



INDIANA UNIVERSITY



## 2015-2017 Operating and Capital Request and Special State Appropriation Request

September 2014

INDIANA UNIVERSITY  
2015-17 BIENNIUM

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# **2015-17 Biennial Request Executive Summary**

## **Operating Request**

### **Components of Operating Appropriations Submission**

In accordance with the instructions of the Indiana Commission for Higher Education (ICHE) and State Budget Agency (SBA), Indiana University has submitted performance funding data that will enable ICHE to recommend a change in operating appropriations, rewarding IU for progress toward state goals and desired higher education outcomes. IU also requests fee replacement appropriations required for bond payments for the 2015-17 biennium. This submission also includes requests for modest increases for existing special appropriations and a request for funding for two new special line items. IU requests that the \$2.5 million annual appropriation to the Indiana Economic Development Corporation for Indiana University research activities (included in the FY 2013-15 biennial appropriations) be transferred to a special line item under Indiana University. Finally, IU requests that the \$3 million annual appropriation for the IU School of Medicine Medical Centers Expansion be “rolled” into the Centers’ ongoing operating appropriations.

### **IU Schools of Medicine and Dentistry**

In response to a request by Indiana University and as part of its recommendations for the FY 2013-15 biennium, appropriations for the IU Schools of Medicine and Dentistry were moved “outside” the performance funding formula. The appropriation for these schools was increased by the same percentage increase in total state funds appropriated under the performance funding formula. IU requests that this precedent and funding mechanism again be applied for the FY 2015-17 biennium.

### **Performance Funding Formula**

The performance funding metrics provide funding for changes in each measure over a three-year period rolling average (2008 through 2013). Funding is calculated by comparing the average of 2011 through 2013 to the average of 2008 through 2010. Increases in the three year average are shown in the table below. Indiana University has achieved positive results on all of the performance funding metrics:

- *Overall degree completion:* this metric rewards increases in the number of degrees completed by resident students.
- *At-risk degree completion:* this metric provides funding for the change in degrees conferred to at-risk resident students, defined by Pell grant eligibility.

- *High impact degree completion:* this metric provides funding for increased production of degrees that are granted in Science, Technology, Engineering and Math (STEM) fields as defined by national standards set by Complete College America (CCA).
- *Student persistence incentive:* this metric applies to all non-research campuses and funds the change in resident undergraduate completion of credit hours at specified intervals.
- *On-time graduation rate:* this metric provides funding for the change in the graduation rate achieved in four years by resident, undergraduate, first time, full time students.
- *Institution defined productivity metric:* IU and Purdue University have jointly developed a metric which compares funding provided by Indiana taxpayers and Hoosier families per in-state bachelor's degree. The measure focuses on reducing the cost of attendance for students and uses a significance factor developed by ICHE to calculate the performance funding adjustment.

### Total Performance Funding Metric Values Submitted for Indiana University

	Overall Degree Completion			At-Risk Degree Completion			High Impact Degree Completion		
	2008-10 3-Year Avg.	2011-13 3-Year Avg.	Change in 3-Year Avg.	2008-10 3-Year Avg.	2011-13 3-Year Avg.	Change in 3-Year Avg.	2008-10 3-Year Avg.	2011-13 3-Year Avg.	Change in 3-Year Avg.
Bachelor's	8,693	10,202	1,509	1,801	3,072	1,271	1,028	1,460	433
Master's	2,284	2,470	186				232	268	37
Doctoral	487	486	(1)				15	19	3

	Student Persistence Incentive			On-Time Graduation Rate			Institution Defined Productivity		
	2008-10 3-Year Avg.	2011-13 3-Year Avg.	Change in 3-Year Avg.	2008-10 3-Year Avg.	2011-13 3-Year Avg.	Change in 3-Year Avg.	2008-10 3-Year Avg.	2011-13 3-Year Avg.	Change in 3-Year Avg.
30 Credit Hours Completed	2,246	2,877	631				IU: Funding change per resident bachelor's. Varies by campus.		
60 Credit Hours Completed	2,391	2,805	415						
Bachelor's				2,396	3,128	732			

### Fee Replacement Appropriation

Changes in the total amount of fee replacement requested result from 1) scheduled debt service payments on bonds already issued and 2) anticipated debt service for projects authorized by prior General Assembly action. Further changes could result from debt service for projects IU included in its 2015-17 Capital Appropriation Request that are authorized by the General Assembly in the biennial appropriations bill.

### Special State Appropriations

IU also receives special state ("line item") appropriations for activities providing unique services to the state. For the existing special line items, IU requests a 2.5% increase in FY 2016.

## Special State Appropriations

Line Item Schedules BRS XI					
	2014-15 Base	2015-16 Changes		2016-17 Changes	
		Amount	Percent	Amount	Percent
Abilene Network Operations	\$ 707,707	\$ 17,693	2.5%	\$ -	0.0%
Indiana Institute for Disability and Community	\$ 2,105,824	\$ 52,646	2.5%	\$ -	0.0%
Geological Survey	\$ 2,729,199	\$ 68,230	2.5%	\$ -	0.0%
Indiana Advisory Commission on Intergovernmental Relations	\$ 150,000	\$ 3,750	2.5%	\$ -	0.0%
IU Spinal Cord/Head Injury Research Center	\$ 542,578	\$ 13,564	2.5%	\$ -	0.0%
I-Light Network	\$ 1,471,833	\$ 36,795	2.5%	\$ -	0.0%
GigaPOP Operations	\$ 656,158	\$ 16,404	2.5%	\$ -	0.0%
Optometry Education Fund	\$ 1,500	\$ 46,746	3116.4%	\$ (46,746)	-100.0%
IHETS - Video Streaming	\$ 435,269	\$ 10,882	2.5%	\$ -	0.0%
*Dual Credit	\$ 1,454,500	\$ -	0.0%	\$ -	0.0%
**Medical Education Centers Expansion	\$ 3,000,000	\$ (3,000,000)	-100%	\$ -	0.0%
***Clinical and Translational Science Institute	\$ -	\$ 2,500,000	100%	\$ -	0.0%
***Regional Resources to Support Student Academic Success	\$ -	\$ 5,000,000	100%	\$ -	0.0%
***Statewide Engagement	\$ -	\$ 5,000,000	100%	\$ -	0.0%
Totals	\$ 13,254,568	\$ 9,766,710		\$ (46,746)	

\*Calculation based on per credit hour formula

\*\*Request Reallocation to each of the Centers for Medical Education Appropriations

\*\*\*New Line Item Request

IU is requesting that the existing \$3 million appropriation for the *Medical Education Centers Expansion* be “rolled” into the ongoing appropriations for each of the Centers. IU will complete its expansion of the medical school during FY 2017 and thus requests the transfer of the special appropriation funds equally to the eight centers to help continue to finance the costs of the expansion.

As mentioned above, IU also requests that the existing \$2.5 million annual appropriation to the Indiana Economic Development Corporation for Indiana University research activities be transferred to a special line item under Indiana University.

## New Proposed Special State Appropriations

Indiana University is requesting funding for two new special line items. IU requests \$5 million in additional financial support for its regional campuses, beginning with the 2015-2017 biennium. These funds will be used for shared student academic success priorities that are integral to the regional campus missions and to the strategic educational goals of the state of Indiana.

While traditionally a responsibility of land grant institutions, IU has embraced the challenge to be engaged in statewide efforts to foster economic development through the initiatives of the IU Office of Engagement. IU is requesting \$5 million in funds for a new line item to provide technical assistance to Indiana companies, entrepreneurs, health care providers, and governmental units using IU’s special expertise and resources in information technology, informatics, and computing.

## **Funding for Dual Credit**

According to a policy on dual credit coursework adopted by the ICHE in May, 2011, the public universities will limit the tuition for dual credit priority liberal arts and CTE courses to \$25 per hour or less. In return, ICHE committed to provide state funding to help defray remaining course delivery cost under a formula separately determined by the ICHE. For the FY 2013-15 biennium, ICHE set funding at \$50 per credit hour completed.

Indiana University commits that it will continue to abide by the \$25 per hour tuition limitation in conjunction with continued state funding and requests that the state funding level be a minimum of \$50 per credit hour completed.

## **Capital Request**

### **Special R&R Projects**

#### **Bloomington Campus – Old Crescent Renovation – Phase II**

The top priority for the Bloomington campus is Phase II of the Old Crescent (Academic Core) Renovation. This area is the traditional center of campus containing the oldest buildings in the Indiana University system. Renovating these facilities to be primarily academic buildings is a central component of the 2009 IUB Campus Master Plan.

Indiana University proposes to renovate three buildings (Kirkwood Hall, Ernie Pyle Hall, and Swain West) on the IUB campus. Kirkwood Hall is one of the oldest buildings on campus at 120 years (constructed in 1894), Ernie Pyle Hall was completed in 1937, and Swain West in 1940. Due to their age, all three buildings are in need of renovations, including new building systems (heating/air conditioning, electrical, plumbing, computer data, and fire suppression) and improvements to building envelopes (roof, windows, etc.), as well as accessibility upgrades. Classrooms will be refurbished with the latest technologies and seating arrangements to be as effective as possible.

This project is estimated at \$48,500,000 and is the university's highest priority for 2015-2017.

