

Office of the Chief Financial Officer and Treasurer

December 22, 2022

The Honorable Eric J. Holcomb Governor of the State of Indiana Statehouse Indianapolis, IN 46204

Dear Governor Holcomb:

At its meeting on December 2, 2022, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for the Mechanical Engineering Building Renovation on the West Lafayette campus.

This project will renovate approximately 41,000 GSF of existing space on multiple floors of the building. New collaboration space will be added on the ground and first floors, and improved instructional labs and classrooms will be relocated nearby.

This project builds upon the College of Engineering master plan to accommodate enrollment growth through the renovation of multiple facilities over time. The renovation is in alignment with University space administration strategies, and it will result in increased space efficiency and flexibility while accommodating more students per assigned square foot (ASF) within the existing building footprint.

The estimated total project cost is \$25,000,000 and is funded by Gift Funds.

Subject to review by the Commission for Higher Education and recommendation by the State Budget Committee and the Budget Agency, we request your approval to proceed with this project. Attached are the completed forms that the Commission has prescribed for its review of such projects. We will be happy to answer any questions you or your staff may have or to provide any additional information that is needed.

Sincerely.

Eva Nodine

Vice President and Deputy Chief Financial Officer

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Attachments

c: Seth Hinshaw, Chief Financial Officer, Indiana Commission for Higher Education

Zachary Jackson, Director, Indiana State Budget Agency Jasmine Williams, Assistant Director, Indiana State Budget Kathleen Thomason, Comptroller, Purdue University

Anne Hazlett, Senior Director, Government Relations, Purdue University

PROJECT COST SUMMARY

Mechanical Engineering Building Renovation

Institution:PurdueCampus:West Lafa	University vette	Budget Agency Project No.: Institutional Priority:	<u>B-1-23-2-14</u> <u>N/A</u>
Previously approved by General Asser	nbly: No	Previously recommended by CHE:	<u>No</u>
Part of the Institution's Long-term Ca	pital Plan: <u>Yes</u>		
Project Size: 41,000 GSF (1)	21,562 ASF (2) 0.	ASF/GSF	
Net change in overall campus space:	0 GSF -3,	113 ASF	
Total cost of the project (3): Total cost of the demolition:	\$ 25,000,000 \$ -	er ASF/GSF:	\$ 609.76 GSF \$ 1,159.45 ASF
Funding Source(s) for project (4):	Amount \$ 25,000,000	Type Gift Funds	
Estimated annual debt payment (6):	\$0		
Are all funds for the project secured:	No		
Project Funding: The renovation is being fully funded by Comparison of the Project Funding:	2Ω Γ 1.		
The removation is being fully funded by C	int Funus.		
Project Cost Justification			
This project's scope and cost are describe	d more in the Capital Project Details	section.	
Estimated annual change in cost of bui	lding operations based on the proj	ect: (39,881)	
Estimated annual repair and rehabilit	ation investment (5):	375,000	

- $(1) Gross \ Square \ Feet \ (GSF)\mbox{-} Sum \ of all \ area \ within the \ exterior \ envelope \ of the \ structure.$
- (2) Assignable Square Feet (ASF)- Amount of space that can be used by people or programs within the interior walls of a structure. Assignable square feet is the sum of the 10 major assignable space use categories: classrooms, laboratories, offices, study facilities, special use facilities, general use facilities, support facilities, health care facilities, residential facilities and unclassified facilities. For information on assignable space use categories, see Space-Room Codes tab.
- (3) Projects should include all costs associated with the project (structure, A&E, infrastructure, consulting, FF&E, etc.)
- (4) Be consistent in the naming of funds to be used for projects. If bonding, note Bonding Authority Year (1965, 1929, 1927, etc.)
- (5) Estimate the amount of funding the institution would need to set aside annually to address R&R needs for the project. CHE suggests 1.5% of total construction cost
- (6) If issuing debt, determine annual payment based on 20 years at 4.75% interest rate
- If project is a lease-purchase or lease, adjust accordingly. Note the total cost of the lease in the project cost, and annual payments in project description

PROJECT DETAILED DESCRIPTION - ADDITIONAL INFORMATION Mechanical Engineering Building Renovation

