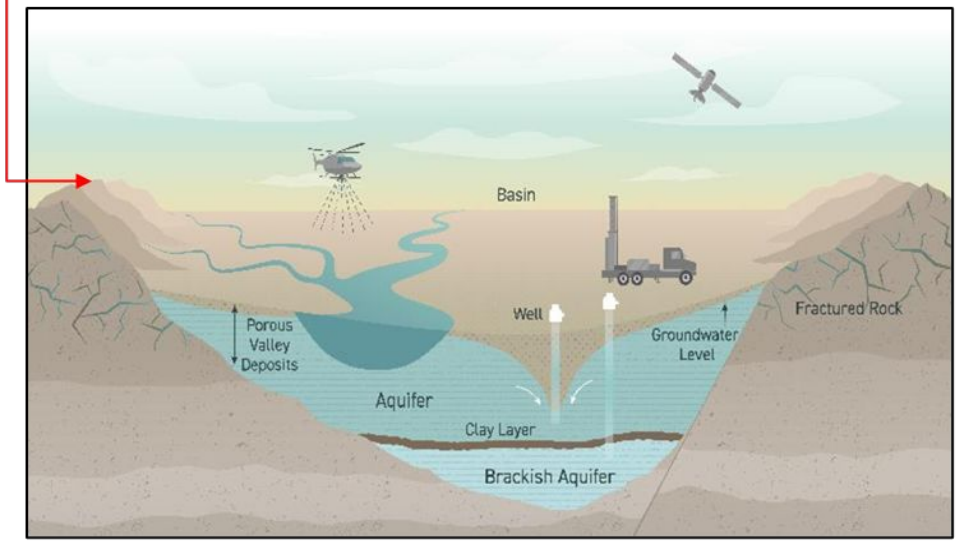
https://www.nm.gov/wp-content/uploads/2024/01/New-Mexico-50-Year-WaterAction-Plan.pdf

Program Areas for Expansion Request and Special Appropriations

Aquifer Mapping & Monitoring

Current budget: $2 M recurring state + $2.35M in active grants, gifts, and $22M in FY27 special appropriations.

- 3D basin hydrogeologic characterization
- Modern characterization efforts require new data acquisition (geophysics, geologic mapping, and new wells)
- Groundwater level monitoring (currently funded by philanthropic funds) uses existing production wells that have incomplete information or are not designed to tap non-conventional groundwater resources.
- New wells will serve as long-term monitoring sites for brackish and fresh groundwater



Geothermal Program

Current budget: $500K GRO funding + $950K in active grants. $10.5M awarded funding in FY27.

- Established as a GRO-funded program in 2024 with $500K per year over 3 years.
- GRO funding ends in FY27
- Working to make NM more attractive to the emerging Geothermal industry (75 requests).

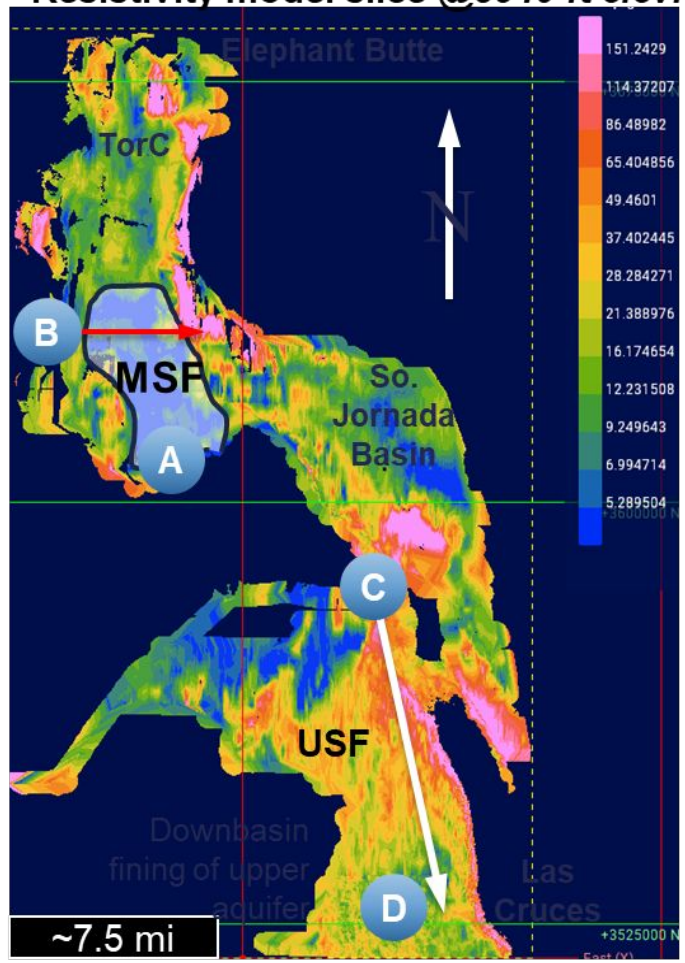
Major Accomplishments:

- Co-published "*The Future of Geothermal in NM*" with Project InnerSpace
- Hosted four Annual New Mexico Geothermal Workshops in Socorro, NM
- Developed Geothermal Certificate Program at NMT in partnership with the Petroleum Engineering Department, benefitting approximately 40 students.
- Host the only state-wide Geothermal Database: T-depth, thermal conductivity, bottom hole T, porosity, permeability, and water chemistry data.
- 6 DOE Proposals - 2 awarded, 2 ECAM Projects. All totaling $10.5M awarded in FY27
- Expertise in the subsurface geology and thermal conditions across the state.

Impacts for New Mexico

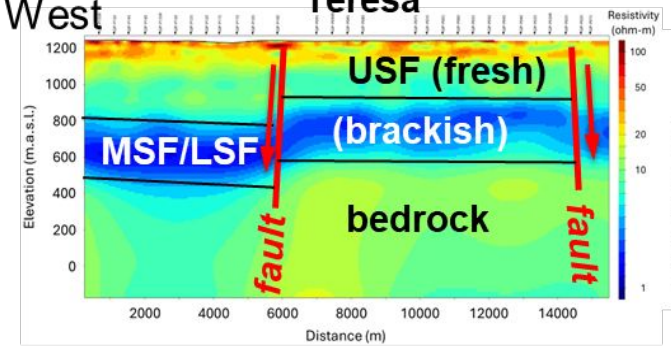
- Fully map our state's fresh and brackish groundwater resources
- Providing science and data to inform water management and regulatory decisions for NM
- Develop a statewide groundwater monitoring network to help track aquifer changes
- Identify key locations for aquifer recharge projects or potential new groundwater supplies
- Locating new geothermal prospects

Lower Rio Grande Basins
Resistivity model slice *@3940 ft elev.*



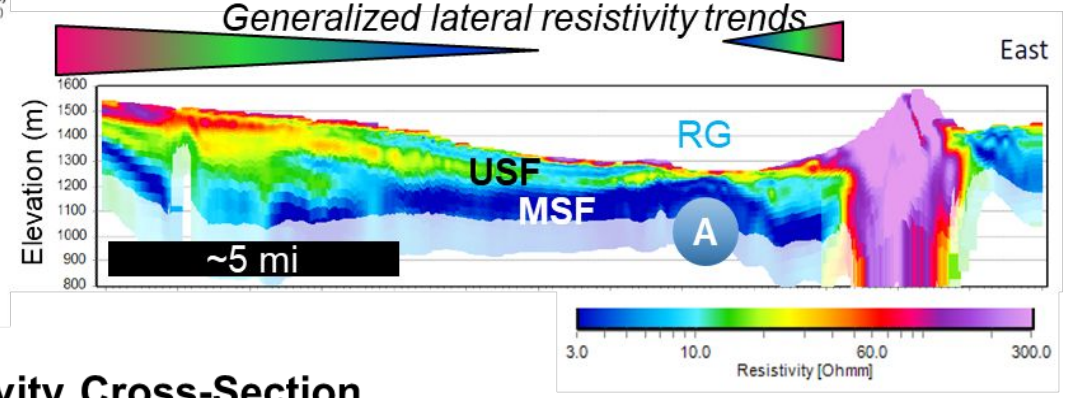
D

MT fault mapping near Sta. Teresa

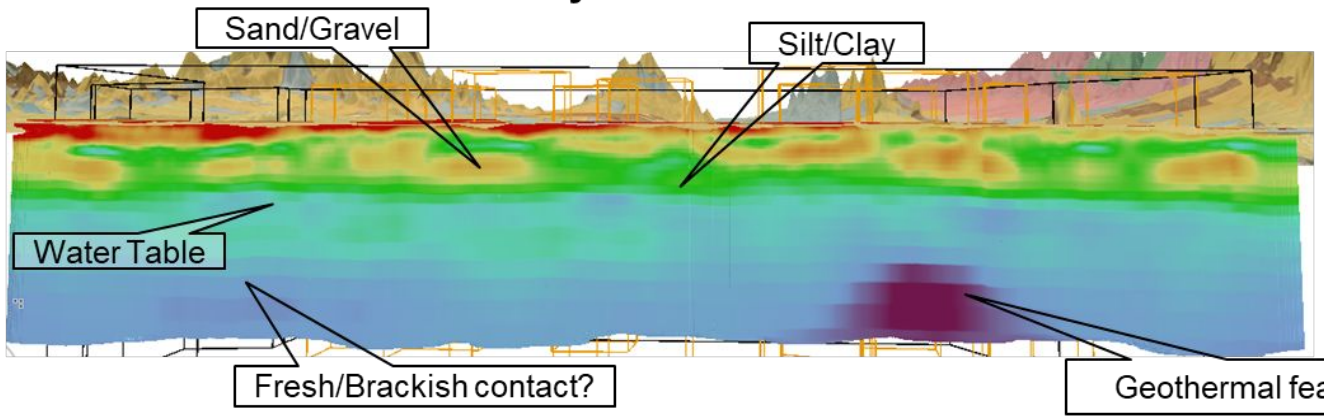


B

Palomas Basin AEM cross section



Resistivity Cross-Section



- Map extensive aquitard in middle Santa Fe Group (MSF) regional aquifer system in the southern Palomas Basin
- Resistivity trends show downstream changes in tributary aquifer lithology
- Ground-based magnetotelluric (MT) refinement of Santa Teresa area AEM studies