#### **IU School of Medicine Integrated Health Education Complex**

Indiana University proposes a renovation of the former Wishard Regenstrief Building located on the IU School of Medicine/Health Science campus. This project consists of renovating and transforming administrative and clinical space into a state-of-the-art facility with new lab, classroom, and administrative space. New interior infrastructure will include energy efficient mechanical systems, upgraded building systems (electrical, plumbing, computer data, and fire suppression), and accessibility upgrades. The exterior of the building will have new energy efficient windows added and the roof will be updated. Renovation of this existing facility in its

centralized location on the former Wishard campus is a more efficient use of space and resources than new construction, and will allow students and faculty to work in close proximity to other critical practice and research facilities.

The Integrated Health Education Complex directly supports the university's life sciences initiative, and will centrally locate students and faculty with practice opportunities at IU Health University Hospital, Eskenazi Health, Richard L. Roudebush VA Medical Center, and Riley Hospital for Children, as well as state-of-the-art research collaboration opportunities at the adjacent IU Center for Drug Discovery. This renovation will support Interprofessional Education, which encourages interaction and collaboration among students, faculty and staff in multiple programs. These programs include medicine, nursing, dentistry, optometry, social work, pharmacy, and others.

This project is estimated at \$45,000,000 and is the university's second highest priority for 2015-2017.

### **IU School of Medicine Health Science Innovation Renovation and Expansion**

Indiana University proposes the renovation and expansion of the former Wishard Bryce and Ott Buildings located on the IU School of Medicine/Health Science campus. This facility will house units of the IU School of Medicine and Health Science programs and serve other affiliated organizations such as the Indiana Biosciences Research Institute, creating research and innovation space for the expansion of health science research and related growth enterprises. This project consists of renovating and transforming hospital support spaces into state-of-the-art research, innovation, classroom, and administrative spaces in close proximity to other research and practice facilities such as IU Health University Hospital, Eskenazi Health, Richard L. Roudebush VA Medical Center, and Riley Hospital for Children. New infrastructure will include energy efficient mechanical systems, upgraded building systems (electrical, plumbing, computer data, and fire suppression), accessibility upgrades, and updated roofs.

This renovation and expansion will forge partnerships and connections between industry and Indiana University in a synergistic environment, furthering growth and learning opportunities for IU students and researchers, as well as contributing to the economic advancement of the state of Indiana via the development of new businesses and products in biosciences.

This project is estimated at \$30,000,000 and is the university's third highest priority for 2015-2017.

### **Bloomington Campus – Lab Renovations – Phase II**

Three buildings on the IUB campus (Geological Sciences, Chemistry, Jordan Hall) are in need of upgrades and renovations to bring these facilities up-to-date with modern standards for lab space and overall building efficiency, as well as occupant safety. This is a continuation of work begun in the Life Sciences Lab Renovations project, which specifically targeted mechanical systems for labs in Jordan Hall. Overall building infrastructure upgrades will be a major focus of this project, seeing the improvement of the mechanical systems for all three buildings, as well



as ensuring a best and safe learning environment with the installation of multiple fume hoods and air exchange equipment, in addition to plumbing and electrical upgrades to meet code requirements. Teaching lab and research spaces will be upgraded and renovated with new technologies, research equipment, and flooring. These lab and research spaces also will be reconfigured from individual labs to shared spaces that will encourage collaborative efforts.

Upgrades and renovations of these facilities would provide a place where students and faculty could realize the university's full vision for collaborative science research in state-of-the-art facilities. Current lab spaces are designed for one researcher in one lab space; renovations will allow multiple researchers to collaborate on projects in a more flexible, modern and safe environment. Renovations will allow programs in Geological Sciences, Chemistry, and Biology to continue to attract high-caliber students and research funding.

This project is estimated at \$33,000,000 and is the university's fourth highest priority for 2015-2017.

### **Regional Campus Deferred Maintenance**

Indiana University proposes to address deferred maintenance issues currently affecting its regional campuses. The regional campuses at Indiana University (East, Kokomo, Northwest, Southeast and South Bend) have deferred maintenance of approximately \$27,875,000. These projects are the university's fifth highest priority for 2015-2017 and include replacements/repairs of building exteriors, campus systems/building systems, road improvements, and code updates for accessibility and campus safety.

### **Other Project**

#### **Multi-Institutional Academic Health Science and Research Center**

The Indiana University School of Medicine (Medical Education and Research), University of Southern Indiana (Occupational Therapy and Health Informatics), University of Evansville (Physical Therapy and Physicians' Assistant Program), and Ivy Tech Community College of Indiana (Health Sciences and Nursing) seek to co-locate health profession education delivery in the Evansville region. Each University is committed to creating learning environments which promote academic excellence, foster personal development, and enhance the University experience for diverse student populations. Total new space required for these instructional and research activities will be approximately 223,100 gross square feet to be located in one facility complex in downtown Evansville. Indiana University's portion of the facility will be 77,516 gsf at a cost of \$19,200,000, with the remaining gsf divided amongst Ivy Tech, University of Evansville, and University of Southern Indiana.

## State Formula R&R Funds

State formula R&R funds, in combination with university funds, are crucial to proper maintenance and repair of Indiana University academic facilities and infrastructure. The following chart summarizes current asset values at each of IU's campuses.

2015-2017 CHE R&R Formula - TOTAL			
Indiana University	R&R Asset Total (based upon Academic Space)		Infrastructure Asset Total
Bloomington	\$	2,142,988,395	\$ 269,132,700
East	\$	69,405,348	\$ 8,224,257
Kokomo	\$	96,157,651	\$ 6,212,980
IUPUI (includes IUPUI-CO)	\$	1,726,457,780	\$ 65,481,617
Northwest	\$	154,400,406	\$ 12,261,808
South Bend	\$	189,647,285	\$ 11,480,697
Southeast	\$	167,557,595	\$ 18,053,547
<b>IU TOTALS</b>	<b>\$</b>	<b>4,546,614,460</b>	<b>\$ 390,847,606</b>

For the FY 2015-17 biennium, IU requests state formula R&R funding calculated at 50% of what the formula generates, which would total \$49,374,621 for the biennium. These funds would be matched by university funds.



## Institutional Narrative



# Indiana University Institutional Narrative

## Introduction

In this narrative, Indiana University provides a sampling of IU's initiatives and accomplishments during the past two years based on the three key objectives (success agenda items) included in the Indiana Commission for Higher Education's strategic plan, *Reaching Higher: Achieving More*. Using this framework demonstrates IU's commitment to assist the Commission with attaining its objectives for:

- Student Success and Completion
- Institutional Productivity
- Quality and Competitiveness

## I. Student Success and Completion

### A. IU Initiatives and Programs

Indiana University is dedicated to improving student success, ultimately measured by higher graduation rates. Accordingly, IU has initiated a multitude of programs designed to increase student persistence and graduation. A few of these programs are highlighted in this section.

#### New Office of Completion and Student Success

Indiana University has established a university-wide Office of Completion and Student Success to facilitate and coordinate student completion activities through four key strategies:

- Training and resource development across the campuses
- Monitoring and reporting on efforts both internally and externally
- Guiding development of appropriate technology to support completion, as described in the "IU Student Success Initiatives" section below
- Integrating research into completion efforts to identify ways in which practices can be improved

The office will work with all IU campuses to foster and support completion and provide an ongoing structure to ensure that student access and success are at the forefront on all IU campuses. The office will also lead implementation of IU's student success initiatives described in the following paragraphs.

Indiana University is implementing enhanced systems to support students, academic and career advisors, and faculty – all aimed at improving student success. The centerpiece of this system is iGPS - the Interactive Graduation Planning System. iGPS ties together a set of services within IU's Student Information System:

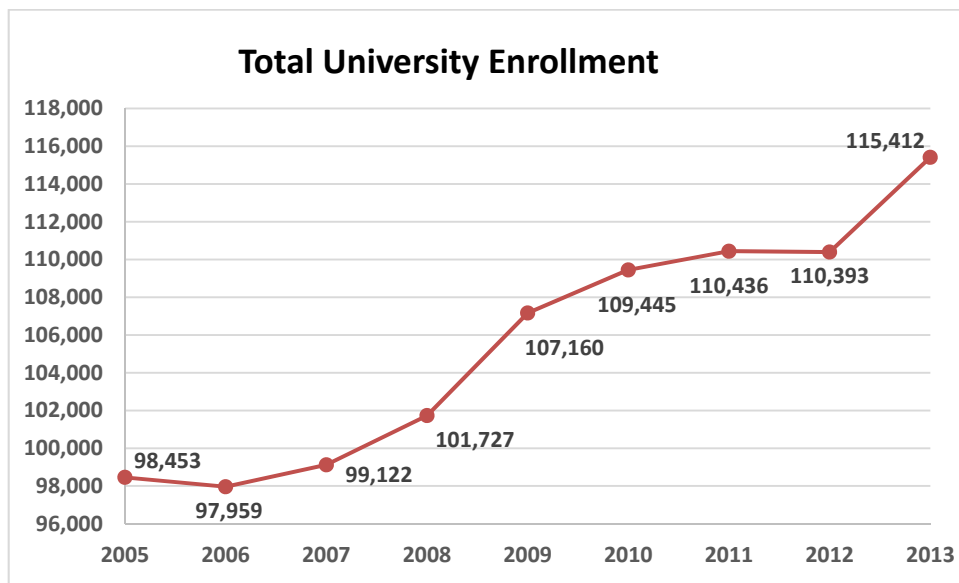
- **Degree maps, the academic planner, and the schedule builder:** These tools work together to allow students to see the courses that they need to take each semester in order to complete a specific major, plan which courses they would like to take each semester, and schedule courses for each semester.
- **FLAGS (Fostering Learning and Graduation Success):** IU's early alert application that allows faculty to "flag" students who are not attending classes, are underperforming, or are otherwise determined to be at-risk. Faculty are able to provide suggestions for corrective action and alerts that are visible to academic advisors, and academic support center directors (as well as students), who are able to proactively reach out to at-risk students.
- **AdRX (Advising Records) System:** Alerts and other key data about individual students can be accessed by advisors through the AdRX, which supports student success by making the entire advising record visible to all advisors as the student progresses through the undergraduate experience.
- **Academic Advisement Report (AAR):** The AAR is used by students and advisors to determine whether a student's coursework satisfies degree requirements.
- **Student Success Collaborative platform:** The platform, developed by the Education Advisory Board, provides advisors with a predictive model of student success by calculating the likelihood of each student graduating in his or her major. In addition, academic programs can define explicit courses as success markers – courses that must be completed by a specific term, or with a minimum grade if the student is to succeed.
- **Symlicity System:** Provides career advising tools, job search, recruitment management, and internship management capabilities using a single platform available to students, career service professionals, and companies recruiting students.

