

Capital Outlay Request Report

018 - Vocational Trades Center Building

Business Case Status

Pending Start

Scope of Work

Request				
Institution	NMSU - Carlsbad		~	
Project Title	Vocational Trades Center Building			
	Building	Building Age		Building GSF
Building(s)	Carlsbad Vocational Trades Center	0.00		0
Project Location	See campus map site plan		Project Map	Project Map Link
FY Priority #	1		Master Plan Priority #	1
Total Project Cost	\$12,000,000		State Funding Request	\$4,000,000
Committed Match Funding	\$4,000,000		Match Funding Source	Carlsbad institutional reserve for \$4,000,000 and is seek additional matching fund of \$4,000,000.00 from external sources such as business and industry.
Construction Type	New Construction			
Previous Request Summary	N/A			
History of Facility	N/A			
Current Condition	N/A			
Renovation Information	N/A			

The Vocational Trades Center project will construct a new facility to provide postsecondary education and life-learning opportunities training to improve job-seeking skills and workplace development on the Carlsbad campus. NMSU hired an architectural consultant, Nine Degrees Architecture & Design, Inc., to assist in developing a feasibility study, draft document dated May 2021. The new vocational facility will develop a physical structure to experience in a career in business or opportunities in the oil and gas industry, and other various fields of study. The overall goal is to offer some of the most innovative and state-of-the art training and workforce facilities in the Carlsbad region, for upcoming trades. Planning for new construction to provide postsecondary education and life-learning opportunities training to improve job-seeking skills and workplace development. A training facility designed for flexible and technologically-advanced learning environments that is safe, accessible, healthy, comfortable, and aesthetically-pleasing with the Carlsbad campus context. The building will need to accommodate the specific space and equipment needs of the training program and curriculum. The Carlsbad Campus serves a host community population of approximately 55,000 residents in Eddy County, with a significant portion of students commuting from the neighboring City of Artesia. The main industries in the area are in oil and natural gas exploration and agriculture. Partners in this venture are the Carlsbad business and industry with the Carlsbad campus. Currently, Carlsbad does not have an existing building that meets these space needs. The proposed Carlsbad facility is planned for up to approximately 17,000 gross square feet. Space Types Carlsbad Vocational Trades Center space needs: • academic classroom(s), • hybrid lab/classroom, • learning lab(s), • computer training room, • trainee storage spaces with lockers, • business stations, • lobby entry, • restrooms, • administrative offices, • trainee offices, • operationa

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Phases

Complete table if this project request contains multiple projects or if the project can be phased. List in priority order:

Phase #	Description	Part of Request	Amount	Start Date	End Date
1	Full Project		\$0	0.00 7/1/2023	12/31/2025

Students Impacted

Provide the instructional program majors being served by this project:

Major HeadCount FTE	% Growth Last Year	% Growth Average	
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Enrollment

Provide Fall Semester enrollment data per year as reported on the NMHED website/eDEAR:

	Year	FTE	OFTE
lata D	2013	1894	627
	2014	1953	573
	2015	2007	576
	2016	1872	516
	2017	2054	534
	2018	1890	587
	2019	2045	650
	2020	1379	637