Budget Overview

Total Expansion Request:

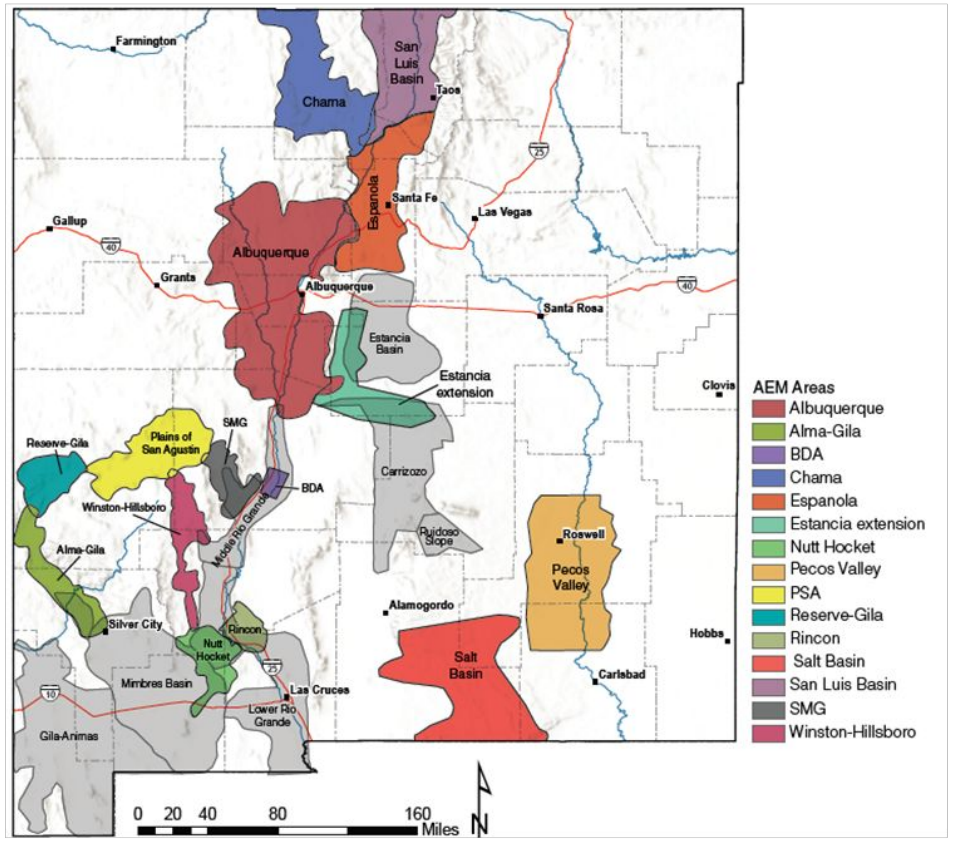
Total FY26 Expenditures: $ 19,690,317
Current FY27 Appropriation: $8,190,700
Requested FY28 Base Request: $8,690,700
Requested FY28 Expansion: $500,000
Requested FY28 Special Approp: $22,000,000
Total FY28 Request: $30,690,700

Bureau Base Budget Expansion – Geothermal Program

- $500K expansion request
- Continue support for the emerging geothermal ecosystem in NM
- Support for 2 Geothermal Researchers in NMBG
- Expanded support for the Geothermal Certificate Program through 2 joint appointments in academic departments
- Support for post-doc and graduate student researchers
- Technical support for annual conference and new data systems for open and public access to databases and subsurface library

Non-recurring Target: $175M over 12 years (7.5M in FY26, 22M in FY27)

- Requesting ***$22M in FY28 over 2 years*** for aquifer characterization and Water Data Programs
- New data collection in 12-14 regions
- Airborne geophysics and basin characterization wells
- New wells used for long-term monitoring.

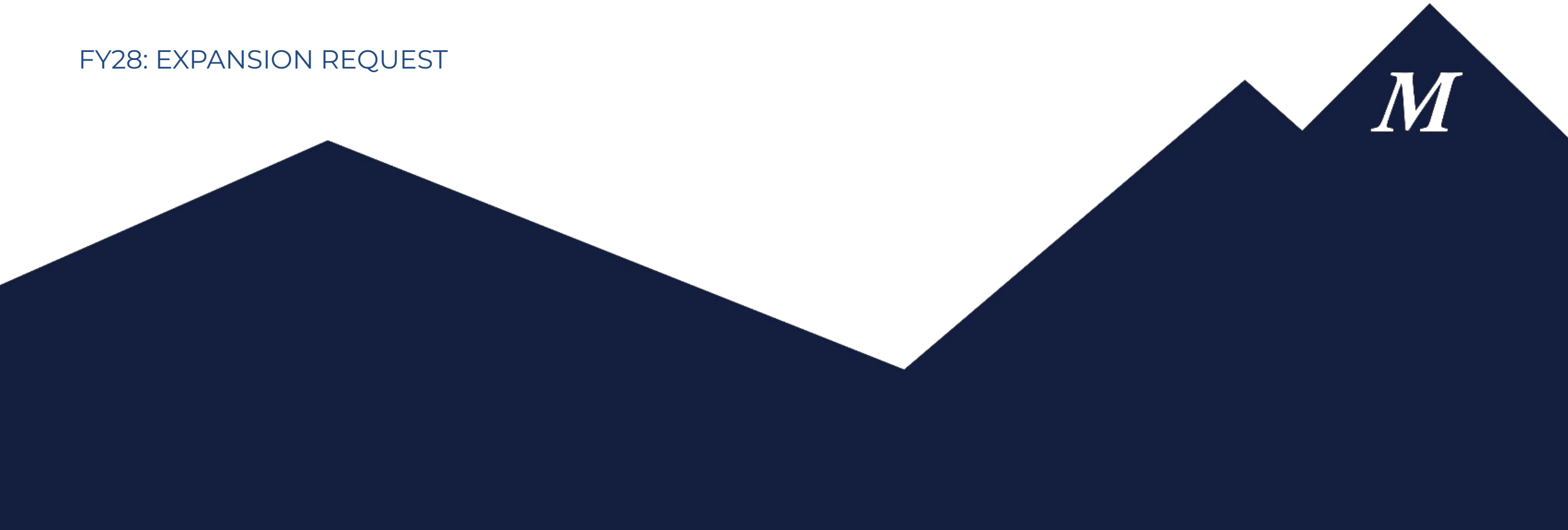


- *FY27 AEM estimate: ~20,000 line-miles (+17% more of state)*

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #4: Petroleum Recovery Research Center (PRRC)

FY28: EXPANSION REQUEST



OVERVIEW & REQUEST

Priority #4: Petroleum Recovery Research Center

Expansion

Core Mission & State Need

Created by New Mexico Statute: NMSA 1978, Article 9 as a division of New Mexico Tech

"The objectives and duties of the New Mexico Petroleum Recovery Research Center shall be as follows:

A. **To engage** in theoretical and practical research into the recovery of petroleum and other energy resources;
B. **to disseminate** the knowledge acquired;
C. **to assist**, in all legal ways, persons and entities in the state in their efforts to effect additional ***recovery of petroleum and other energy resources*** from the state"

Primary Scope & Operations

Research: In sustainable and advanced energy production and management in all aspects of energy use and development

Education: Applied training and hands-on education for 58 students from 5 academic departments in FY27

Tech Transfer: Public-private partnerships utilizing state-of-the-art technology to develop sustainable and economically important energy systems

FY28 REQUEST SUMMARY

$2,722,000 Total Base ($500k Expansion) · **3.5 New FTEs** (3 staff geothermal research, 1 joint appointment faculty

NON-RECURRING ITEMS

1. **Triple Quadrupole Mass Spectrometer for PFAS and PFOS Measurement ($1,150,000)**
2. **Energy Leaders Workshop Program ($1,000,000)**

PERFORMANCE & IMPACT

PRRC: Impact and Key Metrics

$134,466,422
Active Research Portfolio in 35 projects

101 jobs
30 Staff, 13 supported Faculty, and 58 students

265
Papers, Reports, Presentations

Recent Milestone Accomplishments

Web Presence: Over 15 million page views on public facing data providing web pages

New Mexico Energy Initiatives: Formed a collaborative, independent think tank and network led by New Mexico Tech (NMT) that unites academic institutions, national laboratories, utilities, industries, NGOs, and government agencies to provide guidance for the state's energy future

University Support: Hands on training for students in sustainable energy careers, with an average of $2.7 million a year spent on students, faculty, and indirect costs