## University Transfer Office

Responding to current academic trends – increased student transfer frequency - Indiana University has established a new University Transfer Office (UTO). The office provides comprehensive information and appropriate referrals to transfer students from other institutions as well as students transferring from one IU campus to another. The UTO is developing a clearinghouse for transfer information, and efficient university-wide transfer operations (including a comprehensive website), adopting new transfer policies to ensure consistency across campuses, and implementing best practices based on research and data. The UTO works with the ICHE through the Statewide Transfer and Articulation Committee and is collaborating with sister institutions on transfer initiatives.

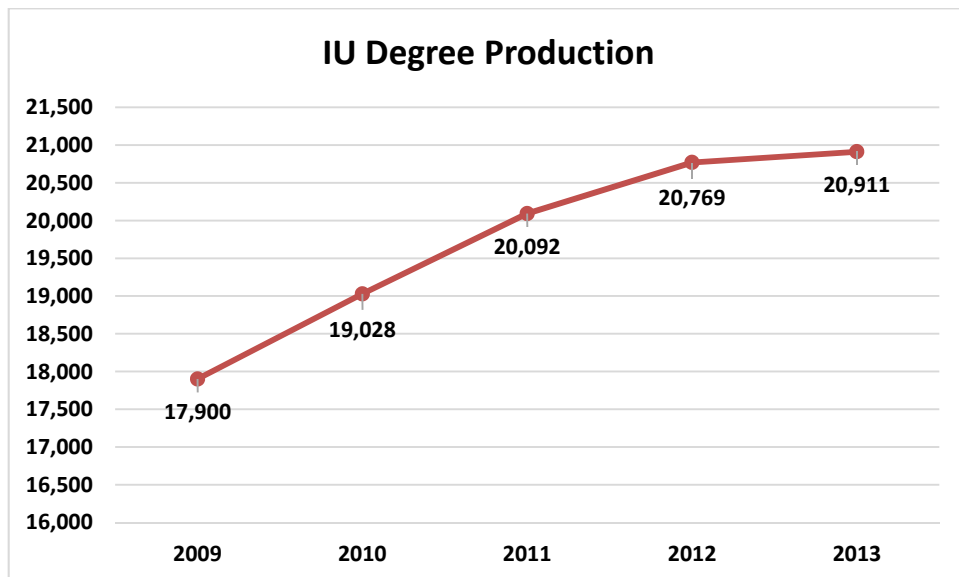
## B. Major Improvements on Key State Indicators

Indiana University's system-wide fall enrollment has exceeded 100,000 students since 2008.



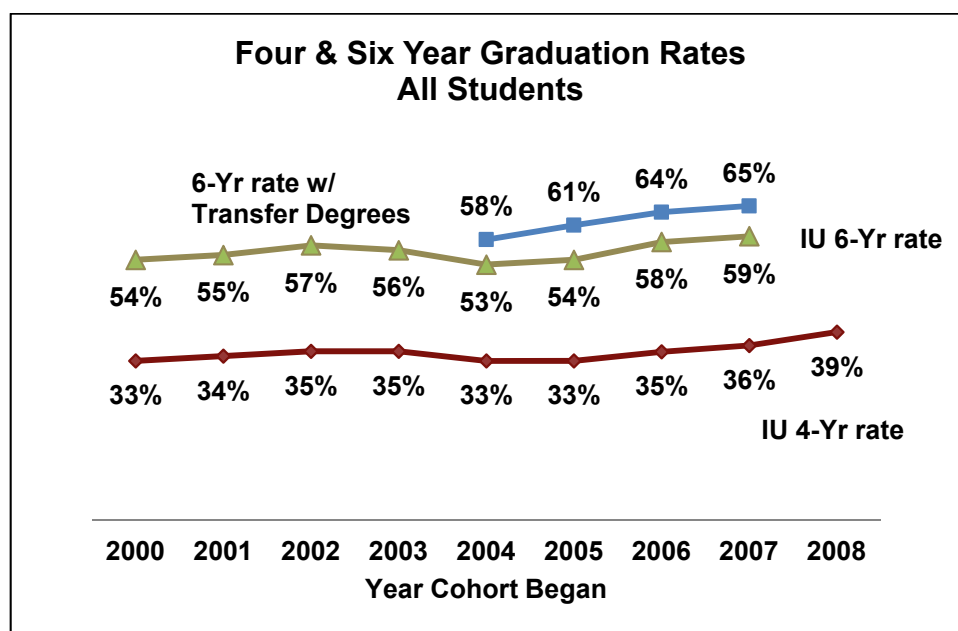
Note: 2013 enrollment includes, for the first time, approximately 4,500 high school students enrolled in dual credit courses at the Bloomington campus.

Total degrees awarded (all levels) have also increased by 17 percent from 2009 to 2013.



IU is working hard to improve the graduation rates at all of its campuses with real progress made as indicated in the chart below, which displays university-wide four-year and six-year graduation rates. The rates vary by campus according to the characteristics of students, with the Bloomington campus achieving the highest graduation rates given its predominant enrollment of full-time, traditional aged students. Using data only recently available, the chart also displays the six-year graduation rate for students that started at an IU campus but transferred and completed their degree at another institution.





Finally, IU is piloting two initiatives designed to reduce tuition costs. IU's "Finish in Four" initiative, which freezes tuition for juniors and seniors on track to graduate in four years, is encouraging students who are able to attend full-time to enroll in 15 credit hours per semester. The early results are remarkable – university-wide, IU enjoyed a 19.3% increase in the number of full time students taking 15 or more credits during fall 2013 compared to fall 2012. When the Bloomington campus is excluded, where the majority of students are full time, the results are more impressive – a **90% increase** in fall, 2013 over fall 2012.

In addition to "Finish in Four," the Bloomington campus, which uses a flat tuition rate, has increased the number of credit hours covered by the flat rate for full-time attendance from a maximum of 17 credit hours per semester to 18 effective fall 2014, providing another incentive for students to complete on time or early.

### C. Student Success – Greater Affordability and Less Debt

#### Modest Tuition Increases, Institutional Aid, and Net Cost

For academic years (AY) 2013-14 and 2014-15, IU undergraduate resident tuition increases were 1.75 percent each year for all students across all campuses. These tuition increases are lower than the 2.9 percent national average increase for public four-year institutions for AY 2013-14, the most recent year reported in the College Board's *Trends in College Pricing 2013* annual report. In addition, IU has more than tripled its resident undergraduate institutional student financial assistance since AY 2005-06 in order to ensure that an IU degree is affordable for any qualified Hoosier student.

IU's institutional aid programs, along with both state and federal student financial assistance, significantly reduces the cost of attending each of IU's campuses according to data published annually by the U.S. Department of Education. The following table details for each IU campus the average net

cost to students, the total cost of attendance, and net cost as a percentage of total cost of attendance. As can be determined, students' out of pocket costs, on average, are about 50 percent or less of the total cost of attending college. The average net price for the Bloomington campus is the *lowest* of the 13 public Big 10 institutions.

U.S. DOE Net Cost AY 2012-13	Average Net Price	Total Cost of Attendance (COA)	Average Net Price as a % of Total COA
IU Bloomington	\$11,361	\$23,116	49.1%
IU East	\$7,948	\$19,924	39.9%
IU Kokomo	\$9,834	\$19,721	49.9%
IU Northwest	\$11,866	\$24,022	49.4%
IUPUI	\$12,713	\$23,941	53.1%
IU South Bend	\$10,997	\$21,568	51.0%
IU Southeast	\$10,184	\$21,116	48.2%

## Financial Literacy

Indiana University created an Office of Financial Literacy in 2012, launching programs to raise student awareness of the risk of excessive borrowing for college and to help students make good financial decisions. Specific programs include:

- MoneySmarts website: This site provides basic online information about managing money, podcasts on specific financial literacy topics, and calculators to help students with budgeting and project loan payments
- New students financial literacy training: Beginning in fall 2013, 11,000 new students on seven campuses completed a mandatory 90 minute online learning module
- New one credit personal financial courses: A pre-existing Kelley School of Business 3 credit course was transformed into three 1 credit courses to make personal finance more attainable for more students

As part of the financial literacy initiative, IU also instituted a number of changes in business practices designed to help students limit debt:

- A standardized student aid letter: clearly distinguishes grants and scholarships from loans and provides information about the difference between these types of financial assistance
- An annual debt letter: informs students how much they have borrowed and projects loan payments after graduation, assuming they continue at the same pace of borrowing
- Review of loans before acceptance: students now must affirmatively take action to accept loans replacing the prior default acceptance based on eligibility for loans

- Standardized, tiered cost of attendance calculation methodology: employed by each campus, resulting in reductions at certain campuses and lower student borrowing
- Budgets for part-time students: instead of a single budget based on 12 credit hours, IU now uses variable budgets based on 6, 9, and 12 credit hours reducing student borrowing

During the 2013-14 academic year, the amount of federal loans taken by undergraduates at all IU campuses **decreased** by \$31 million, or 11 percent from the prior academic year. IU believes that this significant reduction is at least in part due to its financial literacy strategies described above.

