

Office of the Chief Financial Officer and Treasurer

September 9, 2021

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

Dear Governor Holcomb:

At its meeting on August 6, 2021, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for Biochemistry Building Main Electrical Distribution Replacement.

This project will replace two transformers and two electrical distribution systems in the Biochemistry Building that are past their useful life. This includes main switches, panels and circuit breakers that support building equipment and lighting.

This project will improve service reliability, provide research laboratories with the flexibility to install more or different lab equipment and will enhance technician safety.

The estimated total project cost is \$2,300,000, funded by Operating Funds. This project is included in Purdue's approved FY22 Repair and Rehabilitation budget.

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,

Christopher A. Ruhl Chief Financial Officer and Treasurer

Attachments

c: Alexa Deaton, Chief Financial Officer, Indiana Commission for Higher Education Jasmine Williams, Director of Finance, Indiana Commission for Higher Education Zachary Jackson, Director, Indiana State Budget Agency Andy Cummings, Assistant Director, Indiana State Budget Kathleen Thomason, Comptroller, Purdue University Anne Hazlett, Senior Director, Government Relations, Purdue University

PROJECT COST SUMMARY Biochemistry Building Main Electrical Distribution Replacement

Institutions Declara Inimation	Dudent American Designt No.					
Institution:Purdue UniversityCampus:West Lafayette	Budget Agency Project No.: B-1-22-2-04 Institutional Priority: N/A					
Previously approved by General Assembly: No Part of the Institution's Long-term Capital Plan: Yes	Previously recommended by CHE: <u>No</u>					
Project Size: N/A GSF (1) N/A ASF (2)	N/A ASF/GSF					
Net change in overall campus space: N/A GSF	N/A ASF					
Total cost of the demolition: \$ - Funding Source(s) for project (4): Amount	Dest per ASF/GSF: N/A GSF N/A ASF					
Estimated annual debt payment (6): N/A	Operating Funds					
Are all funds for the project secured: Yes						
Project Funding: This project is funded by Operating Funds, and all of the funds are secur	ad					
This project is funded by Operating Funds, and an of the funds are seen						
Project Cost Justification						
Since the project is utilities based, there is not a ASF or GSF associated in the comparable project section.	with the work. This project scope and cost are similar to the projects listed					
Estimated annual change in cost of building operations based on the						
Estimated annual repair and rehabilitation investment (5):	I/A					

(1) Gross Square Feet (GSF)- 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 Biochemistry Building Main Electrical Distribution Replacement

Institution:	Purdue University	Budget Agency Project No.: <u>B-1-22-2-04</u>
<u>Campus:</u>	West Lafayette	Institutional Priority: <u>N/A</u>
Description of		
This project w	Il replace the electrical distribution system to	or the Biochemistry Building on the West Lafayette campus.
		wo electrical distribution systems, including main switches, panels and circuit
breakers, with switches) is 25		of the new transformers is 40-50 years, and the switchgear (including the main
		hemistry and the Office of the Indiana State Chemist, which is a state regulatory animal feeds, fertilizers, pesticides and seeds. These laws ensure truth-in-
	safety, user safety and the protection of our e	
Nood and Pur	noss of the Dreasen	
	pose of the Program ansformers and electrical distribution system	ns, which support building equipment and lighting, are past their expected
service life and	are not meeting the building's needs. The e	lectrical system was originally installed in 1937. Some upgrade work including
high voltage ca included in thi		main electrical switchgear was completed in 1981, but transformers were not
This project w	ill improve religibility through the modernize	tion of the building's electrical distribution system. Research labs will have
1 2	1 2 2	ent as a result of this project. The new system will enhance technician safety
	tter access to control devices and improved i	
Scientists in bi	ochemistry perform life science research wit	h strengths that include Bioenergy, Cancer Biology, Drug Discovery, Molecular
		opy, RNA Biology, and Structural and Chemical Biology. Approximately 38%
		ce divided between office, circulation/mechanical and instructional/general use \$10M in funding in fiscal year 2020. Approximately 50% of this support was
· ·		ately 200 undergraduates enrolled in their department, and each student
participates in	undergraduate research. The program has 49	graduate students enrolled.
This project is	included in Purdue's approved FY22 Repair	and Rehabilitation budget.
Space Utilizat		
Since this is a	utilities project, there will be no significant s	pace impact.
Comparable I		
	<u>rojects</u> dministration Building Electrical Upgrade Pl	nase 1 – 2018
o \$1,308,700		
o Included the breakers.	e replacement of the existing high voltage tra	ansformers and main distribution switchboards and added are flash circuit
	mistry Building (103,700 SF) is significantly	y larger than the Agricultural Administration Building (64,800 SF) and requires
		ne Biochemistry Building project also includes additional scope components
	le cost, including structural elements, the relevant is the relevant of the relevant is the start of the star	ocation of mechanical and plumbing equipment, exterior hatch opening work
Terminal Build o \$1,039,000	ling Transformer Vault and Building Electric	al Renovation – 2018
o Included the	e replacement of the obsolete transformer bar	e e e e e e e e e e e e e e e e e e e
o The main el	ectrical system was not replaced in this proje	ect but is included in the scope of the Biochemistry Building project.
Background N	<u>Materials</u>	

CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION INSTITUTION CAMPUS SPACE DETAILS FOR Biochemistry Building Main Electrical Distribution Replacement

	Current Campus Totals				Capital I		
(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)	337,643	-	-	337,643			337,643
Class Lab (210,215,220,225,230,235)	756,826	82,254	4,425	843,505			843,505
Non-class Lab (250 & 255)	1,635,329	(17,963)	37,622	1,654,988			1,654,988
Office Facilities (300)	2,371,673	29,971	(9,433)	2,392,211			2,392,211
Study Facilities (400)	351,988	7,003	8,166	367,157			367,157
Special Use Facilities (500)	1,222,756	-	-	1,222,756			1,222,756
General Use Facilities (600)	1,001,822	2,808	14,320	1,018,950			1,018,950
Support Facilities (700)	2,852,514	121	(783)	2,851,852			2,851,852
Health Care Facilities (800)	112,112	89,901		202,013			202,013
Resident Facilities (900)	2,697,529		-	2,697,529			2,697,529
Unclassified (000)	24,007	-	-	24,007			24,007
B. OTHER FACILITIES							
(Please list major categories)							
TOTAL SPACE	13,364,198	194,095	54,317	13,612,610	-	-	13,612,610

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:

- Vet Med Teaching Hospital

- Gateway Complex
- PMU Renovations
- Purdue Bands & Orchestra Building

Space planned and funded includes:

- Child Care Center Building
- Hypersonics Building
- Secure Research Center

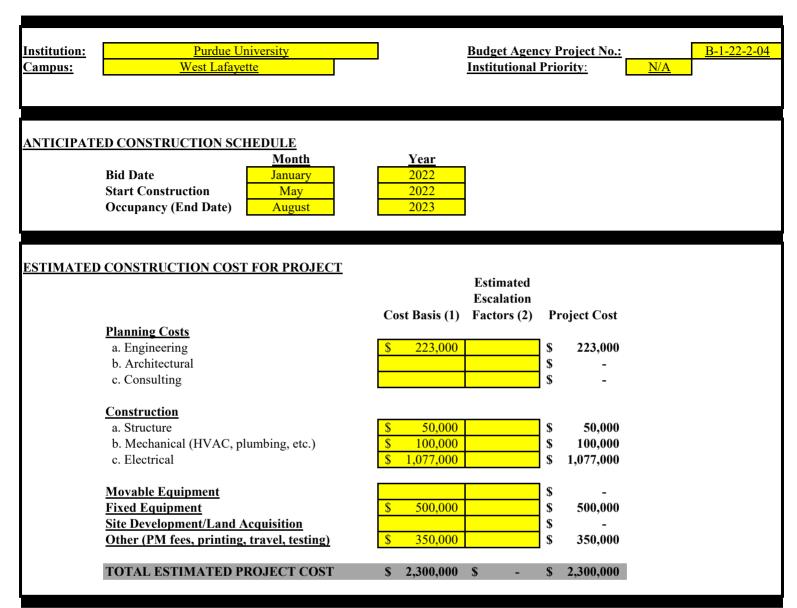
- Whistler Hall Mechanical Systems Replacement

- Schleman Hall, Stewart Center and Related Renovations

(2) There is no space to be added or terminated as part of this capital project.

CAPITAL PROJECT COST DETAILS

Biochemistry Building Main Electrical Distribution Replacement



(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

Biochemistry Building Main Electrical Distribution Replacement

<u>Institution:</u> <u>Campus:</u>	<u>Purdue University</u> West Lafayette]			icy Project No Priority:	0.: <u>N/A</u>	<u>B-1-22-2-04</u>
		GSF	OF A	REA A	FFECTED BY	Y PROJECT	N/A
<u>ANNUAL OPI</u>	INUAL OPERATING COST/SAVINGS (1)		Total Operating Cost		Personal Services	Supplies and Expenses	
	 Operations Maintenance Fuel Utilities Other 		\$ \$ \$ \$	- - -			
TOTAL E	STIMATED OPERATIONAL COST/SAVINGS	N/A	\$	-	N/A	N/A	
Description of	any unusual factors affecting operating and main	<u>tenance costs</u>	s/savin	<u>gs.</u>			

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