B. Project Rationale and Need:									
Measure B1: Projects promotion	of enrollment growth, reter	tion, and deg	ree production						
B1 Score	Substantially	~							
B1 Explanation	NMSU Carlsbad strives to meet the needs of students, community, business, and industry through education, training, and workforce development. The College offers certificates and programs in vocational or Career Technical Education (CTE). However, one of the challeges to growth in enrollment, persistence, retention, and graduation/completion is space limitations for vocational programs. This lack of space has been a major limitation to program expansion and enrollment increase. As a result of this, the necessity of building a vocational trades center becomes apparent. The College has stipulated incremental targets for enrollment (2500 by 2025), retention (Fall to Fall – 60% by 2025 and Fall to Spring 85% by 2025), and completion (25% by 2025) and through the increased efforts of all campus entities, the Institution will measure the success through key element of the College's Strategic Plan.								
Measure B2: Projects impact on	education and workforce ne	eds in local an	d regional economies						
B2 Score	Substantially	~							
B2 Explanation	The vocational trades center will expand the capacity of the college to provide students the education and workforce training essential in meeting the needs of the community, business, and industry. The College has outgrown the small building space shared with facilities and maintenance. The welding program for example has a few stations despite the higher enrollment demand for the program.								
Measure B3: Projects support of HEI Strategic Plan or Facility Master Plan Demonstrate project alignment with institutional mission and how project advances the institution's strategic or facility master plan.									
B3 Score	Substantially	~	Master Plan		Master Plan Link				
B3 Explanation	engagement to advance highly maximize campus enrollment listed in the campus master pl for an increase in space. The n	capable gradu and the retention an, along a refe aaster planning	ates Goal 4: Economic Development Be a driving force for economic and completion of the NMSU Carlsbad student population rence to information technology, campus utility planning, and document emphasizes this project placed on vocational educ	onomic progress The project suppo d energy manage ation and Aggie F	rovide effective academic programs, stellar teaching and learning, and enhanced student in New Mexico Goal 6: Enrollment, retention and Completion Initiate activities to orts NMSUC 5-year strategic plan (attached) NMSU Carlsbad Five Year Plan is specifically ment. The vocational training center has been planned for growth of vocational programs Pathways, noting that an expansion of trades may require an increase in space over the life a Early College High School, making the Carlsbad campus an ideal location for this				
Measure B4: Facilities Assessme	ent								
Provide the facility's most recent cond	dition score and summarize the m	ajor structural ai	nd systems conditions that resulted in that score. Provide selected	d supporting docur	mentation in appendices and reference them in the body of the proposal.				
B4 Level of Study Completed	Somewhat	~	Study		Study Link				
Cost to Repair	\$0		Cost to Replace		\$0				
Replacement Cost Basis (\$ per SF)	\$0		Cost to Repair A	AFTER Project	\$0				
B4 Explanation	computed as a ratio of the tot	al cost to remed	dy identified deficiencies to the current replacement value of	the building. The	The FCI is used to benchmarking and compare a facilities relative condition. The index is facilities assessment included Alamogordo, Carlsbad, Dona Ana, Grants, and all buildings uction. The overall impact to the facility condition index by campus is an addition of a new				
Measure B5: Projects impact on Provide information on how this proje			ampus instruction.						
B5 Score	Somewhat	~							
B5 Explanation	Maintenance Technician (Elect Industrial Maintenance Technic	rical) - Associat ology (Electrical	e of Applied Science Industrial Maintenance Technician (Mec) - Certificate Natural Gas Compression Technology - Certifica	hanical) - Associa te Building Techn	tional Trades Building will support the following programs and certificates: Industrial ate of Applied Science Industrial Maintenance Technology (Mechanical) - Certificate nology - Associate of Applied Science Building Trades - Certificate Engineering - Associate of also programs in development stage designed to meet the workforce needs.				
C. Green Screen for Buildings									
Measure C1: Energy Audit or sin	nilar energy assessment								
Document details of the audit to inclu	de who performed the audit, whe	n it was complet	ted, level of audit/assessment, improvements proposed, and bene	efits to this project					
C1 Score	Substantially								

