

Office of the Chief Financial Officer and Treasurer

August 15, 2024

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

Dear Governor Holcomb:

At its meeting on August 2, 2024, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for the Biochemistry Building Office of the State Chemist Lab Renovation on the West Lafayette campus.

This project will renovate approximately 19,000 GSF primarily in the first and second floors of the Biochemistry Building. The renovations will modernize and optimize the layout of available research laboratory space in the Biochemistry Building. Mechanical, electrical and plumbing systems that support the renovated spaces will be replaced or modified as part of this project.

This project will create a more efficient use of space for occupants associated with the Office of the State Chemist (OISC), allowing greater capacity for the number of researchers performing work in the Biochemistry Building. The new layout moves offices to adjacent rooms within the building and designs new, efficient labs to backfill the footprint. By stacking lab spaces on all three floors, stress on the mechanical systems is reduced, resulting in more efficient operation of the supporting mechanical systems and promote longevity of that equipment

The estimated total project cost is \$16,500,000 funded by Auxiliary Funds - Other.

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: Seth Hinshaw, Chief Financial Officer, Indiana Commission for Higher Education Joe Habig, Deputy Director and Acting State Budget Director, Indiana State Budget Agency Cody Wilson, Division Director, Indiana State Budget Agency Kathleen Thomason, Comptroller, Purdue University Anne Hazlett, Senior Director, Government Relations, Purdue University

### **PROJECT COST SUMMARY** Biochemistry Building Office of the State Chemist Lab Renovation

<b>T</b>							
<u>Institution:</u> Campus:	<u>Purdue</u> West Lafay	<u>University</u> <u>ette</u>		Budget Agency Pro		<u>N/A</u>	<u>B-1-25-2-02</u>
Previously app	proved by General Assem	ibly: <u>No</u>	1	Previously recomm	ended by CH	E:	No
			J 7	<u>Treviousiy</u> recomm		<u></u>	110
Part of the Ins	stitution's Long-term Caj	<u>pital Plan: Yes</u>					
<u>Project Size:</u>	18,999 GSF (1)	16,169 ASF (2)	0.851044792	ASF/GSF			
Net change in	overall campus space:	GSF		ASF			
Total cost of th	<u>he project (3):</u>	\$ 16,500,000	<u>Cost per ASF/</u>	GSF:	<mark>\$ 868.47</mark>	GSF	
<u>Total cost of tl</u>	he demolition:	<mark>\$ -</mark>			<b>\$ 1,020.47</b>	ASF	
Funding Sourc	<u>ce(s) for project (4):</u>	Amount		Туре			
		<u>\$ 16,500,000</u>	Auxiliary	Funds - Other			
Estimated ann	<u>ual debt payment (6):</u>	N/A					
<u>Are all funds f</u>	for the project secured:	Yes					
Project Fundir							
All funding is s	ecured, from reserve funds	s for the OISC.					
Project Cost J		the capital project details se	ction				
The project see							
Estimated ar-	ual abanga in cast of b	Iding anarations based an	the project.	\$ (25.000)			
	-						
Estimated ann	ual repair and rehabilita	<u>ttion investment (5):</u>	\$ 247,500				
	nual change in cost of bui nual repair and rehabilita	lding operations based on tion investment (5):		<u>\$ (35,000)</u>			

# PROJECT DETAILED DESCRIPTION - ADDITIONAL INFORMATION

**Biochemistry Building Office of the State Chemist Lab Renovation** 

Institution:	Purdue University	Budget Agency Project No.: <u>B-1-25-2-02</u>
<u>Campus:</u>	<u>West Lafayette</u>	Institutional Priority: <u>N/A</u>
Description of		he in the first and encould first of the Direct on inter Deilding on the West
		ly in the first and second floors of the Biochemistry Building on the West ize the layout of available research laboratory space in the Biochemistry Building,
		the renovated spaces will be replaced or modified as part of this project.
		illy Hall of Life Sciences will undergo minor renovations to accommodate
occupants durin	ng the renovation of the Biochemistry Building	
Nood and Dum	nose of the Drogram	
	pose of the Program Il create a more efficient use of space for occur	pants associated with the Office of the State Chemist (OISC), allowing greater
capacity for the	e number of researchers performing work in the	Biochemistry Building. The Biochemistry renovation will include a combination
		aximize the efficiency of a currently dated and inefficiently laid out building. The
current building and massively i		in the same rooms, which is detrimental to the mechanical systems of those rooms
and massivery i	nemcient.	
		s within the building and designs new ultra-efficient labs to backfill the footprint.
-		puzzle of office and labs on each floor. The stacking reduces stress on the
mechanical sys	tems, resulting in more efficient operation of th	ne supporting mechanical systems and promote longevity of that equipment.
This project sur	pports the College of Agriculture master plan.	
1 5 1		
Space Utilizat		net increase of 1,400 SF. Lab space is shifting from 6,400 SF to 6,000 SF, a net
		ab SF, the OISC group is capable of increasing researcher headcount by 16% in
	rom 84 FTE to 98 FTE because of the space of	
Comparable P		
Birck Nanotech	inology Center Clean Room Modernization and	d Related Renovations and Equipment Purchases
Total project =	\$49M, with \$19M being for specialty equipme	ent.
20,500 GSF w/	/\$30M budget for construction = \$1,463/ GSF	
		This is a lab renovation, but the cost per square foot is higher because it's mostly
cleanroom worl	ζ.	
Background M	Aaterials	

### CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION INSTITUTION CAMPUS SPACE DETAILS FOR Biochemistry Building Office of the State Chemist Lab Renovation

	Current Campus Totals				Capital H	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)	310,758	(2,547)	53,413	361,624	-	-	361,624
Class Lab (210,215,220,225,230,235)	737,430	(13,353)	27,267	751,343	-	-	751,343
Non-class Lab (250 & 255)	1,741,662	22,026	1,992	1,765,680	-	1,733	1,767,413
Office Facilities (300)	2,315,009	(31,940)	37,685	2,320,753	-	(568)	2,320,185
Study Facilities (400)	470,942	24,974	17,175	513,091	-	- 1	513,091
Special Use Facilities (500)	1,200,135	11,251	(10,437)	1,200,948	-	-	1,200,948
General Use Facilities (600)	969,612	13,384	11,290	994,286	-	-	994,286
Support Facilities (700)	2,918,659	(8,356)	(44,374)	2,865,928	-	-	2,865,928
Health Care Facilities (800)	218,188	(1,900)	-	216,288	-	-	216,288
Resident Facilities (900)	2,438,915	111,146	-	2,550,061	-	-	2,550,061
Unclassified (000)	170,958	-	-	170,958	•	-	170,958
B. OTHER FACILITIES							
(Please list major categories)				-			-
TOTAL SPACE	13,492,266	124,685	94,010	13,710,961	-	1,165	13,712,126

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:
- Shealy Hall Roof Replacement
- Zucrow High Speed Propulsion Lab
- Mechanical Engineering Building Renovation
- Life Sciences Phenotyping Greenhouse Building
- University Hall and Related Renovations
- University and Schleman Halls Strategic Transformer Replacement
- Birck Nanotechnology Center Clean Room Modernization and Related Renovations
- Purdue Airport Terminal
- Chilled Water Capacity Enhancement Projects
- Hillenbrand Residence Hall South

#### Space planned and funded includes:

- Wetherill Lab Drain and Supply Line Replacement Phase I

- Nursing and Pharmacy Education Building
- Mitchell E. Daniels, Jr. School of Business Building
- Graduate House Parking Garage Demolition and Site Restoration
- Wetherill Lab Drain and Supply Line Replacement Phase II 2024
- Vawter Hall Electrical Enhancements and Replacement
- Shreve Hall Electrical Enhancements and Replacement
- Stewart Center and Purdue Memorial Union Courtyard Plaza Concrete and Waterproofing Replacement 2025
- Burke Boilermaker Aquatic Center Mechanical Project
- Mathematical Sciences Building Data Center Renovation
- Reed Animal Disease Diagnostic Laboratory Equipment Replacement
- Wesley Foundation Property Purchase & Sale
- Chi Omega Sorority Property Purchase & Ground Lease

## CAPITAL PROJECT COST DETAILS Biochemistry Building Office of the State Chemist Lab Renovation

<u>Institution:</u> Campus:	<u>Purdue University</u> West Lafayette		Budget Agency Project No.: Institutional Priority:					<u>-02</u>
<u>ANTICIPAT</u>	ED CONSTRUCTION SCHEDULEMonthGMP DeliveryNovemberStart ConstructionMarchOccupancy (End Date)January	<u>Year</u> 2024 2025 2027						
<u>ESTIMATEI</u>	O CONSTRUCTION COST FOR PROJECT	Cost Basis (1)	Estimated Escalation Factors (2)	Рі	roject Cost			
	<u>Planning Costs</u> a. Engineering b. Architectural c. Consulting	\$ 1,100,000 \$ 500,000 \$ 75,000		\$ \$ \$	1,100,000 500,000 75,000			
	<u>Construction</u> a. Structure b. Mechanical (HVAC, plumbing, etc.) c. Electrical	\$ 6,500,000 \$ 5,000,000 \$ 1,000,000		\$ \$ \$	6,500,000 5,000,000 1,000,000			
	<u>Movable Equipment</u> <u>Fixed Equipment</u> <u>Site Development/Land Acquisition</u> <u>Other (PM fee, contingencies, insurance, etc.)</u>	\$ 650,000 \$ 200,000 \$ 1,475,000		\$ \$ \$	650,000 200,000 - 1,475,000			
	TOTAL ESTIMATED PROJECT COST	\$ 16,500,000	\$ -	\$	16,500,000			

## CAPITAL PROJECT OPERATING COST DETAILS

**Biochemistry Building Office of the State Chemist Lab Renovation** 

<u>Institution:</u> <u>Campus:</u>				Budget Agency Project No.: Institutional Priority: <u>N/A</u>					
ANNUAL OP	PERATING COST/SAVINGS (1)		GSF		F AREA AF Total	FECTED B	Y PROJECT	18,99	
			ost per GSF		)perating Cost	Personal Services	and Expenses		
	1. Operations		-	\$	-				
1	2. Maintenance		-	\$	-				
1	3. Fuel		-	\$	-				
1	4. Utilities	\$	(1.84)	\$	(35,000)		-35,000		
l	5. Other		-	\$					
TOTAL J	ESTIMATED OPERATIONAL COST/SAVINGS	\$	(1.84)	\$	(35,000)	\$ -	\$ (35,000)	l.	
-	f any unusual factors affecting operating and maint								
	ill affect approximately 19,000 GSF of space. Today, th								
	Similar projects with updated lab spaces have seen appr								
baseline, the to	otal cost per square foot of the building future state is \$	10.55	)/GSF and	1 a i	atility const	imption reduc	tion of \$33,30	0 per year.	