## II. Institutional Productivity

For many years, IU has pursued efforts to be more efficient with use of its available funds. Indeed, pursuit of cost efficiencies is an ongoing effort receiving high priority.

### A. Employee Benefit Cost Containment and Early Retirement Program

As is the case with other large employers, healthcare and retirement benefits at Indiana University are major cost-drivers. Accordingly, IU has pursued initiatives to constrain cost increases in these areas with great success. A major initiative in recent years has been to increase employees' enrollment in consumer-driven high deductible/health savings plans resulting in a dramatic increase in participation - from 9 percent in 2011 to nearly 80 percent 2014. IU has also reduced retirement plan contributions for faculty and staff as employees with higher contribution plans retire and are replaced by an employee base with lower contributions. In addition, IU has established a new, lower cost retirement plan for administrative and service employees. As a result of these and other initiatives, IU expenditures for employee benefits is projected to **decline** by \$27.7 million or 5.8 percent in FY 2014-15.

IU also implemented an early retirement separation incentive for employees at least 60 years old with 15 years of full time service. Nearly 350 employees took advantage of the program, resulting in more than \$9 million in savings across its campuses.

### B. Student Services Initiative

The IU Student Services Initiative (SSI) is focusing on business practices in the areas of admissions, financial aid, student records, and student financials (bursar activities), and system-wide support to all IU campuses. The goal of the initiative is to standardize business practices, maximize use of technology, and develop a shared services model (system-wide vs. campus). The project will improve student service, adopt best practices, eliminate duplication across IU campuses by consolidating many student services function under a system-wide model, and reduce operating costs through efficiencies. IU estimates that the project will reduce FTE employees by 70 and produce annual savings of more than \$3.6 million. Additional savings will be realized by automating student related processing in the academic departments and schools.

## **C. Strategic Procurement**

Indiana University continues to focus on managed spending to achieve savings through all sources of purchasing including negotiated contracts, competitive bidding, and transaction cost avoidance. Managed spending now comprises approximately 95% of total spend resulting in savings approximating \$100 million this past fiscal year. Further efficiencies will be gained through enhancing strategic procurement methodologies through spend analytics, contract improvement, and Supplier Relationship Management. Supplier diversity initiatives have also resulted in increased spend for each of the past several years.

## **III. Institutional Quality and Competitiveness**

### **A. New Academic Directions Initiative**

In a response to a directive from President McRobbie to improve efficiency, innovation, and collaboration, Indiana University has implemented a number of major changes in academic structure and operation at the Bloomington and Indianapolis campuses over the past three years:

- Creation of the Lilly Family School of Philanthropy and the Fairbanks School of Public Health at the Indianapolis campus
- Creation of the School of Global and International Studies and the School of Public Health at the Bloomington campus
- Creation of the Media School from the merger of journalism, telecommunications, and communication and culture programs and merger of the School of Informatics with the School of Library and Information Sciences, both at the Bloomington campus
- Launch of IU Online, discussed in more detail below

### **B. IU Online**

In September, 2012 the University launched IU Online, a major strategic investment in online education to accelerate the development and delivery of quality online courses and programs across IU campuses. Through IU Online, the university will marshal its academic and technological resources to expand existing online programs and develop new offerings that are geared toward improving student learning, encouraging greater undergraduate degree completion, strengthening the state's workforce, and reaching new populations of students in Indiana and elsewhere. IU Online is focusing on four priorities:

- Creating undergraduate degree programs
- Creating graduate degree and certificate programs
- Providing online options for high-enrollment undergraduate courses
- Exploring experimental modes of education

Through the initiative, IU's Bloomington and Indianapolis campuses will focus on graduate and professional programs while IU's regional campuses will jointly develop and deliver undergraduate degree programs. Already the IU Online initiative is producing results – during the spring 2014

semester, nearly 20,000 students took one or more online classes compared to about 12,500 during the spring 2010 semester.

### **C. Research Quality – The Indiana Clinical and Translational Science Institute (CTSI)**

Indiana University expended \$439 million in contract and grant funds during FY 2013. The Indiana Clinical and Translational Science Institute (CTSI) accounts for a significant component of IU's research portfolio. The Indiana CTSI, established in 2008 with an initial \$25 million, five-year grant from the National Institutes of Health (NIH), is the only statewide translational science hub in the U.S. and is led by Indiana University in partnership with Purdue University and the University of Notre Dame, bringing together the best research capabilities of each institution. Recently, NIH renewed its funding for another five years in the amount of \$30 million.

The Indiana CTSI's mission is to speed the translation of new laboratory discoveries into new health care practices and therapies resulting in better medical outcomes for patients. The Indiana CTSI is transforming the research community in the participating institutions by creating an environment that facilitates collaborative clinical and translational research by sharing expensive research infrastructure and technical expertise and by partnering with Indiana commercial and philanthropic organizations. Finally, the Indiana CTSI is engaged in economic development through its work with small start-up companies, some of which were begun by Indiana CTSI-supported scientists.

### **D. Bicentennial Planning**

In 2020, alumni, students, friends, faculty, and staff from all of IU campuses will document, honor, and reflect on the proud history and brilliant future of Indiana University as the institution celebrates its bicentennial. As part of this celebration, and to ensure a third century of success, each campus is developing new strategic plans that will define the objectives and vision for the next five academic years, to be implemented by the Bicentennial along with goals to be realized and recognized in that year. Thus, in 2020, IU will both celebrate the university's proud heritage and drive completion of new initiatives around this historic state milestone.

## Summary of Performance Metrics



**Indiana University  
2015-17 Biennium  
Summary of Performance Metrics: Resident Students**

	Degree Completion			At-Risk Degree			High Impact Degree			Student Persistence			On-Time Graduation			Institution Defined Metric					
	2008-10	2011-13	Chg. in	2008-10	2011-13	Chg. in	2008-10	2011-13	Chg. in	2008-10	2011-13	Chg. in	2008-10	2011-13	Chg. in	2008-10	2011-13	Change in			
	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	Description	3-Year Avg.	3-Year Avg.	Description	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.	3-Year Avg.			
Indiana University																					
Bloomington																					
Bachelor's	4,018	4,558	540	595	951	356	522	852	331				Students Receiving a Bachelor's in 4 Years:								
Master's	614	717	103				48	56	8				No. of Students	2,005	2,485	480	\$ 79,877	\$ 66,418	\$ (13,459)		
Doctoral	214	213	(1)				15	19	3				On-Time Rate	46.4%	55.0%	8.6%			-16.8%		
East																					
Bachelor's	210	356	146	84	173	89				30 Cr. Hrs.	225	300	76	10	25	16	\$ 82,386	\$ 57,921	\$ (24,465)		
Master's	3	22	19							60 Cr. Hrs.	254	315	61	5.2%	9.9%	4.8%			-29.7%		
Doctoral	-	-	-																		
Kokomo																					
Bachelor's	309	377	68	87	143	56				30 Cr. Hrs.	232	346	114	25	36	11	\$ 68,403	\$ 62,725	\$ (5,678)		
Master's	32	42	10							60 Cr. Hrs.	288	376	88	7.4%	9.7%	2.3%			-8.3%		
Doctoral	-	-	-																		
Northwest																					
Bachelor's	376	465	88	102	168	65				30 Cr. Hrs.	550	765	215	30	51	21	\$ 96,698	\$ 86,037	\$ (10,661)		
Master's	147	152	5							60 Cr. Hrs.	588	661	73	6.6%	8.8%	2.3%			-11.0%		
Doctoral	-	-	-																		
South Bend																					
Bachelor's	565	664	100	173	269	96				30 Cr. Hrs.	754	864	110	30	49	19	\$ 86,960	\$ 78,527	\$ (8,433)		
Master's	176	162	(14)							60 Cr. Hrs.	692	804	112	4.5%	5.8%	1.4%			-9.7%		
Doctoral	-	-	-																		
Southeast																					
Bachelor's	464	531	67	96	199	103				30 Cr. Hrs.	485	602	116	56	66	10	\$ 82,810	\$ 74,601	\$ (8,209)		
Master's	113	102	(11)							60 Cr. Hrs.	569	650	81	9.2%	9.0%	-0.1%			-9.9%		
Doctoral	-	-	-																		
IUPUI -- General Academic																					
Bachelor's	2,751	3,252	501	664	1,170	506	506	608	102										Funding per Bachelor's:		
Master's	1,199	1,272	74				184	213	29										No. of Students	241	416
Doctoral	273	273	0				-	-	-	On-Time Rate	11.5%	17.0%	5.6%						-11.9%		
IU Schools of Medicine and Dentistry																					
In response to a request by Indiana University and as part of its recommendations for the FY 2013-15 biennium, appropriations for the IU Schools of Medicine and Dentistry were moved "outside" the performance funding formula. The appropriation for these schools was increased by the same percentage increase in total state funds appropriated under the performance funding formula. IU requests that this precedent and funding mechanism again be applied for the FY 2015-17 biennium.																					
Total Indiana University																					
Bachelor's	8,693	10,202	1,509	1,801	3,072	1,271	1,028	1,460	433	Undergraduates:			30 Cr. Hrs.	2,246	2,877	631	Students Receiving a Bachelor's in 4 Years:				
Master's	2,284	2,470	186				232	268	37	60 Cr. Hrs.	2,391	2,805	415	2,396	3,128	732	Results vary by campus.				
Doctoral	487	486	(1)				15	19	3												

\* Indiana University and Purdue University have jointly developed a metric which compares funding provided by Indiana taxpayers and Hoosier families per in-state bachelor's degree. The measure focuses on reducing the cost of attendance for students and uses a significance factor developed by ICHE to calculate the performance funding adjustment. The downward trend equals a decrease in the cost of attendance and a positive result in the ICHE's performance funding formula.





