PURDUE UNIVERSITY | Administrative Operations

BOARD APPROVED
August 7, 2020
Janice Indrutz
Corporate Secretary

TO: Members of the Board of Trustees

FR: Michael B. Cline, Senior Vice President for Administrative Operations

DATE: July 27, 2020

RE: Approval of Ten-Year Capital Plan

**Attachments:**
- Purdue University 2021-2023 Capital Request Narrative
- 2021-2023 Capital Request Priority Project Summaries
- 2021-2031 Ten-Year Capital Project Plan – Purdue University System-Wide Summary of Major Capital Projects

The enclosed capital planning documents summarize Purdue's 2021-2023 Capital Project Request and 2021-2031 Ten-Year Capital Plan. The final capital request will consist of a narrative and a prescribed set of tables and schedules issued jointly from the Indiana Commission for Higher Education (ICHE) and the State Budget Agency/Committee. These materials will be prepared and submitted to ICHE based on your approval of the capital plan and institutional priority rankings.

The development of the Ten-Year Capital Plan is the result of a five-month capital planning process started in January with a request of the deans, vice presidents, and chancellors to engage with the leadership of Physical Facilities to identify facility needs in the context of strategic initiatives, including Purdue Moves and various other campus planning activities currently underway. Purdue's Physical Facilities and University Development Office have evaluated the requests and funding plans for the various facility needs and have prepared the set of near-, mid-, and long-term facility project plans that will be submitted for your review on August 7, 2020.

Following approval from the Board of Trustees, this material will be submitted to ICHE and the State Budget Committee.

c: Chairman Mike Berghoff
President Mitch Daniels
Treasurer Chris Ruhl
Provost Jay Akridge
Assistant Treasurer Jim Almond
Corporate Secretary Janice Indrutz
Legal Counsel Steve Schultz

# Purdue University 2021-2023 Capital Request Narrative

## Introduction

The Ten-Year Capital Plan, in conjunction with the 2021-2023 Legislative Capital Request, outlines the strategy for Physical Facilities to maintain and renew Purdue University's physical infrastructure while prioritizing university initiatives, inclusive of Purdue Moves and a variety of other endeavors.

As in past years, it is important that the Ten-Year Capital Plan and the 2021-2023 Legislative Capital Request make progress on the following key themes:

- **Renewal through renovation and replacement:** renovating and repurposing of existing space to allow our campuses to increase efficiency, sustainability and safety
- **Development through private, public and institutional partnerships:** leveraging resources and aligning partners to create modern and efficient facilities that support emerging scientific methods and evolving instructional techniques, and providing improved opportunities for cross-disciplinary collaboration

## Process

The framework to guide the growth, development and reinvestment in Purdue's physical infrastructure is rooted in each campus's master plan and guided by the University's strategic priorities. Purdue's capital project planning and the development of the 2021-2031 capital request involves:

- A biennial (once every two years) process to establish the Ten-Year Capital Plan
- An annual process to develop a repair and rehabilitation (R&R) and infrastructure plan

Purdue's capital project approval process, including new construction, facility renovations, leases and property acquisitions, are governed by State statue and the Bylaws of the University.

This year, Physical Facilities leadership consulted university deans, vice presidents and chancellors to identify facility needs in the context of university strategic priorities. Physical Facilities and the University Development Office then evaluated the requests and funding plans for each identified need and organized them into a set of near-, mid- and long-term projects.

## Balanced Capital Approach and Priority Projects

Throughout the development of the Ten-Year Capital Plan, Physical Facilities is mindful of the need to ensure financial viability and stewardship during challenging economic climates and to prioritize and contribute to student affordability and sustainability.

In order to achieve these goals, Purdue has adopted a balanced capital program approach for system-wide facility and infrastructure investments. This approach consists of the following core principles:

- Renovate existing facilities, where feasible
- Replace existing facilities with new, where appropriate
- Add new space only when needed

Our 2021-2023 Legislative Capital Request and Ten-Year Capital Plan are built on these fundamental core principles.