Statewide & Community Value

Collaboration: Engaged in a community of Scholars for 35 active research projects including UNM, NMSU, Sandia and Los Alamos National Laboratories and industry partners to benefit sustainable energy development in the state

New Mexico Tech: Fully engaged in the education mission of the university and provides funding to faculty, staff, and students for experiential learning

Community Engagement: Conducted over 25 informational sessions and public workshops for energy and Tribal communities across New Mexico

FINANCIAL JUSTIFICATION & SUSTAINABILITY

PRRC: Budget Overview & Sustainability

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request (including non-recurring)
$9,837,432	$2,222,000	$2,722,000	**+$500,000**	**$4,872,000**

Supporting the Energy Ecosystem of the State

Active engagement with key stakeholders in all aspects of energy in New Mexico **| By providing support to the State as it developed its Comprehensive Energy Transition Strategy |** By engaging in **relevant research** across a broad range of energy topics including **grid stability, critical minerals, geothermal, nuclear,** while improving the sustainability of traditional **oil and gas** resource extraction **|** By providing data and analyses to decision makers on energy topics

Excellent Return on Investment

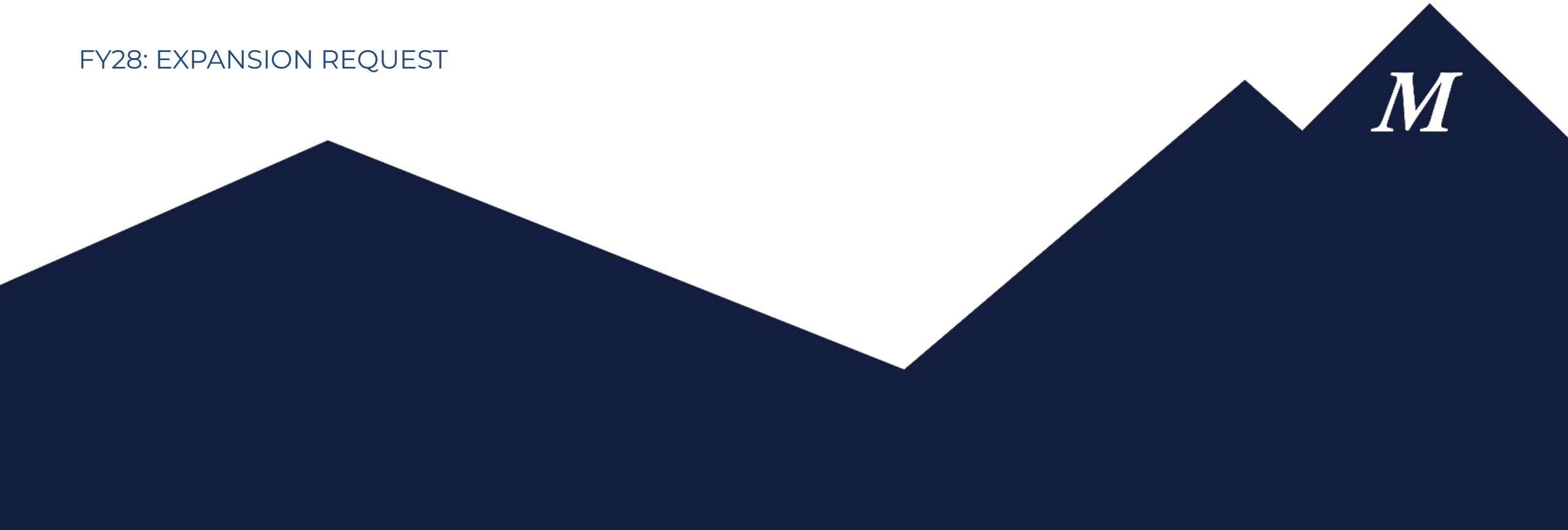
Every **$1** of state RPSP funding yielded **$4.45** in federal, state, and private funds to perform our research and to meet our RPSP mission as defined by our forming statute, and to aid in the educational mission of New Mexico Tech by actively engaging and paying students and faculty

Funding expands community awareness, energy site readiness, geothermal capabilities, critical mineral supply, and commercialization of NMT technologies for advanced water management.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #7: Energetic Materials Research & Testing Center (EMRTC)

FY28: EXPANSION REQUEST



OVERVIEW & REQUEST

Priority #7: Energetics Materials Research and Testing Center

Expansion

Core Mission & State Need

Created by statute in 2003 (§21-11-8.3): RPSP funding is utilized by EMRTC for research and technology development, testing and evaluation of energetic materials, public outreach, student employment and workforce development, and funding activities vital to NMT and the state of New Mexico.

State Alignment: Serves national, homeland security, defense and space-adjacent research, testing and evaluation, and training

Target Population: NMT undergraduate and graduate students, faculty and staff, New Mexico companies and national lab partners, first responders in counties, states and territories across the US (training)

Primary Scope & Operations

- **Key Service 1:** conduct research, development, testing and evaluation of ordinance, explosives and energetic materials
- **Key Service 2:** provide research opportunities for students, faculty and staff
- **Key Service 3:** conduct training courses in explosives handling and safety, emergency response, terrorist incident response and counterterrorism methods

FY28 REQUEST SUMMARY

$1,327,417 Expansion from $1,072,700 (+$254,717)

PERFORMANCE & IMPACT

EMRTC: Progress Data & Measurable Outcomes

39 / 112 / 14,234

Students / Staff Employed / First Responders Trained

$28M

New Award Activity in FY26

$4.3M

Goods/services purchased from NM Vendors

Baseline Progress Data

- **Historical Accomplishment:** Award activity increased to $28M, economic impact to NM vendors increased to $4.3M, outreach and student projections were reached.
- **Program Growth:** Increasing award activity, increasing faculty engagement with joint hire, increasing student engagement with expanding workforce programs
- **Efficiency Gains:** For FY2026, every $1 invested through RPSP generated over $28 dollars of award activity at EMRTC

Statewide Impact

Workforce & Jobs: 39 NMT students were financially supported and trained on various aspects of energetic materials technologies

Economic Value: FY26 staff of 112 employees, providing vital economic development for New Mexico

Community Benefit: RPSP funds supported more than a dozen cultural, outreach, and training events in the Socorro community and beyond.

FINANCIAL JUSTIFICATION S & SUSTAINABILITY

EMRTC: Budget Plan

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$23,902,502	$1,070,782	$1,070,782	**+$245,717**	**$1,327,417**

Self-Sustainability Plan / State Need

EMRTC has a statutory mandate to conduct research, development, testing, evaluation and training of energetic materials.

Expansion request will support joint-faculty hires, student internships for workforce development, staff salary to support increased proposal and award activity

State ROI & Federal Leverage

In FY26, every $1 invested through RPSP generated over $28 dollars of award activity (54% with NM industry partners)

Delivered $4.3M in goods and services purchased from NM vendors

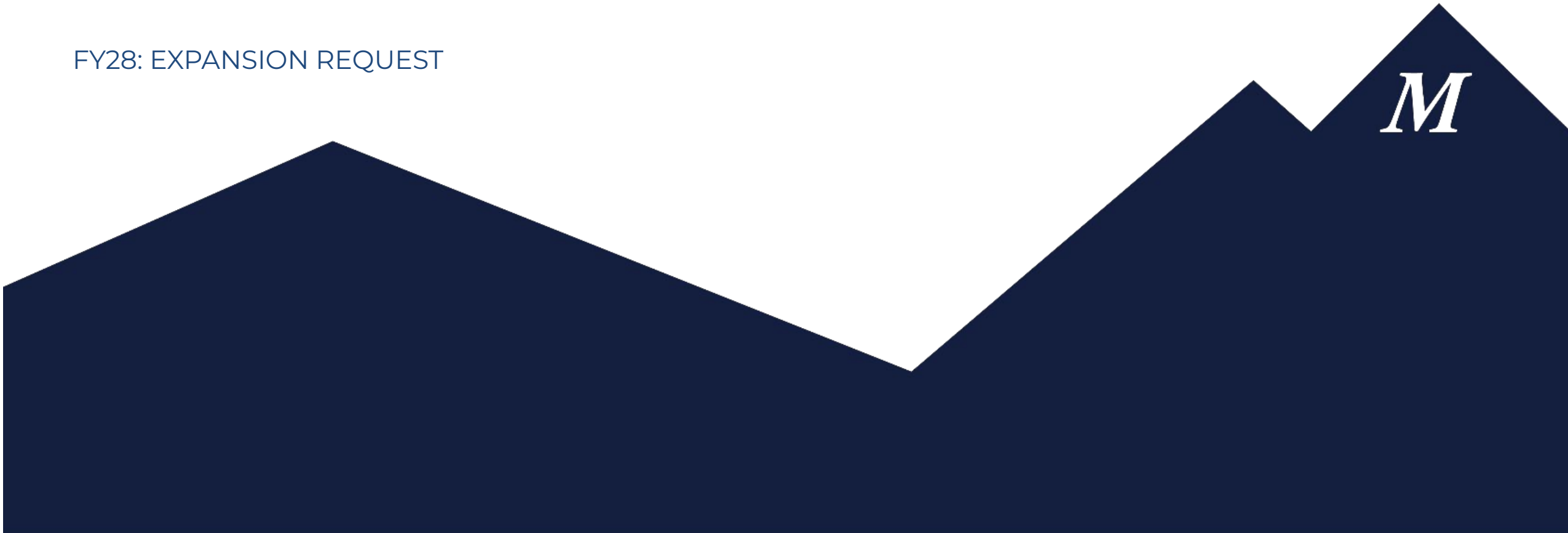
State appropriation of $7M secured in FY27 for new energetics facility

EMRTC conducts training, research, development, testing and evaluation of energetics

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #3: New Mexico Tech STEM Outreach (Science Fair/Science Olympiad and PDP)

FY28: EXPANSION REQUEST



OVERVIEW & REQUEST

Priority #3: Science & Engineering Fair / PDP

Expansion

Core Mission & State Need

- Science & Engineering Fair expands access to STEM competitions and educator support statewide. The fair anchors outreach that also includes **Science Olympiad** and **Robotics**.
- The STEM Teacher Professional Development Program (PDP provides opportunities and support for **New Mexico's in-service teachers** interested in wanting to **enhance their STEM content knowledge and skills**.