T		D 1 (4) D 1 (2)	D 1 22 2 1 1
Institution: Campus:	Purdue University West Lafayette	Budget Agency Project No.: Institutional Priority: N/A	<u>B-1-23-2-14</u>
<u>Campus.</u>	West Larayette	institutional Friority.	
Description of	Project		
	ll renovate approximately 41,000 GSF total on the groun		-
	e West Lafayette campus. Improved instructional spaces i		•
	new collaboration space nearby. A new elevator will be gineering Building to the Gatewood addition. Mechanica	and the control of th	
TVICORALITOUR Est	gineering Building to the Gutewood addition. Mechanica	in, electrical and plannoning systems will be appliance	
	O ASF of faculty, staff and graduate student office space		
	n the College of Engineering footprint and the application		
	he number of individual offices is being reduced, and open nd student study space in the building.	en office concepts will be utilized instead – allowing	ng the addition of
new class tas al	nd student study space in the building.		
	pose of the Program		
	xisting research labs will be moved out of the building, al ilds upon the College of Engineering master plan to acco		
1 0	ime. The renovation is in alignment with University space		
	flexibility while accommodating more students per assign		-
In dividual ana	on have had minor you evertions through the years but the	a cost voing of the building volcens are costions will a	a a a sum suga da sailt im
	ses have had minor renovations through the years, but the in the 1920s-1940s. Classrooms will be moved to the low		
-	ill also provide increased access to the Gatewood addition	1 11	
	at mechanical, electrical and plumbing (MEP) update was		
	20 years old and nearing the end of their expected lives. Tooms, labs and offices.	the improved systems will serve the areas being rel	novated and some
	Action, these time of the con-		
Space Utilizati	ion		
	composed of the following space types in order of largest	ASF to smallest: Class lab, classroom, office and s	study space. Som
	s existing ASF will be repurposed, resulting in net campu	us gains of class lab and study space; the project al	lso results in net
campus reducti	ons of research, office, classroom and support space.		
As part of the p	proposed renovations, some existing assignable space wil	be converted to new non-assignable spaces, inclu	iding public
	lic circulation such as a new elevator, and building equip		~ .
Comparable P	Projects Iden Brown Family Hall Renovation, 2022		
* \$14,573,0			
* 32,000 GS			
* \$455/GSF			
	ct will renovate or create several instructional labs, lab su	upport spaces, computational research labs, classro	oms offices and
collaboration as	ea.		
Although being	g approved within a short time of each other and having r	relatively similar scopes, this project's cost per square	are foot is higher
than the compa	rable due to the following scope items contributing to the	e cost but not the overall project square footage:	-
	of an elevator; glass windows and storefront are being ad	ded to some areas on the ground floor; and mechan	nical work will be
completed that	supplies rooms not being renovated.		
D 1	T		
Background N	<u>laterials</u>		

CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION

INSTITUTION CAMPUS SPACE DETAILS FOR Mechanical Engineering Building Renovation

		Current Campus Tota	ıls		Capital F	Request	
(INSERT PROJECT TITLE AND SBA No.)	Current Space in Use	Space Under Construction (1)	Space Planned and Funded (1)	Subtotal Current and Future Space	Space to be Terminated (1)	New Space in Capital Request (2)	Net Future Space
A. OVERALL SPACE IN ASF							
Classroom (110 & 115)	336,764	-	(2,532)	334,232	(226)		334,006
Class Lab (210,215,220,225,230,235)	832,343	4,425	(20,888)	815,879		3,125	819,004
Non-class Lab (250 & 255)	1,639,592	33,985	26,438	1,700,015	(3,581)		1,696,434
Office Facilities (300)	2,365,783	(7,138)	(36,354)	2,322,291	(3,546)		2,318,745
Study Facilities (400)	395,282	8,166	47,729	451,177		1,197	452,374
Special Use Facilities (500)	1,219,827	-	12,399	1,232,226			1,232,226
General Use Facilities (600)	1,016,703	3,135	(28,660)	991,178			991,178
Support Facilities (700)	2,920,430	(726)	(536)	2,919,168	(82)		2,919,086
Health Care Facilities (800)	217,475	<u>-</u>	-	217,475			217,475
Resident Facilities (900)	2,774,611	-	-	2,774,611			2,774,611
Unclassified (000)	15,134	-	-	15,134			15,134
B. OTHER FACILITIES (Please list major categories)							
TOTAL SPACE	13,733,943	41,847	(2,404)	13,773,386	(7,435)	4,322	13,770,273