The following attachments consist of summaries of each of the prioritized projects (listed in order) that make up the 2021-2023 Legislative Capital Request:

1. Active Clinical Learning Building
2. Vivarium Renovations
3. South Campus Renovations Phase II, Purdue University Fort Wayne
4. Chiller Plant Upgrade and Chilled Water Line Replacement, Purdue University Northwest
5. Wade Utility Plant Chiller Replacements

While not part of the 2021-2023 Legislative Capital Request, a supplementary summary on the following projects are included for alternative legislative consideration:

- Hypersonics and Applied Research Facility
- BSL-3 Laboratory
- Heeke Diagnostics Laboratory Facility Replacement
- Office of the Indiana State Chemist

# 2021-2023 Capital Request Priority Project Summary

*Active Clinical Learning Building*

## Scope

- Construct a new 160,000 GSF building that will provide a new home for the College of Pharmacy and the School of Nursing on the West Lafayette campus
- The facility will support modern teaching pedagogy, interprofessional education and clinical learning
- The building will include eight general use classrooms, clinical instructional spaces, study spaces, offices and common space

## Location

Purdue University West Lafayette

## Project Cost

$98M

## Space Summary

| | ASF | GSF |
|---|---|---|
| Space to be Built Out | 84,000 | 160,000 |
| Space to be Demolished | 12,000 | 15,000 |
| Net Change in Campus Space | 72,000 | 145,000 |

| | ASF |
|---|---|
| Space to be Repurposed | 0 |
| Campus Space to be Released | 49,000 |

## Timeline

- Construction duration: 24-30 months
- Construction initiation: Summer 2022
- Construction completion: Fall 2024

## Project Need

- Current nursing and pharmacy instructional and administrative space is spread out among four buildings on north and south sections of the West Lafayette campus
- The new, centralized space supports the Purdue Moves goal of “transformative education”
- The COVID-19 pandemic has further highlighted the need to modernize clinical educational facilities for nursing and pharmacy programs due to the critical roles that these professionals play in public health initiatives
    - Governor Eric Holcomb recognized the need for nurses and pharmacists when he issued executive orders in April 2020 that provide for the immediate, temporary licensure of pharmacy and nursing graduates to assist in the COVID-19 fight

- The advanced clinical skills required for combating complex diseases such as COVID-19, both acutely and long-term effects, will be supported by the new Active Clinical Learning Facility, including:
  - Patient screening and testing
  - Diagnostic and antibody testing
  - In- and out-patient care
  - Flu shot and vaccination administering

## State Biennial Request History

- This project was listed as a medium-term project in the 2019-2021 biennial submittals as the Nursing and Pharmacy Building

## Project Owner

Eric L. Barker, dean, College of Pharmacy
Marion Underwood, dean, College of Health and Human Sciences

# 2021-2023 Capital Request Prioritized Project Summary

*Vivarium Renovations*

## Scope

- Renovate approximately 22,000 GSF of animal holding (vivarium) space to add procedural and behavioral testing
- Add or upgrade the following:
  - Climate control systems
  - Ventilation
  - Holding room size
  - Support space
  - Storage space

## Location

Purdue University West Lafayette

## Project Cost

$20M

## Space Summary

| | ASF | GSF |
|---|---|---|
| Space to be Renovated | 8,000-11,000 | 20,000-22,000 |
| Space to be Built Out | 0 | 0 |
| Space to be Demolished | 0 | 0 |
| Net Change in Campus Space | 0 | 0 |

| | ASF |
|---|---|
| Space to be Repurposed | 0 |
| Campus Space to be Released | 0 |

## Timeline

- Construction duration: 18 months
- Construction initiation: Winter/Early Spring 2022
- Construction completion: Summer/Fall 2023

## Project Need

- World-changing research is one of the central pillars of *Purdue Moves*, the university's strategic agenda. Existing vivarium space is distributed across 18 facilities and inadequately supports current animal research across six colleges. In addition, these spaces cannot accommodate future expected growth.
- Purdue's recently completed Animal Facilities Master Plan identified 12 of the 18 current facilities as requiring renovation or replacement as they do not meet current standards for climate control and mechanical systems or holding room size.