## Special State Appropriations



INDIANA UNIVERSITY  
2015-17 SPECIAL STATE APPROPRIATION REQUEST

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INDIANA UNIVERSITY  
2015-17 OPERATING APPROPRIATION REQUEST

Summary of Proposed Requests

	2014-15			2015-16			2016-17			
	Budget			Amount Chg.	Pct Chg	Amount	Amount Chg.	Pct Chg	Amount	
Abilene Network Operations Center	\$	707,707	\$	17,693	2.5%	\$ 725,400	\$	-	0.0%	\$ 725,400
Indiana Institute on Disability and Community	\$	2,105,824	\$	52,646	2.5%	\$ 2,158,470	\$	-	0.0%	\$ 2,158,470
Indiana Geological Survey	\$	2,729,199	\$	68,230	2.5%	\$ 2,797,429	\$	-	0.0%	\$ 2,797,429
Indiana Advisory Commission on Intergovernmental Relations	\$	150,000	\$	3,750	2.5%	\$ 153,750	\$	-	0.0%	\$ 153,750
IU Spinal Cord and Head Injury Research Center	\$	542,578	\$	13,564	2.5%	\$ 556,142	\$	-	0.0%	\$ 556,142
I-Light Network	\$	1,471,833	\$	36,795	2.5%	\$ 1,508,628	\$	-	0.0%	\$ 1,508,628
Indiana GigaPOP Operations	\$	656,158	\$	16,404	2.5%	\$ 672,562	\$	-	0.0%	\$ 672,562
Optometry Board Education Fund	\$	1,500	\$	46,746	3116.4%	\$ 48,246	\$	(46,746)	-100.0%	\$ 1,500
IHETS/State Video Streaming	\$	435,269	\$	10,882	2.5%	\$ 446,151	\$	-	0.0%	\$ 446,151
* Indiana Dual Credit	\$	1,454,500								
** Medical Education Centers Expansion	\$	3,000,000	\$	(3,000,000)	-100.0%	\$ -	\$	-	0.0%	\$ -
*** Clinical and Translational Science Institute	\$	-	\$	2,500,000	100.0%	\$ 2,500,000	\$	-	0.0%	\$ 2,500,000
*** Regional Resources to Support Student Academic Success	\$	-	\$	5,000,000	100.0%	\$ 5,000,000	\$	-	0.0%	\$ 5,000,000
*** Statewide Engagement	\$	-	\$	5,000,000	100.0%	\$ 5,000,000	\$	-	0.0%	\$ 5,000,000
TOTALS	\$	13,254,568	\$	9,766,710		\$ 21,566,778	\$	(46,746)		\$ 21,520,032

\* Calculation based on per credit hour formula

\*\* Request Reallocation to each of the Centers for Medical Education Appropriations

\*\*\* New Line Item Request

## **ABILENE/GLOBAL NOC – FY 2015-2017 APPROPRIATIONS REQUEST**

**Origins and Purpose of the Program:** The Abilene Network Operations Center (Abilene NOC) was formed in 1998 to help Internet2 build a new network to serve the Research and Education (R&E) community. Indiana University has been delivering high quality network operations center services for Internet2's Abilene network (renamed the Internet2 Network) ever since. Leveraging the funds from the continued state investment, the Network Operations Center has been able to procure additional funding opportunities and contracts and has grown from the original three-person staff to an organization of more than 90 people who provide carrier grade operations, tools, and network expertise for an advanced R&E network. In many respects, the Center is like a new company start-up employing highly skilled employees.

Today the Abilene NOC /Global Research Network Operations Center (GlobalNOC) at Indiana University is the premier operational partner for many of the world's most advanced research and education networks. As a member of the very community it serves, the GlobalNOC focuses on the particular requirements of R&E networks. This concentration helps drive science, learning, and humanities developments so its partners can solve the challenges of tomorrow, today. The GlobalNOC teams work to ensure reliability, performance, and advanced capabilities for more than 20 projects.

**How the Program Serves Indiana:** The appropriation helps finance Indiana University's efforts to support local and national research and education networking projects. In Indiana, I-Light and all its member institutions, including state government, are direct recipients of services provided by the GlobalNOC. Network monitoring, troubleshooting, problem resolution and capacity planning are included in these services.

Primary beneficiaries include I-Light, state government, Indiana Universities and colleges, national research network organizations, and regional optical networks. Access to reliable network services is critical to providing information in nearly every aspect of business, education and community engagement for the institutions the GlobalNOC supports. In a recent report from the Department of Homeland Security, the data networks which support higher education and state government is now classified as critical infrastructure. The GlobalNOC understands this and from our work with national level networks, including the NOAA science network, is well prepared to respond to any event which threatens the operation of the state network, supporting higher education and state government.

**Accomplishments FY 2013-15:** Recent accomplishments include:

- The GlobalNOC created and participated in the Summer of Networking program, which brought undergraduates from across the state to spend the summer as interns, learning about advanced networking from the developers, system administrators, and network engineers at the GlobalNOC.
- Completed Monon100, the first state-launched 100 Gbps network link dedicated to research and education.

- Worked with I-Light to upgrade a portion of the I-Light backbone to 100Gbps and add an additional 10Gbps wavelength.
- Secured a NSF award for \$3.8 million for the Open Science Grid Operations Center.
- With the support of external sources, the GlobalNOC increased the headcount of highly skilled developers, engineers, and technicians in the state by 15% during this period.
- Data on number of units of service:
  - Total headcount within the NOC: 91 (+12 open positions, 15% growth since 7/2013)
  - Calls received 2013: 17,146
  - Calls received 2012: 10,624
  - Tickets opened 2013: 17,835
  - Tickets opened 2012: 8,380
  - Emails received 2013: 204,510
  - Emails received 2012: 173,034

**Goals for the FY 2015-17 Biennium:** Planned new initiatives for the upcoming biennium include:

- Complete rewrite of several major monitoring systems is underway. The primary issue is that as backbone networks move from 10Gbps to 100Gbps, the speed of our monitoring toolset also needs perform at a factor of 10X faster.
- Continue to leverage the ongoing investment by the State of Indiana to draw additional support contracts and attract highly skilled staff to the state.
- Educate students and engineers throughout the state in advanced high-speed networking through workshops and internships.
- Work with like organizations in the United States to develop a training curriculum targeted at small and medium colleges/universities with a goal of improving network performance and competitiveness for granting opportunities. I-Light member schools have been used for pilot testing.
- Expand the contractual relationship with the National Oceanic and Atmospheric Administration (NOAA) to include support for their National Environmental Satellite, Data, and Information Service satellite network.
- Improve responsiveness to outages.
- Have disaster recovery processes in place to move the entire operations fully off site in under 15 minutes while not impacting the operations of any of the customer networks.
- Improved redundancy.
- Investigate the option of an out of state facility to house operational staff and data to improve resiliency in the event of a catastrophic natural disaster in Indiana.

**FY 2015-17 Operating Appropriation Request:** A 2.5% increase in funding is requested for FY 2016.



## INDIANA INSTITUTE ON DISABILITY AND COMMUNITY – FY 2015-2017 APPROPRIATIONS REQUEST

**Origins and Purpose of the Program:** The Indiana Institute on Disability and Community was established by the Indiana University Trustees in 1969 and its facilities built in 1970 with funding from the U. S. Department of Health and Human Services. This was the result of the Developmental Disabilities and Assistance Act of 1963, signed by President John F. Kennedy. The Institute has been recognized with an appropriation from the Indiana Legislature since 1969. The mission of the Indiana Institute on Disability and Community is to work with communities to welcome, value, and support the meaningful participation of people of all ages and abilities through research, education, and service.

**How the Program Serves the Indiana:** Indiana communities, like states and communities nationwide, are faced with continued, unprecedented uncertainty and economic shifts. Schools and communities are being called upon, even required, to do better – with fewer financial resources. People with disabilities, of all ages, are a part of these communities, yet the costs associated with students and adults with disabilities have come to public attention and concern. In particular, the rapid increase in the diagnosis of autism creates tremendous needs in schools and communities.

