



OFFICE OF THE EXECUTIVE VICE PRESIDENT FOR  
BUSINESS AND FINANCE, TREASURER

September 13, 2013

The Honorable Michael R. Pence  
Governor of the State of Indiana  
State House  
Indianapolis, IN 46204

Dear Governor Pence:

At its meeting on September 12, 2013, The Purdue University Board of Trustees approved the project, "Brown Laboratory Window Replacement" on the Purdue University West Lafayette Campus.

This project will replace the original 1970 windows of Brown Laboratory including the connecting walkway to Wetherill Laboratory.

The estimated cost of this project is \$3,750,000, to be funded from Repair and Rehabilitation – University Funds.

Pending the Purdue University Board of Trustees approval and 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 which 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 you may wish.

Sincerely,

A handwritten signature in black ink, appearing to read "A. V. Diaz".

A. V. Diaz  
Executive Vice President for  
Business and Finance, Treasurer

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Attachments

- c: Matt Hawkins, Associate Commissioner and Chief Financial Officer
- Brian Bailey, State Budget Director
- Mary Catherine Gaisbauer, Comptroller
- Kevin Green, Assistant Director of Capital Planning

**PROJECT SUMMARY AND DESCRIPTION**  
Brown Laboratory Window Replacement

<b>Institution:</b>	<input type="text" value="Purdue University"/>	<b>Budget Agency Project No.:</b>	<input type="text" value="B-1-14-2-07"/>
<b>Campus:</b>	<input type="text" value="West Lafayette"/>	<b>Institutional Priority:</b>	<input type="text" value="N/A"/>
<b>Previously approved by General Assembly:</b>	<input type="text" value="No"/>	<b>Previously recommended by CHE:</b>	<input type="text" value="No"/>
<b>Part of the Institution's Long-term Capital Plan:</b>	<input type="text" value="Yes"/>		

**Project Summary Description:**

The existing Brown Laboratory of Chemistry was constructed in 1970, and the windows are original to the building and three story connecting walkway. The windows are experiencing general failure. The project will result in complete replacement of windows and its components.

**Summary of the impact on the educational attainment of students at the institution:**

This project is to prolong the life expectancy of our facilities. The project protects interior spaces and prevents infiltration of outside weather conditions.

<b>Project Size:</b>	<input type="text" value="N/A"/> GSF	<input type="text" value="N/A"/> ASF	<input type="text" value="N/A"/> ASF/GSF
<b>Net change in overall campus space:</b>	<input type="text" value="N/A"/> GSF	<input type="text" value="N/A"/> ASF	

<b>Total cost of the project (1):</b>	<input type="text" value="\$ 3,750,000"/>	<b>Cost per ASF/GSF:</b>	<input type="text" value="N/A"/> GSF
			<input type="text" value="N/A"/> ASF
<b>Funding Source(s) for project (2):</b>	<input type="text" value="\$ 3,750,000 Repair and Rehabilitation - University General Funds"/>		
<b>Estimated annual debt payment (4):</b>	<input type="text" value="N/A"/>		
<b>Are all funds for the project secured:</b>	<input type="text" value="Yes"/>		
<b>Estimated annual change in cost of building operations based on the project:</b>	<input type="text" value="N/A"/>		
<b>Estimated annual repair and rehabilitation investment (3):</b>	<input type="text" value="N/A"/>		

- (1) Projects should include all costs associated with the project (structure, A&E, infrastructure, consulting, FF&E, etc.)
- (2) Be consistent in the naming of funds to be used for projects. If bonding, note Bonding Authority Year (1965, 1929, 1927, etc.)
- (3) 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
- (4) If issuing debt, determine annual payment based on 20 years at 5.75% 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

## Brown Laboratory Window Replacement

**Institution:** Purdue University  
**Campus:** West Lafayette

**Budget Agency Project No.:** B-1-14-2-07  
**Institutional Priority:** N/A

### Description of Project

This project will replace approximately 445 operable windows, with spandrel panels in vertical strips between floors in the Brown Chemistry Building. In 2005, 253 openings on three floors, nearly 29% had interior plaster damage that had been repaired or were still needing repaired. Existing windows are single pane glazed in a thermally unbroken aluminum frame making the units less energy efficient than newer models. Funding for this project is University funds dedicated to the R&R program. There are no anticipated changes in operational costs to the institution. Brown Chemistry Laboratory is a four-story concrete framed masonry structure constructed in 1970 and houses the Purdue Department of Chemistry undergraduate teaching lab classrooms.