## State Biennial Request History

- This project has not been included in previous state biennial requests

## Project Owner

Dr. Theresa Mayer, executive vice president research and partnerships

# 2021-2023 Capital Request Priority Project Summary

*South Campus Renovations Phase II*

## Scope

- Complete the renovation of Helmke Library and Kettler Hall
  - Upgrade classrooms and some teaching and research labs with improved technology
  - Repair or replace mechanical, electrical and plumbing systems that are failing
  - Modernize elevators and public areas (e.g. corridors, restrooms, stairs, lobbies)

## Location

Purdue University Fort Wayne

## Project Cost

$12M

## Timeline

- Construction duration: 6-12 months
- Construction initiation: Spring 2022
- Construction completion: Fall/Winter 2022

## Project Need

- Kettler Hall was built in the early 1960s as the first structure on the Fort Wayne campus
- Physical structure and space configurations are still sound and viable, but modifications need to be made to accommodate new programs and technologies that did not exist when the buildings were originally constructed
- Air quality and environmental controls will be improved by the renovations
- The Fort Wayne Campus Master Plan that is expected to be finalized this fall identifies Kettler Hall renovations as part of the early priority renovation projects

## State Biennial Request History

- Summary of this project's inclusion in previous state biennial requests:

| Biennium | Project Name | State Funding Request | System Priority | Notes |
|---|---|---|---|---|
| 2019-2021 | South Campus Renovations Phase II | $10M | Priority 2 | |
| 2017-2019 | South Campus Renovations Phase II | $17M | Priority 5 | |
| 2015-2017 | South Campus Renovations Phase II | $26.9M | Priority 5 | |
| 2013-2015 | South Campus Renovations | $42.7M | Priority 4 | $21.35M cash appropriation |

- The change in the amount of state funding requested for this project is a result of the state's allocation of deferred maintenance funds. Fort Wayne's portion of this allocation totals $13.5M over the last three bienniums, and a portion of this funding was used to address elements of this project.

## Project Owner

Ronald L. Elsenbaumer, chancellor, Purdue University Fort Wayne

# 2021-2023 Capital Request Priority Project Summary

*Chiller Plant Upgrade and Chilled Water Line Replacement*

## Scope

- Replace the existing cooling tower and provide an additional chiller for increased capacity on the Westville campus
- Replace the existing chilled water main on the Hammond campus

## Location

Purdue University Northwest

## Project Cost

$9M

## Timeline

- Construction duration: 12-18 months
- Construction initiation: Spring 2022
- Completion utilizing CMc: Summer 2023

## Project Need

- Current infrastructure, on both campuses, has been in service for over 40 years and has exceeded its life expectancy
- The addition of the James B. Dworkin Student Services and Activities Complex on the Westville campus in 2016 resulted in the loss of chilled water redundancy

## State Biennial Request History

- This project was ranked third on the 2019-2021 near-term state biennial request; it was listed as a mid-term project in the biennial submittals for 2015-2017 and 2013-2015

## Project Owner

Dr. Thomas Keon, chancellor, Purdue University Northwest

# 2021-2023 Capital Request Priority Project Summary

*Wade Utility Plant Chiller Replacements*

## Scope

- Replace Chiller #7 in Wade Utility Plant with two new 3,000 ton electric chillers
  - This project includes the demolition of the existing steam turbine chiller and associated structures and connections
  - The addition of structural steel and concrete to modify the floor is required to support the new chillers

## Location

Purdue University West Lafayette Wade Utility Plant

## Project Cost

$12M

## Timeline

- Construction duration: 6 months
- Construction initiation: Fall 2022
- Construction completion: Spring 2023

