TECHNOLOGY ENHANCEMENT FUND (TEF) AWARD RECOMMENDATIONS TO DATE (IN ANTICIPATION OF FEDERAL GRANT AWARD MATCH FUNDS NEEDED)

Applicable Round that Request was Reviewed & Recommended for Proposed Funding Q0 (2022) or Q1/Q2 (2023)	School(s) Prompting Request for TEF Matching Funds	Project Title / Description	$$ Amount *(in thousands)*	Research Impact	Educational Impact	Economic Impact	Budget Justification	Energy, Equity, & Environ. Justice Impact	Equity, Inclusion, & Diversity Impact	Institutional Funding Source
Q0 (2022)	UNM	Integrative treatment for Achieving Holistic Recovery from Comorbid Chronic Pain and Opioid Use Disorder	$1,250	✓	✓	✓	✓	⊗	✓	✓
Q0 (2022)	UNM	MRI: Acquisition of an X-Ray Micro-Computed Tomography Scanner for Specimen-Based and Material Science Research	$187	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	UNM	UNM FIRST: Promoting Inclusive Excellence in Neuroscience and Data Science	$2,000	✓	✓	✓	✓	⊗	✓	✓
Q0 (2022)	UNM-Taos	HIVE Pollinator	$315	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	UNM	Hurteau_Wildlife Habitat Analysis for Conservation	$164	✓	✓	✓	✓	⊗	✓	✓
Q0 (2022)	UNM	Solid-State Mixed-Potential Electrochemical Sensors for Natural Gas Leak Detection and Quality Control	$99	✓	✓	✓	✓	✓	⊗	✓
Q0 (2022)	UNM	Teachers Organizing Diverse Opportunities Across a STEM Ecosystem (TODOS)	$447	✓	✓	✓	✓	⊗	✓	✓
Q1/Q2 (2023)	UNM	Engineering Research Center on New, Equitable, Responsible, and Adaptable Housing (NewERAH)	$590	✓	✓	✓	✓	✓	✓	✓

Q1/Q2 (2023)	UNM	NSF Engines: Type-1: Regional Advancement Leveraging Innovations for Water and Energy Security Transformation (RALI-WEST)	$1,000	✔	✔	✔	✔	✔	✔	✔
Q1/Q2 (2023)	UNM	UNM: Bridges: Workforce Development Educational Programs for for Data Science, Computational Science, and Cybersecurity	$500	✔	✔	✔	✔	✔	✔	✔
Q1/Q2 (2023)	UNM	Protecting New Mexico's Electric Grids - development of arresters for improved EMP protection	$150	✔	✔	✔	✔	✔	✔	✔
Q1/Q2 (2023)	UNM	UNM_Muldavin_NMHabMap	$780	✔	✔	✔	✔	✔	✔	✔
Q1/Q2 (2023)	UNM	Albuquerque Tech Hub Consortium Strategic Development Grant	$100	✔	✔	✔	✔	✔	✔	✔
Q1/Q2 (2023)	UNM	Growing the Quantum Information Science and Engineering Ecosystem at the University of New Mexico	$500	✔	✔	✔	✔	⊗	✔	✔
Q1/Q2 (2023)	UNM	UNM_Ferenchak_Center for Pedestrian and Bicyclist Safety	$399	✔	✔	✔	✔	✔	✔	✔
Q0 (2022)	UNM HSC	Thinking Zinc: A Study of Zinc Supplementation to counteract toxicity associated with exposure to environmental metal toxicants	$500	✔	✔	✔	✔	✔	✔	✔
Q0 (2022)	UNM HSC	NM Project for Children & Youth who are Dea/fBlind	100	✔	✔	✔	✔	✔	✔	✔
Q0 (2022)	UNM HSC	State-of-art cell sorting instrument for biomedical research	400	✔	✔	✔	✔	⊗	✔	✔
Q0 (2022)	UNM HSC	Enhancing Career pathways for underrepresented	400	✔	✔	✔	✔	✔	✔	✔

		minorities in clinical and translational research		✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	UNM HSC	TelEquity	250	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	UNM HSC	Access to Kidney Transplantation in Minority Populations	375	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	Electric version of Child Health Initiative for Lifelong Eating and Exercise (CHILE) program	289	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	Healthy Places—Healthy People Digital Transformation of Public Health Interventions	750	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	Vaccines for Alzheimer's disease	750	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	NM Microplastics Research Center	800	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	Improving Neonatal Care in New Mexico	250	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	High performance computing for mental health analytics	350	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	UNM HSC	Microbiome and Immune Networks in Sarcoidosis	661	✓	✓	✓	✓	⊗	✓	✓
Q1/Q2 (2023)	UNM HSC	Center for Healthcare Equity in Kidney Disease (CHEK-D)	500	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMSU	Analytical Instrumentation Suite for Research in Energy, Agriculture, Water, and Materials Science	$1,961	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMSU	Chemistry and Biochemistry Molecular Structure Determination Core	$651	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMSU	Technology Enhancement for a Biomedical Research	$2,762	✓	✓	✓	✓	⊗	✓	✓