As a result, schools and communities are seeking to “do better” with less funding and the Institute is responding to such needs, including increasing the employment rate of people with disabilities and evaluating teacher effectiveness in terms of student growth and learning.

It is the work of the Institute to engage in the research, education, and service that helps Indiana with these kinds of needed improvements. As the state of Indiana’s University Center for Excellence in Research, Education, and Service (as designated by the U. S. Department of Health and Human Services), it is a primary, and often the only, source of this work in Indiana. These are the kinds of services being asked of the Indiana Institute on Disability and Community:

- Preschools and kindergartens are asking how to deliver effective early education in order that all children are ready for their school years.
- Schools are asking how to develop methods of universal design in teaching that benefits all children, including children with disabilities.
- Schools are asking how to develop methods for teaching and including children with behavioral support needs and autism.
- High schools are asking how to insure that all young people transition from high school to post-secondary education or employment.
- Schools are asking how to train teachers to be the brightest and the best and fluent in the best technologies and instructional methods known.
- Employers are asking how to include people with disabilities in their work force.
- Non-profit agencies are asking how to train staff to deliver the best known intervention and support to individuals.
- Policy makers are asking for creative methods of funding for outcomes beyond funding for services.
- Policy makers are asking for outcome data systems for tracking and improving quality of life outcomes.

The Institute's training and technical assistance activities touch thousands of Hoosiers, conducting more than 715 training events involving more than 80,100 people during 2013-14. The Institute provided nearly 7,900 hours of training and technical assistance to schools, community agencies, and government agencies and its website has nearly 4,000 web pages and receives 3,000 visits a day, and more than 1 million visits a year.

The Institute's scholarly and knowledge translation publications demonstrate its research in these areas. The pre-service and in-service education and coursework, and graduate student mentoring, including more than 1,218 student credit hours in teaching graduate and undergraduate courses, show the Institute's education role in Indiana and at Indiana University. Finally, participation in policy work committees and implementation with government and state leaders in education and community demonstrates the Institute's state service.

#### **Recent Accomplishments and New Initiatives 2014:**

Recently the Institute has established and is pursuing needed and innovative leadership in several ways, including:

- A quality review system of Indiana's First Steps Early Intervention Program for infants and children with disabilities.
- The Indiana Teacher Appraisal and Support System – a way to evaluate the effectiveness of all teachers related to improving student outcomes.
- The creation of Positive Behavior Intervention and Supports in schools for students with autism and intellectual or developmental disabilities.
- Establishing post-secondary education opportunities for students with intellectual disabilities in institutions of higher education in Indiana.
- The creation of Autism Education Training Teams in 13 school districts in Indiana, adding to the 400 teams statewide.

The primary beneficiaries of the services and work of the Institute include multiple divisions in Family and Social Services Administration, Indiana Department of Education, and State Board of Health. In addition, it serves dozens of community organizations including local public libraries, independent living centers, and non-profit providers of services to adults with intellectual and developmental disabilities. The Institute also serves more than a dozen other Institutions of Higher Education in Indiana including post-secondary education for students with intellectual and developmental disabilities and serves numerous Indiana school districts in nearly every county. Finally, the Indiana Institute on Disability and Community addresses issues of concern to the Legislative Commission on Developmental Disabilities and the Legislative Commission on Autism.

**FY 2015–17 Operating Appropriation Request:** We specifically ask for restoration of the funding experienced in the last nine years in order to:

- Respond more fully to the increasing requests for assistance from families and practitioners related to autism;
- Respond to the new needs of schools related to special education and educational reform;

- Improve on our aging technology infrastructure;
- Resume updating our library and dissemination functions;
- Restore our Collaborative Work Lab; and
- Re-establish former training and technical assistance functions related to early childhood and disability.

This request is for a 2.5% increase in appropriation for year one of the biennium (no increase in year two) in order to sustain and extend services to Indiana in intellectual and developmental disabilities and including the rapidly expanded needs in autism.

**FY 2015-17 Operating Appropriation Request:** 2.5% increase in funding is requested for FY 2016.

## INDIANA GEOLOGICAL SURVEY – FY 2015-2017 APPROPRIATIONS REQUEST

**Origins and Purpose of the Program:** The mission of the Indiana Geological Survey (IGS) is to provide unbiased, authoritative, and reliable geologic information to the state's citizens. The IGS generates and disseminates information about the energy, mineral, and water resources of Indiana, as well as promoting their sustainable use. To accomplish this mission, the Indiana Geological Survey engages in:

- Focused research initiatives and cooperative investigations with governmental agencies, municipalities, businesses and industries, and educational organizations;
- Geologic sample and data collection, archived for continued and future reference; and
- Dissemination of information in many forms, including published research, print and digital maps, reports, databases, and educational outreach programs.

These activities fulfill a crucial part of the public service mission of Indiana University by addressing Indiana's need for geologic data in light of complex and evolving economic and societal needs. Moreover, it advises, mentors, and employs students to prepare them to be the next generation of earth scientists.

**How the Program Serves Indiana:** The work of the IGS serves Indiana's citizens directly or indirectly, for example, by contributing to the orderly development of the state's mineral and energy resources, by providing answers to environmental questions, or via educational programs that reach all age groups of Hoosiers. Businesses, municipalities, and governmental agencies receive geologic information vital to their operations. These groups include land and minerals owners; coal, petroleum, aggregate and building-stone industries; city and county administrators and various Indiana governmental agencies, including the Departments of Natural Resources, Environmental Management, Homeland Security, and Transportation; the Board of Health; and State Chemist. Information requests from the general public are handled personally with reference to available maps and reports.

Outreach efforts include assisting with IU's undergraduate and graduate instruction and advising, the Mini University program, Indiana Master Naturalist Program, and various events that occur throughout the year, such as Hoosier Association of Science Teachers, Science Olympiad, Indiana GIS Conference, and Earth Science Week. As one measure of the success of IGS outreach, the average annual number of visitors to the IGS website now totals nearly 300,000, where these individuals download approximately one million page views of information.

**Accomplishments FY 2013–2015 Biennium:** Among its many and diverse activities, the following provides a sample of the range and depth of IGS efforts:

- The IGS initiated the Indiana Shallow Geothermal Monitoring Network, a test bed for facilitating the optimization of geothermal heat pumps in the Midwest. Shallow geothermal energy represents a renewable resource that can be further developed via ground-source heat pumps. The monitoring network provides in-place measurements of shallow-earth geothermal characteristics. These data reduce costs by allowing designers and installers to make decisions about construction technologies using the specific thermal properties of the geologic materials.
- In collaboration with the Indiana Department of Homeland Security, the IGS developed the Quake Cottage Program. Using an earthquake simulator to provide a realistic, yet safe,

experience, Hoosiers were exposed to the shaking felt during earthquakes having magnitudes of 3.0 to 7.0. This experience also included instruction on the science of earthquakes and the steps necessary to prepare for such an event. In its first two years of operation, the IGS hosted 82 events statewide, and over 11,000 people came away with a heightened awareness of earthquakes.

- The IGS documented a potential high-yielding groundwater resource: approximately 172 billion gallons of untapped water in abandoned underground coal mines. In the future, this water, contained under 194,000 acres, could be used for industrial purposes or as a renewable geothermal resource.
- The IGS published a unique compilation of information concerning the long-term environmental effects of coal mining and reclamation in Indiana. It included data useful in the design and construction of mine reclamation projects, such as those undertaken by the Indiana Department of Natural Resources, Division of Reclamation.

**Program Goals for the 2015–17 Biennium:** Plans include continuing many ongoing programs of directed research and education. Among them, the following projects display the depth and variety of activities of the IGS scientists and staff:

- Development and maintenance of *IndianaMap*, one of the nation’s leading Web-based geographic information systems, providing an atlas of varied maps and databases. It consists of more than 260 layers of data, ranging from energy and mineral resources to land use, infrastructure, environment, biology, geology, and natural hazards—information essential for Indiana’s economic development.
- Continued geologic mapping of Indiana at appropriate scales, where such information will be immediately used to protect surface and groundwater from contamination, plan transportation corridors and infrastructure, identify geologic hazards, and sustainably develop the state’s mineral, energy, and water resources.
- Continued outreach in the form of K-12 and undergraduate classroom presentations, continuing education programs, short courses, and public lectures.
- Rapid and convenient dissemination of geologic information to individuals who use it in support of Indiana’s economy and workforce, accomplished by providing access to geologic samples and collections, on-site visits, and Web-accessed databases.

**FY 2015-17 Operating Appropriation Request:** A 2.5% increase in funding is requested for FY 2016.

## **THE INDIANA ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS – FY 2015-2017 APPROPRIATIONS REQUEST**

**Origins and Purpose of the Program:** The Indiana Advisory Commission on Intergovernmental Relations (IACIR) was established by the General Assembly to provide a forum for discussion and planning in light of increasing demands made on state and local governments. IC 4-23-24.2-12 names the Indiana University Center for Urban Policy and the Environment (Center) to staff and administer the Commission. The Center, as part of the IU Public Policy Institute and the School of Public and Environmental Affairs, brings to the IACIR a strong reputation for merging policy analysis research with the experience of practitioners to develop pragmatic solutions for state and local governments in Indiana.