## Project Need

- The existing 3,000 ton steam turbine chiller is beyond its useful life and running inefficiently as a result; it is currently producing only 50% of the rated capacity
- The steam condenser requires cooled water, which is already limited due to demand
  - Campus is projected to add almost 5,000 tons of additional peak cooling demand with new buildings by September 2022
  - The current system would be unable to support that level, resulting in additional costs to the University
- During peak cooling days, the new chillers will allow for the provision of air conditioning and dehumidification control that is not currently possible in facilities, including laboratories that may require particular conditions
- Two smaller electric chillers provide more flexibility for off peak months and will not increase the load on the already taxed cooling towers; these chillers will quadruple the capacity of the existing chiller
- The current chiller uses an outdated refrigerant that is costly to replenish each summer

## State Biennial Request History

- Summary of this project's inclusion in previous state biennial requests:

| Biennium | Project Name | State Funding Request | System Priority |
|---|---|---|---|
| 2019-2021 | Wade Utility Plant Chiller Replacements | $9M | Medium Term |
| 2017-2019 | Wade Utility Plant Chiller Replacements | $9M | Medium Term |
| 2015-2017 | Wade Utility Plant Chiller Replacements | $9M | Medium Term |

## Project Owner

Jay Wasson, associate vice president of Physical Facilities

# 2021-2023 Capital Request Priority Project Summary – Alternative Legislative Consideration

*Hypersonics and Applied Research Facility*

## Scope

- Construct a new 48,900 GSF building to house the Mach 8 quiet wind tunnel and HYPULSE wind tunnel
- The facility will provide supporting operational rooms and office space for researchers and staff as well as hotel space for external users who will be performing restricted wind tunnel research
- The building will include a space for storage of models that are being tested in the wind tunnels along with a modest machine shop so that models can be modified during the testing
- The building will include characterization labs that will allow for sophisticated and precise experimental measurements and data collection during wind tunnel testing

## Location

Purdue University West Lafayette

## Project Cost

$39M

## Space Summary

| | ASF | GSF |
|---|---|---|
| Space to be Built Out | 28,400 | 48,900 |
| Space to be Demolished | 0 | 0 |
| Net Change in Campus Space | 28,400 | 48,900 |

| | ASF |
|---|---|
| Space to be Repurposed | 0 |
| Campus Space to be Released | 0 |

## Timeline

- Construction duration: 15 months
- Construction initiation: Winter/Early Spring 2022
- Construction completion: Spring 2023
- HYPULSE wind tunnel operational: Fall 2023
- Mach 8 wind tunnel construction and assembly: 2023-2026

## Project Need

- New hypersonic test capabilities, which are critical to our national defense, have been awarded to Purdue University and a new facility is required to house them and allow for research to be conducted

- This will be a national user facility and will bring leaders from academia, industry and government to Purdue University
- Purdue University has been awarded, via the US Air Force Research Laboratory, a grant to design, build and operate the only Mach 8 hypersonic wind tunnel in the world that can accurately measure drag at this flight speed
- Purdue University received a donated wind tunnel (HYPULSE) that measures speeds up to Mach 25 from a research facility in New York. This equipment will allow Purdue and our partners in academia, industry and government to conduct research in propulsion, aerodynamic heating, and advanced materials at hypersonic flight conditions.

## State Biennial Request History

- This project has not been included in previous state biennial requests

## Project Owner

Dr. Theresa Mayer, executive vice president research and partnerships
Dr. Mark Lundstrom, acting dean, College of Engineering

# 2021-2023 Capital Request Priority Project Summary – Alternative Legislative Consideration

*BSL-3 Laboratory*

## Scope

- The biosafety level 3 (BSL-3) laboratory will be a stand-alone building with necropsy facilities for small and large animals; virology and microbiology laboratories; and housing for rodents, avian species and intermediate-size mammals (e.g. pigs, sheep and cattle up to 800 pounds)
- The project will include proper ventilation throughout the building, sterilization equipment for lab materials and animal cages, disposal infrastructure for waste and contaminated subjects, and security protocols including a perimeter fence and video cameras

## Location

Purdue University West Lafayette, southeast of the Animal Disease Diagnostic Laboratory

## Project Cost

$80M

## Space Summary

| | ASF | GSF |
|---|---|---|
| Space to be Built Out | TBD | 42,700 |
| Space to be Demolished | 0 | 0 |
| Net Change in Campus Space | TBD | 42,700 |

| | ASF |
|---|---|
| Space to be Repurposed | N/A |
| Campus Space to be Released | N/A |