Notes:

- Space/Room codes based on Postsecondary Ed Facilities Inventory and Classification Manual (2006)

(1) Identify in a footnote the specific facilities that are included in the data in these columns. Do not include pending approval, non-submitted projects or non-funded projects

Space under construction includes:

- Hypersonics Building
- Schleman/Stewart Renovation
- Whistler Mechanical Project

Space planned and funded includes:

- Life Sciences Phenotyping Greenhouse Building
- Mackey Locker Rooms Renovation
- Ross-Ade Stadium Renovation
- Zucrow High Speed Propulsion Lab
- Northwest Chiller Plant System Improvements
- Vawter Hall Electrical Enhancements and Replacement
- Brown Family Hall Renovation
- PMU 2nd Floor Hospitality Renovation
- Libraries Study Space Renovation
- University Hall and Related Renovations

Space to be terminated as part of this project includes:

- Classroom
- Non-class (Research) Lab
- Office
- Support

(2) Space added as part of this project includes:

- Class Lab
- Study

CAPITAL PROJECT COST DETAILS

Mechanical Engineering Building Renovation

Institution: Campus:	Purdue University West Lafayette		Budget Agency Project No.: Institutional Priority: N/A
ANTICIPAT	ED CONSTRUCTION SCHEDULE Month Bid Date Start Construction Occupancy (End Date) March	Year 2023 2023 2025	
ESTIMATEI	Planning Costs a. Engineering b. Architectural	Cost Basis (1) \$ 630,000 \$ 1,190,000	N/A
	c. Consulting Construction a. Structure b. Mechanical (HVAC, plumbing, etc.) c. Electrical	\$ 8,400,000 \$ 7,500,000 \$ 2,500,000	N/A N/A
	Movable Equipment Fixed Equipment Site Development/Land Acquisition Other (PM fees, contingencies, printing) TOTAL ESTIMATED PROJECT COST	\$ 750,000 \$ 750,000 \$ - \$ 3,000,000 \$ 25,000,000	N/A N/A N/A

⁽¹⁾ Cost Basis is based on current cost prevailing as of: (INSERT MONTH AND YEAR)

⁽²⁾ Explain in the Description of Project Section of the "Cap Proj Details" schedule the reasoning for estimated escalation factors

CAPITAL PROJECT OPERATING COST DETAILS

Mechanical Engineering Building Renovation

<u>Purdue University</u> <u>Campus:</u> <u>West Lafayette</u>]		dget Agency Project No.: titutional Priority:	<u>B-1-23-2-1</u> <u>N/A</u>					
NNUAL OPERA	UAL OPERATING COST/SAVINGS (1)		Cost per GSF		GSF OF AREA A		AFFECTED Personal Services		PROJECT oplies and oenses	41,
	1. Operations	\$	_	\$	-	\$	_	\$	_	
	2. Maintenance	\$	(0.28)	\$	(11,289)	\$	(11,289)	\$	-	
	3. Fuel	\$	-	\$	-	\$	-	\$	-	
	4. Utilities	\$	(0.70)	\$	(28,592)	\$	-	\$	(28,592)	
				Φ		Φ		•		
	5. Other	\$	-	D.	-	Ψ	-	Ψ		

Description of any unusual factors affecting operating and maintenance costs/savings.

The total building has 228,000 GSF. By renovating the MEP systems within the 41,000 GSF scope area, the university projects reductions in maintenance and utilities to that portion of the building. The current building cost per GSF for maintenance is \$0.55/GSF and cost per GSF for utilities is \$2.79/GSF. With new MEP systems, maintenance could reduce by 50% and utilities by 25% for the renovated portion.

⁽¹⁾ Based on figures from "Individual Cap Proj Desc" schedule