### Need and Purpose of the Program

This project relates to the mission and long-term strategic plan by maintaining a weather tight facility, reducing collateral damage, and potential health risk to students, staff, faculty and the public. This project is repair and maintenance to prolong the life expectancy of our facilities. No programmatic changes are anticipated. The facility will remain open and operational during construction. Some disruptions may be expected for short durations as each window is installed and interior wall repairs are made.

If the project is not approved or recommended by the state, then water infiltration will continue to create additional damage to the interior space, potentially causing mold to form. This facility houses main instructional classes for chemistry for all at Purdue; water infiltration and damage to this facility would be very costly. No financial impact regarding the cost of attendance to students is anticipated.

### Space Utilization

N/A

### Comparable Projects

This project will replace approximately 445 operable windows at \$3,750,000. This project is comparable to the Math Sciences Window Replacement project from 2009. The Math Sciences project replaced windows similar to the Brown Laboratory windows. The Math Science project replaced 226 windows at \$1,500,000.

### Background Materials

NA



**CAPITAL PROJECT REQUEST FORM**  
**INDIANA PUBLIC POSTSECONDARY EDUCATION**  
**INSTITUTION CAMPUS SPACE DETAILS FOR Brown Laboratory Window Replacement**

Brown Laboratory Window Replacement - B- 1-14-2-07	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
<b>A. OVERALL SPACE IN ASF</b>							
Classroom (110 & 115)	287,107	2,827	57,000	346,934	-	-	346,934
Class Lab (210,215,220,225,230,235)	548,270	8,118	-	556,388	-	-	556,388
Non-class Lab (250 & 255)	1,460,414	57,365	-	1,517,779	-	-	1,517,779
Office Facilities (300)	2,104,743	60,733	-	2,165,476	-	-	2,165,476
Study Facilities (400)	388,363	6,719	36,000	431,082	-	-	431,082
Special Use Facilities (500)	1,128,689	16,694	9,845	1,155,228	-	-	1,155,228
General Use Facilities (600)	828,496	33,968	5,065	867,529	-	-	867,529
Support Facilities (700)	3,013,388	281,093	-	3,294,481	-	-	3,294,481
Health Care Facilities (800)	81,951	-	-	81,951	-	-	81,951
Resident Facilities (900)	2,271,855	57,045	-	2,328,900	-	-	2,328,900
Unclassified (000)	23,331	9,395	-	32,726	-	-	32,726
<b>B. OTHER FACILITIES</b> (Please list major categories)							
<b>TOTAL SPACE</b>	<b>12,136,607</b>	<b>533,957</b>	<b>107,910</b>	<b>12,778,474</b>	<b>-</b>	<b>-</b>	<b>12,778,474</b>

Notes:

- (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
- (2) Should include capital projects requested by the institution based on 2013-15 Capital Request Summary

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

# CAPITAL PROJECT COST DETAILS

## Brown Laboratory Window Replacement

**Institution:** Purdue University  
**Campus:** West Lafayette

**Budget Agency Project No.:** B-1-14-2-07  
**Institutional Priority:** N/A

### ANTICIPATED CONSTRUCTION SCHEDULE

	<u>Month</u>	<u>Year</u>
Bid Date	December	2013
Start Construction	May	2014
Occupancy (End Date)	August	2015

### ESTIMATED CONSTRUCTION COST FOR PROJECT

	Estimated Escalation Cost Basis (1)	Factors (2)	Project Cost
<b><u>Planning Costs</u></b>			
a. Engineering			\$ 220,000
b. Architectural			
c. Consulting			\$ 64,460
<b><u>Construction</u></b>			
a. Structure			\$ 3,346,283
b. Mechanical (HVAC, plumbing, etc.)			
c. Electrical			
<b><u>Movable Equipment</u></b>			
<b><u>Fixed Equipment</u></b>			
<b><u>Site Development/Land Acquisition</u></b>			
<b><u>Other (Internal PM Fee)</u></b>			\$ 119,257
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$ -</b>	<b>\$ 3,750,000</b>

(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

## Brown Laboratory Window Replacement

<b>Institution:</b>	Purdue University	<b>Budget Agency Project No.:</b>	B-1-14-2-07
<b>Campus:</b>	West Lafayette	<b>Institutional Priority:</b>	N/A

	<b>GSF OF AREA AFFECTED BY PROJECT</b>			
<b>ANNUAL OPERATING COST/SAVINGS (1)</b>	<b>Cost per GSF</b>	<b>Total Operating Cost</b>	<b>Personnel Services</b>	<b>Supplies and Expenses</b>
1. Operations				
2. Maintenance				
3. Fuel				
4. Utilities				
5. Other				
<b>TOTAL ESTIMATED OPERATIONAL COST/SAVINGS</b>	N/A	N/A	N/A	N/A

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

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