## Timeline

- Construction duration: 24 months
- Construction initiation: Summer 2022
- Construction completion: Summer 2024

## Project Need

- Infectious diseases continue to attack humans and animals, which threatens food supply chains and the agricultural economy
- Purdue's Animal Disease Diagnostic Laboratory (ADDL) is a state-of-the-art facility with an exceptionally strong multidisciplinary team of professionals, but it lacks BSL-3 laboratory space and adequate disposal measures for contaminated animals

- The proposed BSL-3 facility would serve as a statewide resource to create defense and prevention strategies for infectious diseases by establishing a laboratory for research, training and diagnostic investigations with highly contagious microorganisms that cause disease
    - Without this facility, samples are sent out of state for processing, which delays diagnosing and response times for imperative research and public health concerns

## State Biennial Request History

| Biennium | Project Name | State Funding Request | System Priority | Notes |
|---|---|---|---|---|
| 2015-2017 | Animal Disease Diagnostic Laboratory (BSL-3) | $30M | Priority 7 | |
| 2013-2015 | Biosafety Lab 3 (BSL-3) | $30M | Priority 6 | |
| 2007-2009 | BSL-3 Laboratory | $30M | N/A | Submitted by the Indiana Department of Administration |

## Project Owner

Dr. Theresa Mayer, Executive Vice President of Research and Partnerships
Dr. Willie Reed, dean, College of Veterinary Medicine

# 2021-2023 Capital Request Priority Project Summary – Alternative Legislative Consideration

*Heeke Diagnostics Laboratory Facility Replacement*

## Scope

- Construct a new approximately 12,500 GSF animal disease diagnostic laboratory facility that would provide services to assist in the eradication of diseases that affect humans and animals
- The renovations will create a biosafety level 2 (BSL-2) diagnostic necropsy lab, seven modular labs and a media prep lab for serology, virology, microbiology and molecular biology
    - Administrative space is also included
- Provide access on all sides of the building to facilitate biocontainment and improve traffic flow

## Location

Southern Indiana Purdue Agriculture Center – Dubois, Indiana

## Project Cost

$12M

## Space Summary

| | ASF | GSF |
|---|---|---|
| Space to be Built Out | TBD | 12,500 |
| Space to be Demolished | N/A | N/A |
| Net Change in Campus Space | TBD | 12,500 |

| | ASF |
|---|---|
| Space to be Repurposed | TBD |
| Campus Space to be Released | 4,700 |

## Timeline

- Construction duration: 12-18 months
- Construction initiation: Spring 2022
- Construction completion: Summer 2023

## Project Need

- The existing Heeke Animal Disease Diagnostic Laboratory facility was constructed in 1969 to support the poultry industry, and a later laboratory addition made it possible to extend services to other animals
    - The facility is outdated and would require significant and costly renovations and upgrades that would be difficult to complete
        - This includes but is not limited to sanitation measures, ventilation, mechanical systems, electrical systems and layout/traffic flow

- The current facility is not a BSL-2 lab; lacks sufficient lab, cooler and animal holding space; and is subpar compared to other state diagnostic laboratories in the United States
- As a BSL-2 lab, the new facility will allow for increased and more efficient testing
    - Automated equipment will reduce error or contamination, and automated building systems will allow for greater monitoring and adjusting of controls to maintain safety, biosafety, biocontainment and biosecurity programs

## State Biennial Request History

- This project has not been included in previous state biennial requests

## Project Owner

Dr. Willie Reed, dean, College of Veterinary Medicine

# 2021-2023 Capital Request Priority Project Summary – Alternative Legislative Consideration

*Office of the Indiana State Chemist*

## Scope

- Construct a new 50,000 GSF facility to meet the growing space needs of the Office of the Indiana State Chemist (OISC) and Seed Commissioner, which is a non-academic unit within the College of Agriculture
    - Includes a number of laboratories for microbiology, pesticides, and hemp; office space and storage space