		Facility at an HSI on the US-Mexico Border								
Q1/Q2 (2023)	NMSU	Carrizo Pumped Storage Hydropower: Seasonal Storage for Fully Decarbonized Grids	$2,000	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMSU	Pilot demonstration of innovative water reuse and brackish water desalination technologies to bolster New Mexico's water supply	$530	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMSU	Integrated Digitally-connected Enterprise Accelerator Laboratory (IDEAL): A Grid Modernization Technologies Demonstration Site	$1,600	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMSU	Antivirulence Approaches to Treat Algal Crops (AVATAC)	$250	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMT	2022-2024 NM STATEMAP - Geological Studies in New Mexico	$766	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMT	Equipment: Raman Microscope	$170	✓	✓	✓	✓	✓	⊗	✓
Q0 (2022)	NMT	NM Water Data Initiative: Improving water data access for modeling in the middle Rio Grande	$197	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMT	Additive manufacturing for space applications	$112	✓	✓	✓	✓	✓	⊗	✓
Q0 (2022)	NMT	Hydrophilic-omniphobic HF membrane-based DCMD and crystallization for zero liquid discharge of oilfield produced water	$114	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMT	AFRL Southwest Regional Partnership Intermediary Agreement	$297	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMT	CarbonSAFE Phase III	$231	✓	✓	✓	✓	✓	✓	✓
Q0 (2022)	NMT	CORE-CM Assessment	$123	✓	✓	✓	✓	✓	✓	✓

Q1/Q2 (2023)	NMT	Hydrogen Production by Subsurface Crude Oil Gasification (HPSOG)	$1,753	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMT	An Investigation of Antimicrobial Resistance and its Removal in Wastewater Treatment Plants Across the Nation	$45	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMT	CORE-CM Assessment	$125	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMT	Non-Invasive and Self-Learning Health Monitoring Wearables for NASA Astronauts	$276	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMT	2023-2025 NM STATEMAP - Geologic Mapping in New Mexico	$640	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMT	Subsurface Seismic Structural Characterization of the Hogback Monocline and Thermal Characterization of the San Juan Basin, New Mexico	$274	✓	✓	✓	✓	✓	✓	✓
Q1/Q2 (2023)	NMT	Studying Lightning Attachment to Important Energy Infrastructure	$18	✓	✓	✓	✓	✓	⊗	✓

UPDATED Technology Enhancement Fund (TEF) Rubric   revised 8/22/2023

For a proposal to be eligible for TEF funding, it must check off on five of the seven categories below, but preferably in all seven, recognizing, however, that credible proposals may not always meet all seven categories.

□ **Research Impact: Potential outcomes that enhance research and benefit New Mexico.**
   o Innovative Foundational Research: Discovery and fundamental research principles that spur innovation.
   o Applied Research: Identifying solutions to specific research problems or issues.
   o Instrumentation: Equipment to further research aligned with economic priorities.
   o Collaborative Research: Collaboration with corporate organizations, nonprofit organizations, other eligible institutions, or other public entities

□ **Educational Impact: Potential outcomes that enhance higher education and benefit New Mexico.**
   o Undergraduate training

o Graduate training
o Post-doc training
o Community engaged educational activities

☐ **Economic Impact – State Priority: Alignment with New Mexico's economic priorities.**
    o Evidence of enhanced knowledge transfer
    o Creates or leads to new products
    o Creates or leads to new production processes
    o Impact on Workforce

☐ **Budget Justification: The proposed budget is necessary, reasonable, and justified.**

☐ **Energy, Equity, and Environmental Justice (EEEJ) Impact: Sustainability and resilience within New Mexico** (e.g., impact on environment; climate change, sustainable resources).

☐ **Equity, Inclusion, and Diversity (EID) Impact: Potential for positive impact on underserved populations** (e.g., increased diversity, equity, inclusion; rural and Tribal community development; access; health care disparities).

☐ **Institutional Funding Source:** Identify the source and eligibility of the institutional share