In 2003 American profession of a function in virtual region golds and of 6 of MMXIVs building enhance to a flat building on the mail and justified on the state of the state o	Energy Audit Completed	© Yes ○ No	Energy Audit	Energy Audit Link
Courte Energy Language The project Set The project Set The project Set Set The project Set	C1 Explanation	Ana Community College (DACC), Grants, remote Agricultural Science Centers, and all bu savings of projects. List of Green Screen strategies that will be incorporated in the proje	ildings on the main campus. NMSU act during construction include: • Cor	also employees two Certified Energy Managers (CEM) who can look at the potential energy
Separation Some S	Measure C2: Projects impact on	Energy / Utility Cost Reduction		
NNSUS building juicelines includes policists the mocuraging energy reduction with nearly every project. Afterwards projects frozing and early reduction such as the American operation of the American operation operation of the American operation of the American operation operation of the American operation operation operation operation operation of the American operation	Explain the impact of this project to t	the net energy / utility costs. Provide a justification if no operating budget impact is anticipated		
With each project resulting in energy savings there will also be a stillty cost savings which can result in an observable change. When the equipment is replaced with more a system with increased efficiency there will be reduction in costs. However, the equipment change can also change the system maintenance requirements as well and without knowing what the replacement system will be we are unable to make accurate predictions. Results of Executive Order (EO) 2019-003 Provide detailed information on how the project will oddiness the good of reducing Green Hoose (loss (GMG) emissions by 45% as called for in the EO. Explain the stops taken to reduce the buildings energy demands. CI Score Somewhat For military and the stop of the stop of the stop of reducing Green Hoose (loss (GMG) emissions by 45% as called for in the EO. Explain the stops taken to reduce the buildings energy demands. CI Score Somewhat For military and the stop of the s	Current Energy Usage	\$0	Energy Usage AFTER Project	\$0
C3 Score Somewhat The project will address the goal of reducing Green House Gos (GHG) emissions by 45% as called for in the £0. Explain the steps taken to reduce the buildings energy demands. C3 Score Somewhat The project Schemate Standard Schemate S	C2 Explanation	With each project resulting in energy savings there will also be a utility cost savings which be a reduction in costs. However, the equipment change can also change the system may	ch can result in an observable change	e. When the equipment is replaced with more a system with increased efficiency there will
C3 Score Somewhat For main campus over 95% of MMSU's scope 1 and 2 emissions as imiliar distribution of emissions is expected for Carbabad as well. Reaching the goals within EQ 2019-003 for greenhouse gas and more. D. Stewardship- Detail how the HBI provides stewardship for its assets. Measure D1: Project Estimates Describe how this projects contentionates were developed. Provide the total dislinar stricture will be required. NMSU building guidelines insure projects keep in mind sustainable infrastructure and planning, energy efficiency technologies, and more. D. Stewardship- Detail how the HBI provides stewardship for its assets. Measure D1: Project Estimates Describe how this projects contentionates were developed. Provide the total dislinar stricture of inflation. Percentage increases MUST be defended in the narrative portion of the document, or Oli inflation will be assumed. D1 Score Substantially Dollars Related to Inflation S876,645 Formal Estimate Formal Estimate Provided A territory of the capital outsy needs begins with the University Architect (LIA), who stays in touch with the needs of the education enterprise through communication on various levels. Each year, the cyara. The Capital Outsy prediction and services set up an in-person menting with the Community College Presidents and Deans of the Colleges to review the capital outsy requests for the year. The Capital Outsy prediction and services are produced with the use of 2000 Proisi Estimate is assigned directly to the in-house professional estimators with Ending with the Community College Presidents and Deans of the Colleges to review the capital outsy requests for the year. The Capital Outsy prediction as services the Secretary Administrative Council, and the flowchart that outlines the process for a project concept to become a priority on NMSU's New Year Facilities Plan. The capital Outsy prediction as services are produced with the sevent as sealing directly to the in-house professional estimators with Endinge that the related an	Measure C3: Executive Order (E	0) 2019-003		
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D3 Score Somewhat V	Measure D3: Asset Stewardship	Provide information on how the HEI supports the ongoing operational and maint	enance needs of current and pro	posed assets.
	D3 Score	Somewhat		

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Level of Plan	Somewhat	~)	BRR Plan

D3 Explanation

NMSU Carlsbad is in the process of developing a formal BRR process. Using the existing Master Plan, the process began 5 years ago, with a report of study of needed preventive maintenance. Much of this information was incorporated within the School Dude system which generates timely tickets indicating what type of maintenance needs to be conducted at each interval. For example, HVAC filters are replaced quarterly and each quarter, the system generates a ticket to be addressed by the maintenance technician. Each year, the campus has expanded this process by performing studies of various areas of the college, highlighting specific areas of concern, with those areas being address in that year and less urgent areas being noted for inclusion and prioritized in the future formal process. As an example, a few years ago, the campus conducted a life safety audit to determine ways to upgrade the safety of students, faculty and staff. While the building is in compliance with the requirements at the time it was built, the campus felt it was important to incorporate some of the more recent safety features that have been added to the code since its construction. The more significant of these were completed, such as expanding firewalls in hall ways, with some of the less essential items identified being relegated to a future project. Having already completed the necessary groundwork, the campus is ready to codify the findings of the last several years in to a formal 5-year plan for the use of our BRR funds using the existing Facilities and Instructional standing committee as a vehicle for campus input into prioritizing the items. The vision is to use the resulting plan as the basis for expending these funds going forward.

Measure D4: Maintenance Cost Reduction

Describe in detail how this project will affect operating appropriations for the current year and all out-years. Provide a justification if no operating budget impact is anticipated.

Total O&M Budget \$0 Total O&M Budget AFTER Project

D4 Explanation

NMSU Carlsbad has consistently optimized the use of its resources in asset management and maintenance. Its management of budget allocation and the effective use of resources provide a clear indication how it plans to support the ongoing operational and maintenance needs of its assets including the proposed vocational trades center. Low maintenance cost is expected in the first few years of the new building. NMSUC will allocate funding for maintenance of the proposed building as part of the budgetary process.

Measure D5: Health, safety, and security

Describe how this project will address major health and safety issues/concerns on campus, including how it will improve physical safety and cybersecurity on campus. Provide selected supporting documentation and reference them in the body of the proposal.

D5 Score	A single plan	~		
Level of Plan	Level 1	~	HSS Plan	HSS Plan Link

D5 Explanation

Safety considerations, security, parking and fire protection will be considered in the analysis of space needs and new construction. The facility will be designed to have adequate parking proximity and access to transit, adequate security and access systems, and safe levels of interior and exterior lighting.