State Alignment: STEM education, college readiness, and workforce pathways

Target Population: K–12 students and in-service teachers in rural, tribal, and Title I schools throughout New Mexico.

Primary Scope & Operations

What is this RPSP and why are we requesting an increase:

- Goal 1: Cultivate relationships to **engage K-12 students in STEM.**
- Goal 2: **Prepare STEM teachers with the skills and resources** they need to support students.

This RPSP **sustains** current infrastructure and efforts in:

- Science & Engineering Fair, Science Olympiad, Robotics.
- Support in-service teachers to complete STEM coursework (Master of Science for Teachers degree).

This RPSP **expands** resources to:

- **Support the growth** of STEM competitions and teacher development programs.

FY28 REQUEST SUMMARY

$414,234 (Expansion: $193,000)

PERFORMANCE & IMPACT

Science & Engineering Fair/PDP: Progress & STEM Outreach Impact

8,000+
Students/Teachers reached statewide FY26

$21,414 Science Fair: Endowment & Grant

$5M PDP: Endowment and Federal Grants

183
Schools Reached

36
Scholarships Awarded to NM Teachers

Baseline Progress and Regional Growth

- **GRO funding** expanded **STEM Outreach** from just over **2,000** to more than **8,000** students statewide. It supported **Science Olympiad**, the **Science & Engineering Fair**, **Robotics**, in-person and classroom training, and the training of **eight regional directors across eight regions.**
- Increased number of **STEM proficient New Mexico teachers**. In 2025-26 **graduated 16 STEM teachers** with MST degrees. PDP funding provided **scholarships for 36 New Mexico teachers** to pursue STEM coursework.

Statewide Impact

Workforce pathways: Practical experience and create interest in STEM careers for K-12 students. Increased number of math and science teachers.

Access: 183 Schools reached throughout the state with more than 30 Title I schools engaged; homeschool students and co-ops. Statewide in-service teachers participate in MST program through its online courses.

Community Benefits: STEM Outreach builds connections with families, students, teachers, and schools to inspire confidence and resilience in STEM through engaging competitions and resources. We promote growth and passion for STEM in an inclusive environment, ensuring all students feel valued and supported.

FINANCIAL JUSTIFICATION & SUSTAINABILITY

Science & Engineering Fair/PDP: Budget and Sustainability

Program:	FY26 Actual Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
Science & Engineering Fair	**$143,821**	$98,585	$98,585	$150,910	**$249,495**
PDP	**$127,220**	$122,815	$122,815	$41,924	**$164,739**
Totals:	**$271,041**	**$221,400**	**$221,400**	**$192,834**	**$414,234**

Need for Ongoing State Support

- Science Fair/Statewide STEM events (**Fair, Science Olympiad, Robotics**) need funding for operations, statewide coordination, regional support and rural student travel. Registration, endowments, and grants do not cover the entirety of the need. The expansion request also supports administrative capacity by funding an **additional 1.5 FTE to sustain and support growth.**
- Continuous and expansion support is required to increase the number of K-12 STEM teachers through **increased funding of scholarships** for their MST coursework. We also request to increase the proportion of MST staff salaries for an **additional 0.5 FTE to support increased number of students.**

State Return and External Support

- The FY25 one-time $160,000 GRO award supported robotics, educator training, accessibility, and regional training. Continued state support will preserve those gains.
- We have also leveraged State funding for an endowment that covers half the travel for international competition, and a grant for $5,000 through Sandia National Labs.
- Donor funded $2+ million endowment to support STEM Education Center/PDP.
- US Department of Education funded over $3 million for two Upward Bound Math and Science grant programs.

State support sustains statewide access for STEM Students and Teachers

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Priority #6: Institute for Complex Additive Systems Analysis (ICASA)

FY28: EXPANSION REQUEST

OVERVIEW & REQUEST

Priority #6: Institute for Complex Additive Systems Analysis (ICASA)

Expansion

Core Mission & State Need

Created by statute in 2001 (§21-11-8.1), ICASA turns data science research into practical tools for New Mexico agencies, national security partners and NMT students.

State Alignment: Supporting state priorities in public safety, healthcare workforce, data governance, and rural economic development, including legislatively funded work on NM Healthcare Workforce Dashboard ($750k) and statewide data governance ($480k).

Target Population: NMT students (mostly in-state; 250+ since 2001); NM agencies (Sentencing Commission, Dept. of Public Safety, AOC, health and workforce agencies, 1st Judicial DA) SW New Mexico communities (Hidalgo, Grant, Luna); DoD, IC and national lab partners.

Primary Scope & Operations

Cyber-Kinetic Combat Environment – applied R&D and a live test range at the PRTC, attracting federal defense investment to the SW NM

Data Science in the Public Interest (DSPI) – Building enabling technologies for NM State agencies.

Integration & Analytics – reducing large, complex systems to solvable problems through information fusion, M2M automation, and network analytics.

FY28 REQUEST SUMMARY

$1,340,491.50 Total Base (**$69,291.50** Expansion; +5.45%) – 0.5 FTE Academic Director to strengthen collaboration between ICASA and the academic departments

PERFORMANCE & IMPACT

ICASA: Progress Data & Measurable Outcomes

37 FTE +24 Students, ~24 with DoD clearances

$3.4M$_{FY26}$/$10.8M$_{FY27}$

In External Grants / Federal & State Funding Leveraged

10$_{FY26}$/6$_{FY27}$

DOD/NM State Projects Completed in FY26 into FY27

Baseline Progress Data

Historical Accomplishment: Continue building NM Healthcare Workforce Dashboard, delivered Data Governance study and recommendations, CJCC dashboard in late-stage development.

Program Growth: Negotiating $2.2M One Source of Truth project (SFY27-29). NMSC partnership is entering its 8th year. Workforce grew from 20 employees (FY20) to 37 FTE + 24 students in (FY26)

Efficiency Gains: Since FY20 $8.9M in state RPSP funds has leveraged $96.5M in external funding (~10.9:1). State agency development in automated data sharing to reduce agency staff workload.

Statewide Impact

Workforce & Jobs: FY26 37 FTE (~24 with DoD clearances) and 24 student employees. 250+ students supported since 2001. Builds NM talent in spaces of data science, national security, creating next generation of critical thinkers.

Economic Value: ~$15M spent in NM in FY26, including $3.1M in salaries and wages, remaining on services, infrastructure mainly in Hidalgo, Grant, and Luna counties.

Community Benefit: Access to accurate CJ data for NMSC and NMDPS (disposition matching across 20+ years of records); a public Healthcare Workforce Dashboard; and in negotiations a single source of truth for healthcare providers.

FINANCIAL JUSTIFICATION S & SUSTAINABILITY

ICASA: Budget Overview & Sustainability

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$15,218,114.93	$1,271,200.00	$1,271,200.00	**+$69,291.50**	**$1,340,491.50**

Self-Sustainability Plan / State Need

Built on state investment: RPSP is ICASA's base funding. It pays for the proposals, prototypes, and partnerships that bring work to New Mexico.
Serving New Mexicans: more complete criminal justice records for courts and public safety (Sentencing Commission, DPS, DAs); healthcare workforce data; accurate provider directories for patients.
Protecting the nation: cleared staff supporting DoD and intelligence missions.
Continued support keeps this work in New Mexico.