## Location

Purdue University West Lafayette

## Project Cost

$36M

## Space Summary

| | ASF | GSF |
|---|---|---|
| Space to be Built Out | TBD | 50,000 |
| Space to be Demolished | 0 | 0 |
| Net Change in Campus Space | TBD | 50,000 |

| | ASF |
|---|---|
| Space to be Repurposed | N/A |
| Campus Space to be Released | TBD |

## Timeline

- Construction duration: 24 months
- Construction initiation: Summer 2024
- Construction completion: Summer 2026

## Project Need

- Many new products in the marketplace are regulated by the OISC, and new federal regulations and required testing are exponentially increasing the demand for laboratory space
- Currently, OISC's microbiology unit leases space off campus for $72,000/year, which creates additional costs and inefficiencies. The new facility would meet the standards and OSHA requirements for laboratory and office space while centralizing all staff in one location
- The new facility would be located near other agriculture buildings and allow for collaborative opportunities among College of Agriculture staff

## State Biennial Request History

- This project has not been included in previous state biennial requests

## Project Owner

Dr. Karen Plaut, dean, College of Agriculture

**2021-2031 TEN-YEAR CAPITAL PROJECT PLAN**
**PURDUE UNIVERSITY SYSTEM-WIDE SUMMARY OF MAJOR CAPITAL PROJECTS**

| Proposed Projects | Near Term 2021-23 ($, Millions) | | | Medium Term 2023-25 ($, Millions) | | Long Term 2025-31 ($, Millions) | | |
|---|---|---|---|---|---|---|---|---|
| | Near Term Priority Ranking | Est. State Funding | Est. Other Funding | Est. State Funding | Est. Other Funding | Est. State Funding | Est. Other Funding | Total Project Cost |
| **MAJOR RENOVATIONS** | | | | | | | | |
| **West Lafayette Campus** | | | | | | | | |
| Electrical Engineering Renovation | | - | - | - | - | 43 | - | 43 |
| Physics Building Renovation (Phase I and II) | | - | - | - | - | 90 | 4 | 94 |
| Vivarium Renovations | ② | - | 20 | - | - | - | - | 20 |
| Wade Utility Plant Chiller Replacements | ⑤ | - | 12 | - | - | - | - | 12 |
| Zucrow Labs Compressed Air Renovations | | - | - | - | 18 | - | - | 18 |
| *West Lafayette Campus Subtotal* | | - | 32 | - | 18 | 133 | 4 | 187 |
| **Fort Wayne Campus** | | | | | | | | |
| Building Envelope and Interior Infrastructure Renovations Phase I | | - | - | - | - | 10 | - | 10 |
| HVAC Control Systems Replacement and Upgrade | | - | - | 6 | - | - | - | 6 |
| South Campus Renovations Phase II | ③ | 12 | - | - | - | - | - | 12 |
| *Fort Wayne Campus Subtotal* | | 12 | - | 6 | - | 10 | - | 28 |
| **Northwest Campus** | | | | | | | | |
| Chiller Plant Upgrade (W) and Chilled Water Line Replacement (H) | ④ | 9 | - | - | - | - | - | 9 |
| Fitness and Recreation Center Renovation (Hammond) | | - | - | 6 | 2 | - | - | 8 |
| Gyte Renovation Phase II (Hammond) | | - | - | - | - | 56 | - | 56 |
| *Northwest Campus Subtotal* | | 9 | - | 6 | 2 | 56 | - | 73 |
| *Major Renovations Subtotal* | | 21 | 32 | 12 | 20 | 199 | 4 | 288 |
| | | | | | | | | |
| **NEW CONSTRUCTION** | | | | | | | | |
| **West Lafayette Campus** | | | | | | | | |
| Active Clinical Learning Building | ① | 73 | 25 | - | - | - | - | 98 |
| Aviation Technology Facility Upgrades | | - | - | 42 | 5 | - | - | 47 |
| Controlled Environment Phenotyping Facilities Phases II and III | | - | - | - | - | - | 15 | 15 |
| Forestry and Natural Resources Building Redevelopment | | - | - | 73 | 15 | - | - | 88 |
| Indiana Corn and Soybean Innovation Center Soil Handling Facility | | - | - | - | - | 8 | - | 8 |
| Satellite Chiller Plant II | | - | - | - | - | - | 39 | 39 |
| Zucrow Labs UAV/UAS Facility | | - | - | - | - | - | 11 | 11 |
| *West Lafayette Campus Subtotal* | | 73 | 25 | 115 | 20 | 8 | 65 | 306 |
| **Fort Wayne Campus** | | | | | | | | |
| Chiller Plant Expansion and Utility Infrastructure Replacement | | - | - | - | - | 11 | - | 11 |
| Engineering, Technology and Computer Science Building Addition | | - | - | 49 | - | - | - | 49 |
| Gates Sports Center Student Health Clinic and Athletic Training Addition | | - | - | - | 14 | - | - | 14 |
| Rhinehart Music Building Addition | | - | - | 15 | 3 | - | - | 18 |
| *Fort Wayne Campus Subtotal* | | - | - | 64 | 17 | 11 | - | 92 |
| **Northwest Campus** | | | | | | | | |
| Student Wellness Center (Hammond) | | - | - | - | - | 23 | 3 | 26 |
| *Northwest Campus Subtotal* | | - | - | - | - | 23 | 3 | 26 |
| *New Construction Subtotal* | | 73 | 25 | 179 | 37 | 42 | 68 | 424 |
| | | | | | | | | |
| **TOTAL PROGRAM** | | | | | | | | |
| **TOTAL ESTIMATED FUNDING BY SOURCE** | | **$94M** | **$57M** | **$191M** | **$57M** | **$241M** | **$72M** | |
| **TOTAL ESTIMATED FUNDING BY TERM** | | **$151M** | | **$248M** | | **$313M** | | **$712M** |