**How the Program Serves Indiana:** Since its inception in 1995, the IACIR has undertaken numerous efforts to improve intergovernmental decision-making and to provide an ongoing forum for discussion and resolution of intergovernmental problems and concerns. The commission's work has included a periodic survey of local governments and series of studies and public forums on several important issues facing Indiana's local governments and citizens, including: annexation, the implementation of the new property tax assessment and appeals procedures, estimates of needed investments in water and wastewater infrastructure, and progress in reforming 911 funding and county level service consolidation.

### **Recent Accomplishments and New Initiatives 2014:**

Over the last two years, the IU Public Policy Institute and the IU School of Public and Environmental Affairs also have invested in the development of a system for local government fiscal benchmarks. With this new information, state policymakers, local officials and interested citizens will be able to measure the impact of state laws on local governments, compare the fiscal health of similar units, find best practices in fiscal operations, and access an evidence-based tool for research and policy discussions. The project will dovetail nicely with the new mandate to the Department of Local Government Finance to develop a system of fiscal indicators for local governments by July 1, 2015 (PL 84-2014; SEA 106 2014).

IACIR's most recent work includes the following projects begun in the first year of the current biennium (2013-14):

- Preparation for the 2014 survey of local governments
- Identification of issues/problems associated with the annexation statute and study of annexation activity since 1998
- Tracking of 911 consolidation efforts and funding

Projects for the second year of the current biennium (2014-15) will include those begun in the first year and the following efforts:

- Documenting best practices for managing the costs associated with public employee health insurance
- Expanding fiscal benchmarking for local governments to schools and special districts

As in its first 19 years, the IACIR is poised to provide research as well as serve as a discussion forum for complex issues affecting state and local government. The IACIR anticipates several initiatives during the upcoming biennium (2015-17), including:

- Providing a forum for research and discussion of current intergovernmental and local government issues, particularly those identified by the commission chair and membership;
- Researching local public safety service costs and developing best practices for creating efficiencies and cost savings (2015-2016), and developing best practices for additional local government services (2016-2017);
- Conducting the biennial survey of local governments in summer 2016 and an additional topical local government policy survey in summer 2015, potentially around local government public safety operations and costs (see best practices research above); and
- Continuing work on issues surrounding local government fiscal benchmarking and organizational reforms.

In the current and upcoming biennia, the commission and its staff remain available to complete work assigned by the Indiana General Assembly and the Legislative Council. In years past, the commission completed an extensive study on annexation requested by the Legislative Council, and more recently, the commission was assigned to study local government responsibilities for 911/E-911 services. Additional appropriations may be needed if the nature or volume of assignments exceeds the commission's current appropriation.

**FY 2015-17 Operating Appropriation Request:** 2.5% increase in funding is requested for FY 2016.

## IU NEUROSURGERY SPINAL CORD AND HEAD INJURY RESEARCH CENTER - FY 2015-2017 APPROPRIATIONS REQUEST

**Origins and Purpose of the Program:** The Spinal Cord and Head Injury Research Center, administered by the Department of Neurological Surgery of the IU School of Medicine, created in 1999 with an appropriation from the State of Indiana. The program collaborates with the Purdue Veterinary School Center for Paralysis Research which also received the same appropriation. The two Centers have actually expanded their ongoing collaborations in recent years with the addition of new researchers and projects.

**How the Program Serves Indiana:** The program supports basic, translational, and clinical research programs in spinal cord and head injury which advances knowledge of the fundamental mechanisms of injury and recovery as well as pointing the way toward new therapeutic and recovery strategies for Indiana citizens (and their families) who have suffered traumatic brain and/or spinal cord injury. With approximately 20,000 documented traumatic injuries occurring in Indiana per year, new approaches to prevention, mitigation, and rehabilitation discovered through research efforts of the program are critical. Furthermore, the IU School of Medicine (IUSM), with its reputation as a national center of excellence for brain injury and concussion research and treatment and as the only academic medical center in the state, is vital to the health of its citizens.

**Accomplishments during FY 2013-2015:** Major program accomplishments include:

- **Infrastructure and Leadership:** Indiana University Health (IUH) in partnership with Indiana University (IU) has completed a groundbreaking new Neuroscience Center adjacent to Methodist Hospital in Indianapolis. This center is a contiguous two building complex housing outpatient clinics and faculty for the Departments of Neurology, Neurological Surgery, Psychiatry, Otolaryngology, Radiology, and Physical Medicine & Rehabilitation (Goodman Hall) and a state-of-the-art basic laboratory building (Neurosciences Research Building) with novel design features specifically designed for neurotrauma research. **Nicholas Barbaro, MD**, the Chair of the Department of Neurological Surgery, serves as Medical Director of the new IUH/IU Neuroscience Center. **Gerry Oxford, PhD**, Director of the Stark Neurosciences Research Institute, also now serves as Research Director for the new Neurosciences Research Building. The IU Spinal Cord and Brain Injury Research Group, headed by **Xiao-Ming Xu, MD, PhD**, Hulman Research Chair of Neurological Surgery, leads basic research efforts in neurotrauma. Over this biennium, the group has grown to 16 investigators plus several fellows and graduate students and has published over 60 peer-reviewed research articles. Finally, **Tom McAllister, MD** was recently recruited from Dartmouth Medical School to be the new chair of the IUSM Department of Psychiatry, and is an international expert in research and clinical treatment of concussion, further strengthening our research portfolio.
- **Clinical Program Update:** **Scott Shapiro, MD** led a state-funded pilot human trial of the Oscillating Field Stimulator in complete spinal cord injury in collaboration with Dr. Richard Borgens of Purdue University. The trial was successful, published, and the technology commercialized. The fund will support a Phase II case controlled study of acute human complete spinal cord injury. **Richard (Ben) Rodgers, MD** in Neurological Surgery, directs a



research effort in TBI involving advanced imaging and biomarker discovery in partnership with **Andy Saykin, PsyD** in Radiology using neurotrauma patients seen at IUH sites throughout the state. **Eric Horn, MD, PhD** and Rodgers also advanced a clinical study of the efficacy of progesterone in spinal cord injury.

- **Return on Investment:** The state support plays a critical role in building and expanding this program through associated core facilities and personnel which are leveraged for extramural support. To this end, the investigators in the program have secured \$3.4M in annual extramural funding from the NIH. Furthermore, Dr. McAllister was recently awarded a \$30M grant from the Department of Defense and the NCAA to lead a multi-institutional study of concussion mechanisms, including advanced imaging and molecular genetics.

**Program Goals for the Next Biennium:** Planned initiatives and goal include:

- **Basic and Translational Science:** Maintenance of critical core facilities utilized by all investigators in the center. Current cores include a Surgical Core for developing animal models of nervous system injury and a Behavioral Core providing assessments of motor and sensory function to gauge the extent of functional recovery following experimental therapies for central nervous system injuries. Support will include personnel, supplies, and salary support for investigators directing these cores.
- **Clinical Research Program:** Dr. Rodgers will continue to lead the clinical research initiative that seeks to gather functional, neurochemical, imaging, and genomic data from all neurotrauma patients seen by the Goodman-Campbell neurosurgical practice of IU Health. This initiative will provide both data and coordinated access to clinical researchers throughout Indiana and, in particular, the IU Health network of hospitals. Research involving this emerging dataset will be coordinated with the basic science group to focus on the most promising avenues for therapeutic discovery in human neurotrauma.
- **Education:** Our goal is to increase the number of IU School of Medicine students and resident trainees involved in research on brain and spinal cord injury. A recently authorized increase in the number of neurosurgical residents in the program reflects the strong clinical and educational environment provided in the IU Health system. In addition, a relatively large number of IU School of Medicine students enter the field of neurosurgery each year. All of these trainees are encouraged to work in research laboratories.

**FY 2015-17 Operating Appropriation Request:** A quality improvement funding increase of 2.5% is requested to implement two additional cores (see attached budget), an *In Vivo Electrophysiology Core* and a research grade *Histology Core*. These new cores will facilitate detailed assessment of recovery of neurological activity and accelerate the assessment of brain injury and recovery from autopsy specimens.

## **I-LIGHT - FY 2015-2017 APPROPRIATIONS REQUEST**

**Origins and Purpose of the Program:** I-Light is codified in IC 8-1-32.7-3. The State of Indiana initially built the I-Light fiber network to connect Indiana University Bloomington, Purdue University West Lafayette, and Indiana-Purdue University Indianapolis. Since that time, the network has proven its value in helping to grow research and education funding through high performance computing, competitive research grant success in Life Sciences and Engineering, connections to Internet2, NOAA, National Lambda Rail, and favorable economics with the Indiana GigaPoP for the State to efficiently pool network traffic. Today, all but two Indiana higher education institutions (who have chosen not to participate) are connected to I-Light. Connected institutions have access to the same resources at the same pricing structure as every other institution; the playing field is level in this regard.

**How the Program Serves Indiana:** I-Light is a dedicated high performance data network which supports advanced applications, access to national and international research resources and is operated solely for the good of its membership. Members use I-Light to directly connect to other members for research or foster academic collaboration. Members have also used I-Light to collaborate with peer institutions nationally and internationally while partnering on federally funded research projects.