State ROI & Federal Leverage

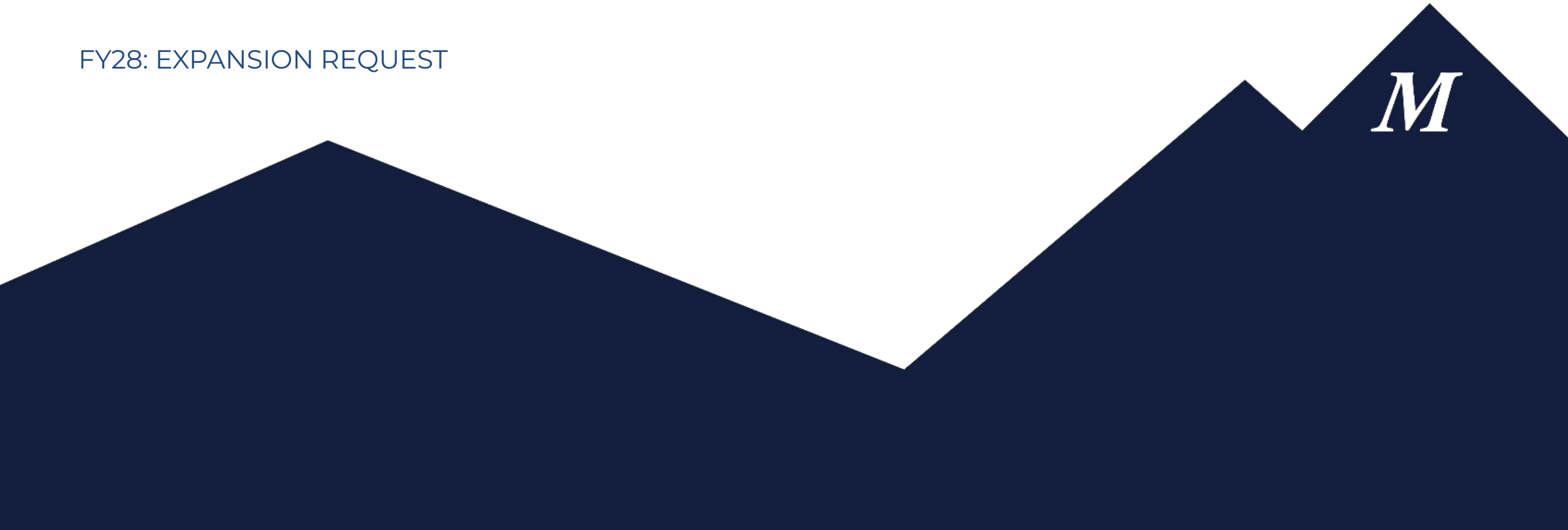
State RPSP funds pay for the core team that wins and delivers federal and state contracts. Since FY20, $8.9M in state funds has brought in $96.5M in outside funding, about $11 for every state dollar. That team now supports the $93M Cyber-Kinetic Combat Environment range and is pursuing the next AFRL contract and an Air Combat Command operations and maintenance contract. Expansion supports Joint faculty and student projects.

Provides basic and applied data science research to advance national security, serve the public good, and equip students with job-ready skills

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #2: Homeland Security Center

FY28: EXPANSION REQUEST



OVERVIEW & REQUEST

Priority #2: New Mexico Homeland and National Security Center (NMH&NC)

Expansion

Core Mission & State Need

Advances the nation's security while acting as an economic force multiplier for New Mexico. Center delivers research, training, testing, and evaluation that strengthen national, physical, community, and economic security.

State Alignment: The Center strengthens national, physical, community, and economic security by delivering solutions that build resilient communities and critical infrastructure, accelerate technology commercialization, and create high-wage jobs across New Mexico

Target Population: NM communities, Department of War, and Department of Energy

Primary Scope & Operations

Catalyze sector growth in mission-critical technologies: Advance applied R&D, testing/evaluation, and commercialization across national security, wireless communications and dynamic spectrum sharing, data/AI, and critical infrastructure technologies.

Build high-impact, statewide and national partnerships.: Develop durable relationships with communities, regional organizations, businesses, governments, DOE/DoW laboratories, and universities to expand sponsored research, joint facilities, workforce pipelines, and industry consortia.

Strengthen law enforcement & homeland security capabilities: Co-design with local, state, tribal, and federal agencies to deliver training, exercises, and technology evaluations; deploy data-driven tools that enhance preparedness, response, and recovery.

FY28 REQUEST SUMMARY

$1,012,100 (**Expansion of $342,200**)

PERFORMANCE & IMPACT

NMH&NSC: Progress Data & Measurable Outcomes

$28.9M
New funding leveraged from federal sources

14,604
First Responders Trained

24+
Private industry partners in RDT&E

Baseline Progress Data

State Appropriation FutureG: $9 million in funding, built and deployed 6G cellular system in Playas.

AFRL: supports New Mexico Tech participation with the Air Force Research Laboratory, Space Vehicles and Directed Energy Directories in Technology Transfer, Technology Engagement and STEM Outreach.

Events at Playas: NMT coordinates 12-16 R&D events per month being delivered to the USAF, 2-5 events for DoW and other funders, and 3 larger events per year at Playas, in addition to 17 First Responder Training courses

Statewide ROI and Federal Leverage

Economic impact to the state: Appropriate state and local taxes on $22,000,000 program dollars (DHS funding for First Responder Training): general shopping/tourism, hotels, restaurants, fuel stations and rental cars..

$10.0 million in DoW funding from AFRL to build out the capabilities at the PRTC in Hidalgo County.

$0.9 million in funding for research and training activities in Hidalgo County.

55 Students supported in R&D projects.

FINANCIAL JUSTIFICATION & SUSTAINABILITY

NMH&NSC : Budget Overview & Sustainability

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$279,267	$669,900	$669,900	**+$342,200**	**$1,012,100**

Expansion Request: PRTC Wireless Hub

Position the Playas Research and Training Center (PRTC) as the premier research, testing, and training environment for wireless communications and dynamic spectrum sharing Investments prioritize high-impact infrastructure, workforce pipelines, and market-facing with a focus on Southwestern New Mexico.

ROI and Federal Leverage

To date the cyber kinetic combat environment project has leveraged $82.5 million in DoW support.

Currently working on a renewal RDT&E contract valued at $100 million.

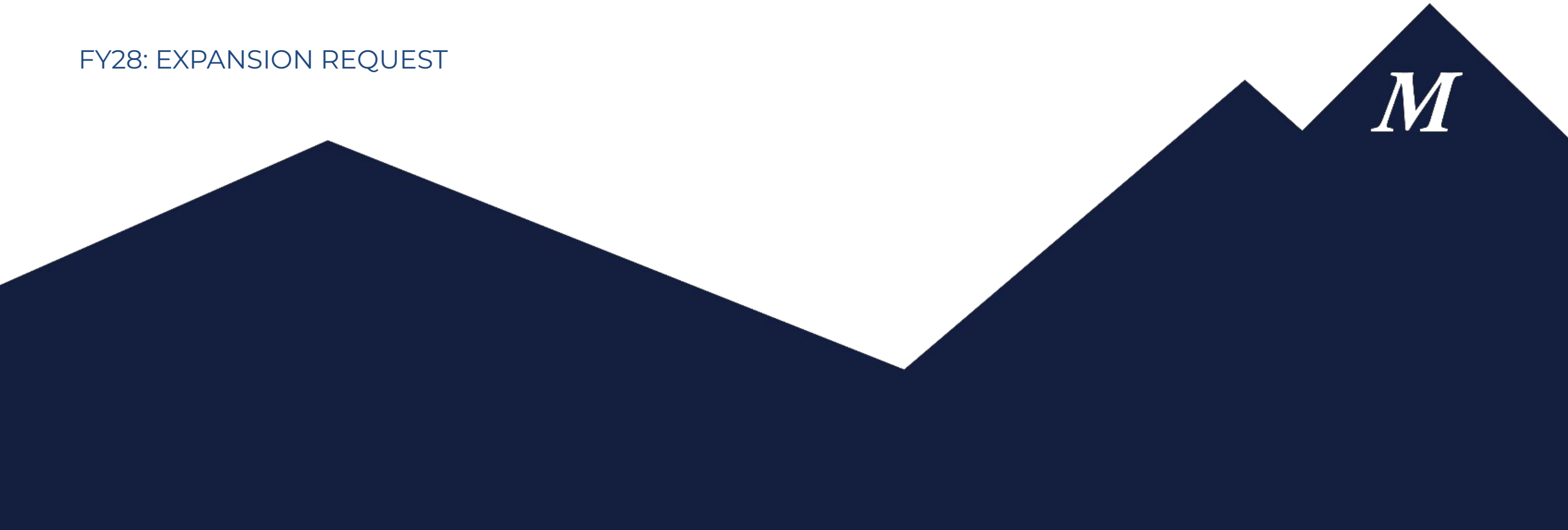
FY27 State Appropriation for the Wireless Hub has already been leveraged with $4 million federal funding since July 1st.

Funding Supports a National Security Ecosystem Being Delivered in Rural New Mexico.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #1: New Mexico Cybersecurity Center of Excellence

FY28: EXPANSION REQUEST



OVERVIEW & REQUEST

Priority #1: NM Cybersecurity Center of Excellence (NMCCoE)

Expansion

Core Mission & State Need

The NMCCoE actively coordinates the cybersecurity needs and resources of New Mexico – across industry, academia, government, and community partners – into programs that build whole-of-state resilience, technical capability, and economic opportunity through service-centered cybersecurity activities. An expansion of the NMCCoE is proposed, expanding the efforts of the center to meet the needs and complexity of the moment.

State Alignment: The NMCCoE will continue its support of cybersecurity and cyber-adjacent degree programs and education state-wide.

Target Population: NMT K-12, undergraduate and graduate students, faculty, New Mexico companies and small businesses, policy makers.

Primary Scope & Operations

Key Service 1: Outreach: Active community and stakeholder engagement throughout the state, Updating of “digital citizenship” and “cyber hygiene” resources and training, Broadening outreach efforts beyond K-12 and STEM.

Key Service 2: Education: Specific focus on the development of programs to provide students with impactful service-learning opportunities, and to more broadly connect with degree programs and cybersecurity education efforts throughout the state.