| Projects Separated for Alternative Legislative Consideration | Near Term 2021-23 ($, Millions) | | | Medium Term 2023-25 ($, Millions) | | Long Term 2025-31 ($, Millions) | | |
|---|---|---|---|---|---|---|---|---|
| | Near Term Priority Ranking | Est. State Funding | Est. Other Funding | Est. State Funding | Est. Other Funding | Est. State Funding | Est. Other Funding | Total Project Cost |
| **NEW CONSTRUCTION & MAJOR RENOVATIONS** | | | | | | | | |
| Hypersonics and Applied Research Facility | | 20 | 19 | - | - | - | - | 39 |
| BSL-3 Laboratory | | - | - | 80 | - | - | - | 80 |
| Heeke Southern Indiana Replacement | | 12 | - | - | - | - | - | 12 |
| Office of the Indiana State Chemist | | - | - | 6 | 30 | - | - | 36 |
| *West Lafayette Campus Subtotal* | | 32 | 19 | 86 | 30 | - | - | 167 |

| Projects for Innovative Project Delivery Public Private Partnerships | Near Term 2021-23 ($, Millions) | | | Medium Term 2023-25 ($, Millions) | | Long Term 2025-31 ($, Millions) | | |
|---|---|---|---|---|---|---|---|---|
| | Near Term Priority Ranking | Est. State Funding | Est. Other Funding | Est. State Funding | Est. Other Funding | Est. State Funding | Est. Other Funding | Total Project Cost |
| **NEW CONSTRUCTION (P3)** | | | | | | | | |
| **West Lafayette Campus** | | | | | | | | |
| Life Sciences Interdisciplinary Research Building | | - | - | - | 116 | - | - | 116 |
| Student Housing - Meredith Redevelopment Phase II | | - | - | - | 100 | - | - | 100 |
| Student Housing - Hilltop Redevelopment Phase I | | - | - | - | - | - | 100 | 100 |
| *West Lafayette Campus Subtotal* | | - | - | - | 216 | - | 100 | 316 |
| **Fort Wayne Campus** | | | | | | | | |
| Student Housing Phase IV | | - | - | - | 42 | - | - | 42 |
| *Fort Wayne Campus Subtotal* | | - | - | - | 42 | - | - | 42 |