Definitive Pro® 7/12/2021

Appropriation Lanaguage

\$4,000,000 to plan, design, construct, renovate, furnish and equip a new Vocational Trades Center building at New Mexico State University- Carlsbad in Eddy County.

Follow up Questions

Starting Fiscal Year	2021	Expense Type					
Planned Project Start		Planned Project Finish					
Investment to Date	\$0	Funds Needed By	Funds Needed By				
Discounting Switch	Off	% Complete	0%				
Discount Rates	2022: 0.00%	2023: 0.00%	2024: 0.00%	2025: 0.00%			

Forecast							
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total	Notes
Pre-Project							Definition: Non-recurring cost to get to an approved and funded project.
Internal Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Software \$	\$0	\$0	\$0	\$0	\$0	\$0	
Hardware \$	\$0	\$0	\$0	\$0	\$0	\$0	
Facilities and Power \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Outside Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Telecom \$	\$0	\$0	\$0	\$0	\$0	\$0	
Other \$	\$0	\$0	\$0	\$0	\$0	\$0	
Total Pre-Project	\$0	\$0	\$0	\$0	\$0	\$0	
Project							Definition: Non-recurring cost to implement and field the product or service.
Internal Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Software \$	\$0	\$0	\$0	\$0	\$0	\$0	
Hardware \$	\$0	\$0	\$0	\$0	\$0	\$0	
Facilities and Power \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Outside Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Telecom \$	\$0	\$0	\$0	\$0	\$0	\$0	
Other \$	\$0	\$0	\$0	\$0	\$0	\$0	
Total Project	\$0	\$0	\$0	\$0	\$0	\$0	
Post-Project							Definition: Recurring cost to support the product or service through the end of the planning horizon.
Internal Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Software \$	\$0	\$0	\$0	\$0	\$0	\$0	
Hardware \$	\$0	\$0	\$0	\$0	\$0	\$0	
Facilities and Power \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Outside Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Telecom \$	\$0	\$0	\$0	\$0	\$0	\$0	
Other \$	\$0	\$0	\$0	\$0	\$0	\$0	
Total Post-Project	\$0	\$0	\$0	\$0	\$0	\$0	
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total	Notes
Revenue							Definition: Incoming revenue associated with the product or service.
<source 1=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 2=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 3=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 4=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 5=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 6=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 7=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
<source 8=""/> \$	\$0	\$0	\$0	\$0	\$0	\$0	
Total Revenue	\$0	\$0	\$0	\$0	\$0	\$0	
Cost Reduction							Definition: Money saved that is being spent today. True cost take-out.
Internal Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Software \$	\$0	\$0	\$0	\$0	\$0	\$0	
Hardware \$	\$0	\$0	\$0	\$0	\$0	\$0	
Facilities and Power \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Outside Services \$	\$0	\$0	\$0	\$0	\$0	\$0	
Telecom \$	\$0	\$0	\$0	\$0	\$0	\$0	
Other\$	\$0	\$0	\$0	\$0	\$0	\$0	
Total Cost Reduction	\$0	\$0	\$0	\$0	\$0	\$0	
Cost Avoidance							Definition: Preventing money from having to be spent that is not currently being spent today.
Internal Staff Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
Internal Contract Labor \$	\$0	\$0	\$0	\$0	\$0	\$0	
External Staff Labor \$	\$0	\$0	\$0	\$0 \$0	\$0	\$0	
External Contract Labor \$	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0	
Software \$	•	•	\$0 \$0	· ·		\$0 \$0	
Hardware \$	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
Facilities and Power \$	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
Internal Services \$ Outside Services \$	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
Telecom \$	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	
Other \$	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
Total Cost Avoidance	\$ 0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	
Total Benefit	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
rotal benefit	\$0	\$0	\$0	\$0	\$0	\$0	

		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
Total Pre-Project		\$0	\$0	\$0	\$0	\$0	\$0
Total Project		\$0	\$0	\$0	\$0	\$0	\$0
Total Post-Project		\$0	\$0	\$0	\$0	\$0	\$0
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0
Total Revenue		\$0	\$0	\$0	\$0	\$0	\$0
Total Cost Reduction		\$0	\$0	\$0	\$0	\$0	\$0
Total Cost Avoidance		\$0	\$0	\$0	\$0	\$0	\$0
То	tal Benefit	\$0	\$0	\$0	\$0	\$0	\$0
Return		\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Return		\$0	\$0	\$0	\$0	\$0	\$0
ROI %		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cumulative ROI %		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%