Key Service 3: Research: NMCCoE will work to adapt the university system to the new realities of convergent/cybersecurity research, requiring more rapid responses to emerging and complex challenges, relying on diversified pathways to funding and resource acquisition

FY28 REQUEST SUMMARY

$1,327,417 Expansion $254,717, from $1,072,700)

PERFORMANCE & IMPACT

NMCCoE : Progress Data & Measurable Outcomes

40
Students Employed

$670K
Federal funding Activity in FY26

1318/51/27
K-12, undergrad, grad students educated

Baseline Progress Data

- **State-wide LLM**: NMCCoE developed LLM to highlight research across the state universities with funding from NM Epscor.
- **Program Growth:** NMCCoE developed one graduate certificate and three graduate degrees. Further, there were 142 enrollments in cybersecurity courses in FY26, financially supported 40 students. New Director.
- **Collaborations:** across the state to address critical cybersecurity challenges, Elevate Quantum, national laboratories, NM State Departments, Air Force Research Laboratory and the SpaceValley Foundation to prepare a space cyber workforce

Statewide Impact

Workforce & Jobs: 40 NMT students were financially supported and trained in cybersecurity

Outreach and Education: The NMCCoE has served thousands of students in K-12, higher education, and transitioning workforce populations throughout its seven years of outreach and educational support.

Community Benefit: Cyber Cafe meetings to discuss cybersecurity with online participants. Numerous cybersecurity meetings across New Mexico and the nation.

FINANCIAL JUSTIFICATION S & SUSTAINABILITY

NMCCoE : Budget Plan

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$368,777	$554,100	$597,490	**+$245,900**	**$800,000**

Self-Sustainability Plan / State Need

The requested expansion will allow NMCCoE to accomplish more while leveraging state funding to increase federal, industry, and private support of these programs as well as increase collaboration and leveraging of state funding across New Mexico.

Funds support salaries, providing stability that allow for pursuit of federal funding.

State ROI & Federal Leverage

Projected increase in federal funding.

Increased community Outreach events.

Increased participation in K-12 and community projects.

Increased student enrollment in academic programs for workforce development.

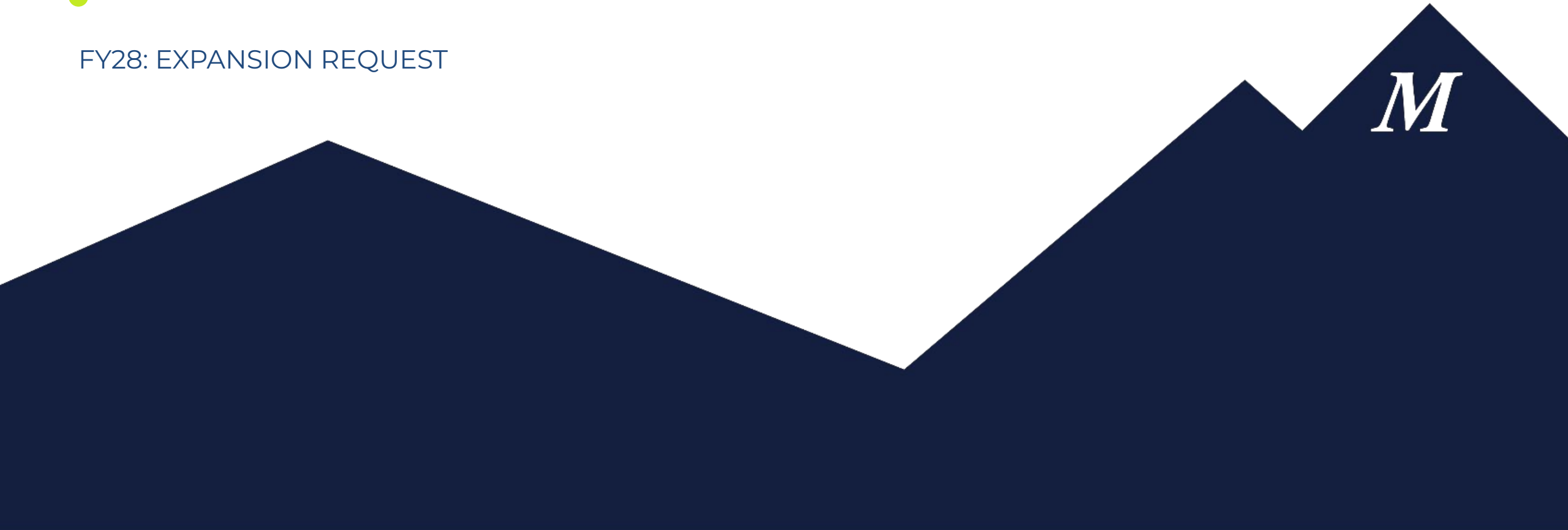
NMCCoE serving the State for Cybersecurity Education, Outreach and Research

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #16: Rural Economic Development

Middle Rio Grande Economic Development Association (MRGEDA)

FY28: EXPANSION REQUEST



OVERVIEW & REQUEST

Priority #16: Rural Economic Development

Middle Rio Grande Economic Development Association (MRGEDA)

Expansion

Core Mission & State Need

Empowering Valencia, Socorro, Sierra, and Catron counties by connecting local communities and businesses with regional partnerships, resources, and strategic support needed to drive job growth and long-term economic vitality.

State Alignment & Target Population: EDNM Certified Economic Development Organization (CEDA) expanding economic development capacity, business recruitment and retention, entrepreneurship, and workforce training across 4 under-resourced rural counties to foster long-term economic vitality in rural communities

Primary Scope & Operations

- **Regional Capacity & Collaboration:** Bridging gaps for rural and frontier communities.
- **Business & Entrepreneur Support:** Hands-on guidance to help local businesses scale, remain competitive and gain access to financing and technical assistance
- **Infrastructure & Workforce Readiness:** Facilitating long-term grown by aligning community infrastructure & workforce development resources with local priorities

FY28 REQUEST SUMMARY

$47,800 Total Base ($15k Expansion) to increase Executive Director 0.5 FTE to 0.7 FTE

PERFORMANCE & IMPACT

Rural Economic Development : Progress Data & Measurable Outcomes

30+
Businesses Assisted Across the Region

30+
Regional meetings/events

25+
Entrepreneurs Supported
Clinics, Referrals & Technical Assistance

Recent Milestone Accomplishments

Achieved State Certified EDO Status: Designated as Certified Economic Development Org by EDNM validating regional capacity, governance & leadership

Infrastructure: Advanced industrial site readiness through environmental assessments, infrastructure planning & regional partnerships

Completed City of Socorro Comprehensive Master Plan: Partnered with Bohannan Huston to deliver the first dedicated economic development strategy for the City in 20 years

Statewide & Community Value

Bridge for Rural Capital & Programs: Navigate state and federal grant programs, tax incentives, and funding pools that small local governments lack the staff to pursue independently.

Diversification & Preservation: Supports core regional economic pillars—such as local agriculture, small business Main Streets, and natural resources—while actively recruiting high-tech, aerospace, and clean energy industries.

Unified Regional Voice: Fosters cross-county collaboration so isolated towns can leverage shared infrastructure and workforce pipelines

FINANCIAL JUSTIFICATION & SUSTAINABILITY

Rural Economic Development: Budget Overview & Sustainability

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$32,800	$32,800	$47,800	**+$15,000**	**$47,800**

Diversified Funding Model & Budget Overview

MRGEDA sustains its operations through a blended revenue structure combining membership dues, state economic development grants, strategic foundation contributions, and fee-for-service project administration, ensuring fiscal resilience and reduced reliance on any single funding source.

Programmatic Sustainability & Long-Term Capacity

By embedding strategic projects directly into local municipal priorities, fostering cross-county public-private partnerships, and leveraging regional infrastructure assets, MRGEDA ensures its economic initiatives remain self-sustaining and impactful long after initial implementation.

Funding expands rural site readiness, local entrepreneurship, and workforce development.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #16: Chemical Engineering Student Assistantships

FY28: EXPANSION REQUEST

OVERVIEW & REQUEST

Priority #16: Research Assistantships in Chemical Engineering

Expansion

Core Mission & State Need

This RPSP supplies assistantships to undergraduate and graduate students to carry out research in Chemical Engineering program at New Mexico Tech.

Expansion is requested to be able to maintain current operation levels, reflecting increased stipend levels.

State Alignment: Graduates enter careers in New Mexico and establish the pipeline of a STEM-trained workforce for our state.

Target Population: NMT undergraduate and graduate students, Outreach demonstrations to K-12 schools in NM.

Primary Scope & Operations

Key Service 1: provide funding support for research students in Chemical Engineering at New Mexico Tech.

Key Service 2: Graduate students supported by this RPSP project will finalize their thesis, produce peer-reviewed publications, and present their work at professional conferences, thereby representing our graduate program to a broader audience.

Key Service 3: Funding for undergraduate researchers, most of whom are in-state, and provides research opportunities that encourage them to pursue advanced degrees

FY28 REQUEST SUMMARY

$209,265 **Expansion from $199,300 (+$9,965)**

PERFORMANCE & IMPACT

Chem Engineering: Progress Data & Measurable Outcomes

5 / 11
Undergraduate/Graduate Students Supported

32 / 11
Research Presentations and Publications

6
New Federal Awards

Baseline Progress Data

· **Support:** FY26: 11 graduate and 5 undergraduate students were supported. Among them, there were 1 Ph.D. and 1 MS students who graduated.

· **Program Growth:** Graduate program now enrolls 35 students in total. (15 Ph.D.,10 MS, and 10 ME) Notably, 12 of them are graduates of our department's BS program, and the majority have been supported by this fund.

· **Efficiency Gains:** FY26: peer-reviewed publication rose from 10 to 11; conference presentations increased from 30 to 32; and the total number of active external research grants rose from 10 to 13.

Statewide Impact

Workforce & Jobs: supporting approximately 10 graduate students and 5 – 10 undergraduate researchers in the Chemical Engineering program each year.

Economic Value: graduates gravitate towards careers in New Mexico and establish the pipeline of a STEM-trained workforce for our state

Community Benefit: Development of outreach demonstrations that illustrate the core engineering principles, designed for school visits across New Mexico, and K-12 student on-campus laboratory tours.

FINANCIAL JUSTIFICATION S & SUSTAINABILITY

Chem Engineering : Budget Plan

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$80,290	$199,300	$199,300	**+$9,965**	**$209,265**

Self-Sustainability Plan / State Need

The budget allows for the partial funding of graduate students and several undergraduate students in the form of salary/stipends, nominal supplies, and travel to conferences to present their research results.

Expansion : A 5% increase was applied to consider graduate stipend increases.

State ROI & Federal Leverage

- RPSP will establish the pipeline of a STEM-trained workforce for the state of New Mexico.
- Outreach activities attract K-12 students to STEM education.
- State funds are leveraged to obtain federal funding.

Chemical Engineering Research Assistantships and Outreach

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #12: New Mexico Mathematics Engineering Advancement (MESA)

FY28: EXPANSION REQUEST

OVERVIEW & REQUEST

Priority #12: New Mexico MESA

Expansion

Core Mission & State Need

NM MESA prepares students in grades 6–12 at Title I schools for college and STEM careers through hands-on, problem-based learning in engineering, math, and science, as well as competitions and college-pathway support, at no cost to families.

State Alignment: Advances HED attainment goals through college-pathway exposure and serves the at-risk students named in Yazzie/Martinez with hands-on learning aligned to NM STEM Ready! science standards.

Target Population: 4,071 students at 106 Title I schools in 25 districts and 4 charter schools; 91% free/reduced lunch, 76% first-generation college-bound, 61% rural.

Primary Scope & Operations

School-based STEM programs: 132 trained advisors run year-long MESA programs under school MOUs, supported by six regional offices at higher education institutions.

STEM competitions: MESA Day, MESA USA National Engineering Design Competition, Governor's STEM Challenge, Science Fair, and robotics with NM Tech.

College pathway: Loyalty Awards of up to $1,000 for college-enrolling seniors, MESA Buddies near-peer mentoring program, campus exposure.

FY28 REQUEST SUMMARY

$1,240,000: $1,190,000 base plus $50,000 recurring for staff compensation and operating costs. No new programs or positions. FTE Impact: None

PERFORMANCE & IMPACT

NM MESA: Progress Data & Measurable Outcomes

4,071
Students served in grades 6–12 (FY26)

$610K
Non-state match: school in-kind and private awards (FY27)

106
Title I schools reached across 25 districts and 4 charters

Baseline Progress Data

Historical Accomplishment: 44 years and more than 60,000 students served. MESA seniors average 3 years in the program.

Program Growth: Private giving rose from $52,000 in FY26 to $232,000 awarded in FY27. FY28 expansion to bring on board new schools uses no state RPSP dollars.

Efficiency Gains: A full year of STEM programming for about $335 per student. Average staff tenure is 10 years.

Statewide Impact

Workforce & Jobs: Loyalty Awards grew from 60 (Class of 2023) to 102 (Class of 2026), even as academic criteria tightened. All 102 enrolled in college; 89% declared a STEM major; 79% of award dollars went to New Mexico institutions.

Economic Value: Partner schools contribute $378,000 a year in classroom space, advisor stipends, and transportation.

Community Benefit: Brings STEM enrichment to rural and tribal communities; 61% of MESA schools are rural and 76% of students are first-generation college-bound.

FINANCIAL JUSTIFICATION & SUSTAINABILITY

NM MESA: Budget & Sustainability Plan

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
$1,182,900	$1,190,000	$1,190,000	+$50,000	$1,240,000

The $50,000: 6% salary adjustment, $33,496 · associated benefit costs, $11,504 · utilities, $5,000. Recurring.

Self-Sustainability Plan / State Need

NM MESA serves low-income students at no cost and has no fee revenue. State funding sustains the statewide staff and regional structure with each region averaging 18 schools; private funding is growing and pays for program growth.

The $50,000 funds the first salary adjustment of this size in more than six years and maintains current service levels. It funds no new programs or positions.

State ROI & Federal Leverage

State funding is matched by $610,000 in FY27: $378,000 from partner schools, which provide classroom space, advisor stipends, and transportation, and $232,000 in awarded private grants and gifts.

Private giving grew from $52,000 to $232,000 in one year.

For about $12 more per student, New Mexico keeps the experienced staff behind a program reaching 4,071 students in 106 Title I schools.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #8: Athletics (Intercollegiate)

FY28: NEW REQUEST

OVERVIEW & REQUEST

Priority #8: Athletics (Intercollegiate)

New

Core Mission & State Need

To provide a variety of intercollegiate competitive sporting activities for New Mexico Tech students with structured opportunities for competition, leadership development, teamwork, personal growth, social connection, and physical and mental wellbeing.

Target Population: Serves about 130 students (undergraduate and graduate) annually and over 10% of our undergraduate student population.

Primary Scope & Operations

Intercollegiate: Support six competitive teams (Men's and Women's Rugby, Men's and Women's Soccer, Esports [co-ed], Bouldering [co-ed]).

Quality Assurance: Maintain qualified coaches and provide quality mentoring for all six teams.

Support: Provide support (e.g., travel, equipment and supplies, professional services) for training and approved competitions.

FY28 REQUEST SUMMARY

$420,000 Total Base *(New) · **2.4 – 3.0 New FTEs** (Part-time coaching positions) with funding for travel, equipment and supplies, and other professional services.

PERFORMANCE & IMPACT

Athletics (Intercollegiate): Accomplishments and Impact

🏆 Recent Milestone Accomplishments

Rugby:

- Men's American College Rugby 15s Division III National Champions (2022), Fourth Place (2025).
- Men's National Collegiate Rugby 7s National Champions (2022), National Qualifier (2026).
- Women's National Collegiate Rugby 7s National Qualifier (2026).

Esports:

- League of Legends National Champions (2023, 2024, 2026).
- Rocket League National Champions (2026).
- Super Smash Bros. Ultimate Regional Champions (2023).

Individual Recognition:

- 2025-2026 Individual Recognition included All-American, Scholastic All-American (5), and All-Star (2) status.

🏘 Statewide & Community Value

Impact: These programs create opportunities for social interaction, strengthen campus and community relationships and belonging, foster school spirit and tradition, and provide students with a healthy outlet from the demands of a challenging academic environment.

Talent Recruitment: Adds another dimension to the collegiate experience when prospective students are considering where to enroll.

Service: Ability to host regional matches and tournaments, provide climbing clinics or other outreach for community participants.

These activities would connect Socorro with schools, clubs, and visiting teams from across New Mexico, create opportunities for community participation, and introduce prospective students to New Mexico Tech.

FINANCIAL JUSTIFICATION & SUSTAINABILITY

Athletics (Intercollegiate): Budget Overview

Salary & Benefits	Travel	Supplies & Equipment	Other (Physical Therapy)	Total FY28 Request
$243,000	$100,000	$65,000	$12,000	$420,000

Co-Investment

Every attempt will be made to combine part-time coaching positions with open positions at the institution (e.g., admission recruiter, student success coach, advancement gift officer).

Supplemental Support

Student fees and private giving can continue to supplement this investment, with one-time funding to support postseason and national-level competitions.

NMT's small student population limits the revenue available from student fees. These programs are unlikely to generate ticket sales, media, or broadcast revenue. Consequently, public funding is supporting access and statewide participation opportunities that a fee-dependent model would limit.

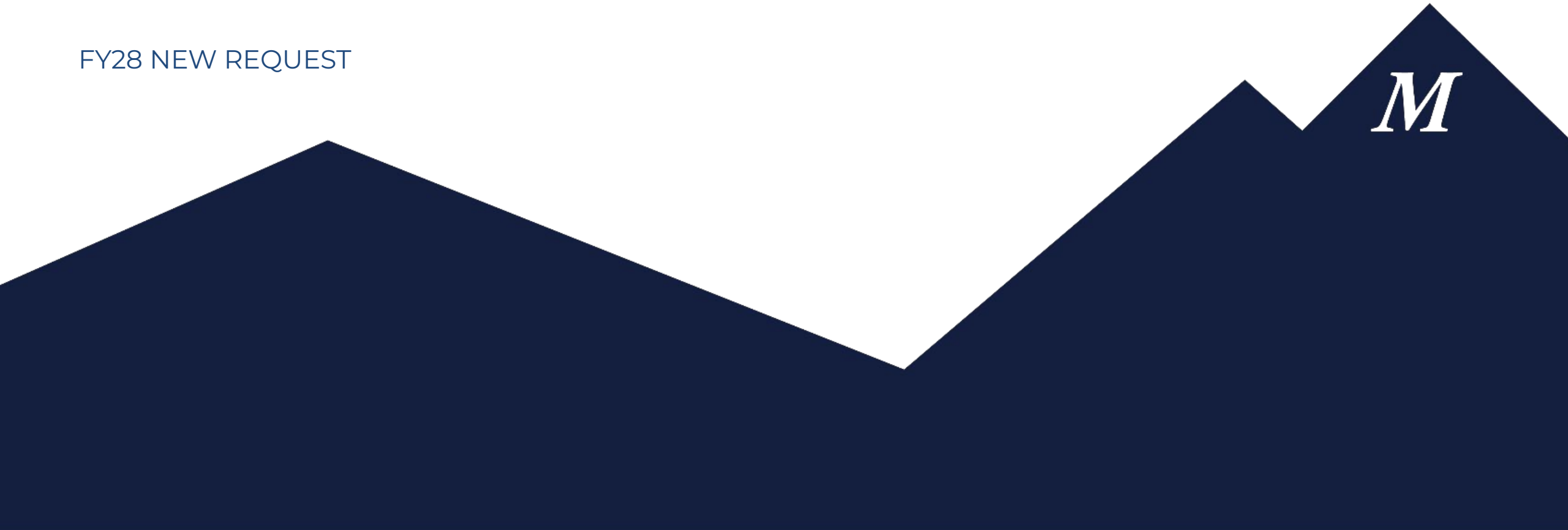
Prior funding incorporated into New Mexico Tech's I&G base is used to support a Director, an Administrative Assistant, and a Coordinator for the institution's intramural and recreation education programs. This funding request is for Intercollegiate Athletics.

Offers New Mexico Tech with equitable support when compared to NM's sister institutions by providing students with opportunities to represent the University in organized competitions beyond the campus while promoting belonging, well-being, and leadership opportunities.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #13: New Mexico Materials Metrology & Modeling (NM4)

FY28 NEW REQUEST



OVERVIEW & REQUEST

Priority #13: New Mexico Materials Metrology & Modeling (NM4)

New

Core Mission & State Need

The NM4 facility will provide easy access to state of the art tools & training for critical materials metrology & measurement, and materials experts for analysis & modeling.

State Alignment: NM4 will align with NMEDD & NM target industry sectors: Aerospace, manufacturing, quantum, energy, water. It will educate the next generation to employ in NM.

Target Population: NM4 will serve NM students, faculty, researchers, entrepreneurs and businesses engaged in advanced & critical materials R&D, processing & manufacturing.

Primary Scope & Operations

Materials Services: Prompt and reliable chemical, structural & microstructural analysis and material property measurements.

Highly Skilled Tech Training: Provide technical training for undergraduate and graduate students

Outreach: Attract NM K-12 to materials science & engineering. Educate citizens & leaders about its role in tech development & manufacturing. Engage with NM businesses.

FY28 REQUEST SUMMARY

$ 700,000

NON-RECURRING ITEMS

Includes: $ 70,000 (Digital microscope with LIBS)

PERFORMANCE & IMPACT

NM4: Objectives & Measurable Outcomes

4 / 4-8 Staff/Students
Technologist, Research Sci., Director

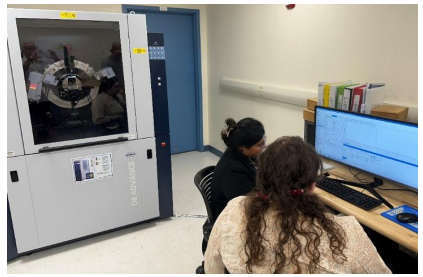
300 Users
Students, faculty, research staff, industry customers/partners

$ 10M
Added Extramural Research Funding

Groundwork & Current Operation

- **Staff:** 1 technologist with department chair oversight.
- **Capital Equipment:** >$5 M new equipment acquired by department faculty through federal research grants
- **Users:** >100 users/trainees in FY26: 4 industry, 6 NMT faculty, students





Statewide Impact

Workforce & Jobs in NM: Materials measurement & modeling are high demand skill sets – immediate placement SNL, LANL, high tech industry.

Economic Value: NM4 will accelerate growth & enhance competitiveness of small business & attract new high tech to NM.

Education Enhancement: NM4 will give more students the opportunity for hands-on training with advanced tools.

FINANCIAL JUSTIFICATION & SUSTAINABILITY

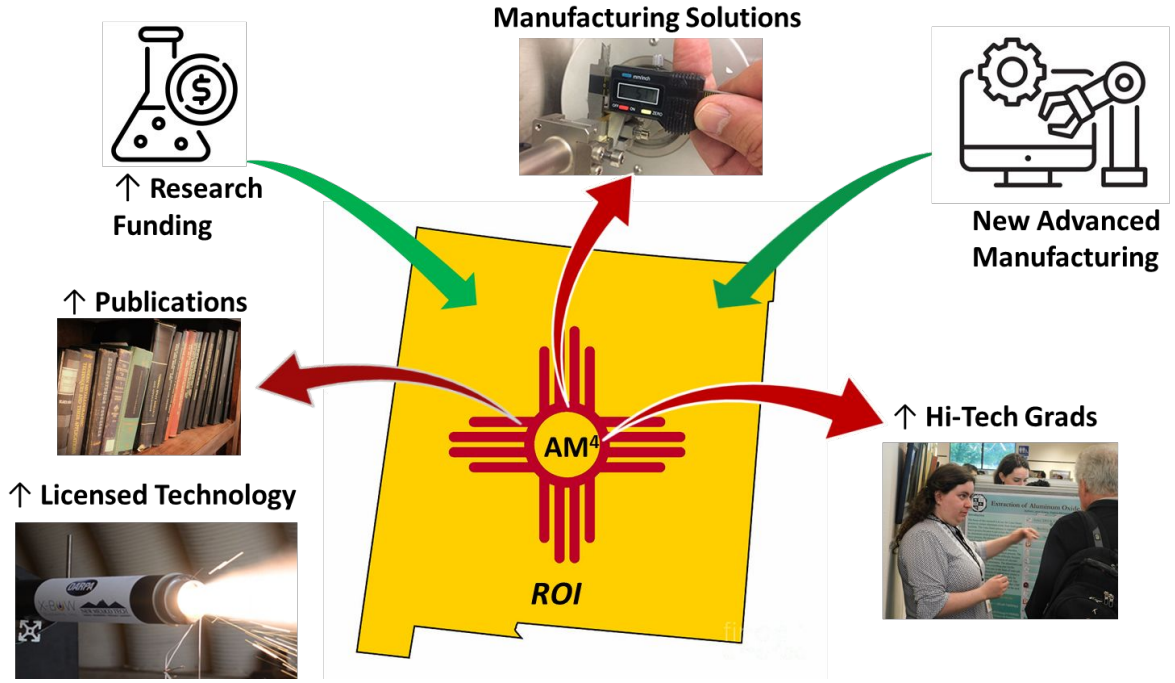
NM4: Budget & Sustainability Plan

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 New Request	Total FY28 Request
$0	$0	$ 0	**+$ 700,000**	**$ 700,000**

Need: A permanent technical & administrative staff to retain know-how, maintain equipment and provide continuity of services.

Self-Sustainability Plan: Following the incubation period, NM4 will develop a fee structure for sustainability. User fees will cover supplies, equipment upgrades and service contracts, and federal award cost share requirements.. Significant company consortium fees and center sponsorships could allow NM4 to be self-sustaining in 10 years. RPSP funds will be used to continue to innovate and upscale, and support faculty projects and student fellowships and internships.

State ROI & Federal Leverage



NM4 will augment materials research, train the workforce and assist and attract hi-tech businesses.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Priority #9: STEM Center Pathways for Student Success

FY28: NEW REQUEST

Priority #9: STEM Center: Pathways for Student Success

New

Core Mission & State Need

Connect New Mexico students, especially rural and tribal students, to STEM education and careers.

- No-cost Summer STEM Experience
- Relevant Experiential Applied Learning (REAL)

State Alignment: advances New Mexico's cradle-to-career goals by expanding STEM access, strengthening college persistence and completion, and preparing students for high-demand careers that support the state's workforce and economy.

Target Populations

New Mexico high school students and New Mexico Tech undergraduates with particular emphasis on:

- First-generation,
- Low-income,
- Rural, and
- Tribal students

who may face barriers to STEM access and success.

FY28 REQUEST SUMMARY

$1,023,000 Total · 3 professional positions, 2 faculty, 5 student staff.

NON-RECURRING ITEMS

$30,000 program development

PERFORMANCE & IMPACT

STEM: Progress Data & Measurable Outcomes

30%
Approximate number of Summer STEM Student who Attend NMT

84.9%
Fall 2025 Retention Rate

218
Attended First Mandatory Week Zero event

Recent Milestone Accomplishments

Summer STEM 2026: 129 Student attend Summer STEM in June and July 2026

Summer STEM 2025 and 2026: Students came for 18 New Mexico counties

Industrial Master Plan: Authored City of Socorro ED Master Plan with Bohannan Huston

Statewide & Community Value

Increased Rural and tribal access to STEM study

College persistence and career preparation

Partnerships with schools and employers

FINANCIAL JUSTIFICATION & SUSTAINABILITY

STEM Center: Budget Overview & Sustainability

FY26 Expenditures	FY27 Awarded Base	FY28 Base Request	FY28 Expansion Request	Total FY28 Request
			$1,023,000	$1,023,000

Co-Investment & Regional Need

Continued support from state partners through Summer STEM scholarship including Socorro Electric Coop and Freeport McMoran

High-Yield State Return

Investment in the STEM Center will deliver a strong return for New Mexico by increasing STEM degree completion, preparing graduates for high-demand careers, and strengthening the state's workforce and economy.

NEW MEXICO TECH

Questions

visit us at nmt.edu ■ president@nmt.edu

THANK YOU