I-Light is limited by state statute to support only higher education, related research and state government. Connected locations include:

### **Higher Education Connected Sites:**

Anderson University  
Ball State University  
Bethel College  
Butler University  
Calumet College of St. Joe  
DePauw University  
Earlham College  
Franklin College  
Goshen College  
Grace College  
Hanover College  
Holy Cross College  
Huntington University  
Indiana State University  
Indiana Institute of Technology  
Indiana University  
Indiana Wesleyan University  
Ivy Tech Community College  
Manchester College

Manchester School of Pharmacy  
Marian College  
Oakland City University  
Purdue University  
Rose-Hulman Institute of Technology  
St. Joseph's College  
Saint Mary's College  
Saint-Mary-Of-The-Woods College  
Taylor University  
Trine University  
University of Evansville  
University of Indianapolis  
University of Notre Dame  
University of Southern Indiana  
University of St. Francis  
Valparaiso University  
Vincennes University  
Wabash College

**State Agency Sites**

IOT – 2 10Gbps Waves  
ACS Clark County – 100Mbps  
DCS Clark County – 100Mbps  
DCS St. Joseph County – 100Mbps  
DCS Vanderburgh #1 – 100Mbps  
DCS Vanderburgh #2 – 100Mbps  
DCS Vanderburgh #3 – 100Mbps  
DCS Lake County – 100Mbps  
DCS Monroe County – 100Mbps  
DFR LaPorte – 100Mbps  
DMH Evansville Children's Psychiatric Hospital – 100Mbps  
DMH Evansville State Hospital – 100Mbps  
DMH Madison State Hospital – 100Mbps  
DMH Richmond State Hospital – 100Mbps  
FSSA DFR Tippecanoe – 100Mbps  
INDOT Vincennes – 100Mbps  
INDOT Seymour – 100Mbps  
Service Center #1 Merrillville – 250Mbps

Higher Education needs for high performance network resources are different than those available by common carriers. The need for specialized end to end technologies such as multi-cast, IPV6, PerfSONAR test facilities and Software Defined Networks are not commonly available from the

commercial sector. As more institutions vie for federal research funding having an advanced network is a requirement to remain competitive.

Membership institutions have commented that not having I-Light services available to their campus would be a competitive disadvantage. Conservative estimates show the initial I-Light network connecting Indiana University, Purdue and IUPUI has directly contributed to over \$250M in grant activity. A continuing and active goal of I-Light is to have more institutions participate in grant opportunities. We know this improves the educational opportunities for students and faculty and draws talented individuals to Indiana to study, teach and work.

**C. Accomplishments FY 2013-15:** Initiatives for the current biennium include:

- I-Light has completed a renewal of a long term lease for 1,800 miles of optical fiber used to support the backbone. This 20 year lease, which was paid in full at the time of signing, will allow I-Light to focus on extending more capacity to current members, and moving member institutions directly onto the fiber backbone and away from leased infrastructure. I-Light is also planning to increase backbone and external provider connections to 100Gbps in mid-2015.
- I-Light is working with Internet2 to deliver a set of services called Net+ services. These are commercial services purchased via the Internet2 consortium of which I-Light is a member. Net+ includes services in 5 main categories:
  - Infrastructure Platform and System Security as a Service
  - Software as a Service: Academic, Research, and Administrative
  - Video, Voice, and Collaborations as a Service
  - Trust and Identity: Research and Scholarly Identity Services (including InCommon)
  - Digital Content for Research and Education
- I-Light continually works with private sector companies to leverage their work and infrastructure to improve the connectivity of colleges and universities. We are currently in conversations with several telecom vendors to bring fiber to campuses like Wabash College and Rose-Hulman's satellite campus. I-Light also is continually working with the private sector to provide diverse last mile fiber paths to campus for business continuity.

**D. Goals for the FY 2015-17 Biennium:** Planned new initiatives and service goals include:

- New initiatives
  - Turn-up new fiber link between New Albany and Evansville
  - Optical hardware refresh – 100G
  - Collaborating with Kentucky Regional Optical Network (KYRON) in Louisville
  - Evaluate I-Light POP redundancy
  - Delivery of Internet2 Net+ Services to I-Light Members

- Goals for number of units of service
  - Move more circuit based institutions directly to the I-Light fiber backbone
  - Improve network uptime and reliability
  - Assist more institutions as they apply for grants and contracts which rely on I-Light for stable and cost effective data transport

**FY 2015-17 Operating Appropriation Request:** A 2.5% increase in funding is requested for FY 2016.

## INDIANA GIGAPOP – FY 2015-2017 APPROPRIATIONS REQUEST

**Origins and Purpose of the Program:** With support from the State of Indiana, the Indiana GigaPoP was created in 1999 by Indiana University and Purdue University to support the growth, access and connectivity of Indiana institutions to national research and education networks and to other universities in Indiana and across the country. The available resources have expanded to include direct access to international research networks, federal science networks supported by the Department of Energy, NOAA, and to every state education network in the US.

The Indiana GigaPoP maintains a physical connection to the largest research and education institutions in the US, the Internet2 Network, at their node in Indianapolis utilizing the I-Light fiber infrastructure. This configuration provides direct access to the Internet2 network and, for qualifying participant institutions, access to multiple Commodity Internet Service providers. With multiple locations in Indianapolis, including the Indianapolis carrier facilities in the Henry St. area, the Indiana GigaPoP is easily accessible via multiple commercial carriers.

**How the Program Serves Indiana:** Not only does the Indiana GigaPoP support access to research networks for the Indiana's large research universities, it does so for every education institution in Indiana. The smallest private college has essentially the same access to national and international networking resources as Purdue or Indiana University. These rates are also not geographic dependent - every school pays the same rate regardless of their location in Indiana.

In addition, the Indiana GigaPoP provides extremely cost effective access to commodity Internet services. As a member of the largest national organization of regional network operators, the GigaPoP has direct access to group purchase pricing. Direct connectivity to local service providers in Indianapolis provides redundant services for all users.

Connecting to the national research networks and the community they support allows Indiana higher education institutions to be competitive in pursuing grant and other funding opportunities. There is a direct correlation between network capacity and the ability to successfully apply for certain funding opportunities. The Indiana GigaPoP recognizes this and was the first in the nation to build and operate a 100Gbps state network connection to the national research infrastructure. The Monon100 connection operates today for the benefit of every Indiana institution.

**Accomplishments FY 2013-15:** The following new initiatives are being implemented:

- In 2013, the Indiana GigaPoP launched the Monon100 project, a new 100 Gigabits per second (Gbps) link from Indianapolis to the Internet2 network. This was the first 100G connection to Internet2, and provided a 10x performance increase, available for all of the Indiana GigaPoP's connected institutions, including IU, Purdue, Notre Dame, NCAA, and all I-Light connected universities.

- In the last year, Indiana GigaPoP engineers also helped several of the state's PBS stations, providing expert network consulting help so that they could take advantage of the state's networking options.
- Through increased use of new cost-free peering agreements with Google, Netflix, and Akamai, along with improved private commercial internet agreements, the GigaPoP oversaw a 65% drop in commodity internet pricing for all of its members.

**Goals for the FY 2015-17 Biennium:** New initiatives anticipated for the upcoming biennium include:

- To improve reliability, cost, and performance of resources for Indiana universities, the Indiana GigaPoP will be exploring additional fiber paths from South Bend into Chicago. This will open up reliable access to additional low cost commercial internet providers and allow for more collaboration with other schools in the Big Ten, who have networking into Chicago.
- We will also explore new additional connections with like institutions in Ohio and Kentucky. These new connections would allow for additional collaboration or sharing of resources.
- Indiana GigaPoP Engineers will continue to offer no-cost network design consultation for schools in the state to help them with high performance networking.
- Additional 10% drop in commercial internet pricing.
- Growth of 30% in bandwidth usage.

**FY 2015-17 Operating Appropriation Request:** A 2.5% increase in funding is requested for FY 2016.

## OPTOMETRY BOARD EDUCATION FUND - FY 2015-2017 APPROPRIATIONS REQUEST

**Origins and Purpose of the Program:** The Acts of 1951 (Indiana Code 25-24-2-3) and as amended by Acts in 1977 and 1981, added \$34.00 to the biennial licensure fee paid by Indiana optometrists. These fees are to be paid to the Indiana professional licensing agency in even-numbered years. Indiana optometrists submit said registration renewal fees, which are collected by the Indiana Optometry Board and deposited in an optometry school account of the state general fund. All such fees deposited by April 1 each year are to be paid to Indiana University by the following July 1st and are to be used for the “advancement of optometrical research and the maintenance and support of the department in which the science of optometry is taught at the university.” An appropriation sufficient to pay this amount is authorized by law. This budget is merely to state the expected amount of this appropriation.

Licensure fees are collected biennially with the next renewal year in FY2015-16 resulting in an estimated appropriation of \$48,246. FY 2016-17 will be the next “off” year in which only a few licensure fees are collected. The estimate of \$1,500 for the “off” year is to cover the expected collections.

**How the Program Serves Indiana:** This base appropriation is an important factor in the institution’s ongoing delivery of high-quality services and education. Higher education in general must address a highly competitive market for talented faculty, the need for state-of-the-art research, clinical and educational equipment, and the costs of other unfunded needs for the IU School of Optometry. Our request follows the instructions of the Commission for Higher Education and the State Budget Agency and, therefore, makes no specific request; it assumes that adequate funding will be distributed through the fees paid to the Indiana professional licensing agency as required under Indiana Code 25-24-2-3.

**FY 2015-17 Operating Appropriations Request:** \$48,246 in 2015-16; \$1,500 in 2016-17. (No change from 2013-15 Request)



## **IHETS/STATE VIDEO STREAMING SERVICE – FY 2015-2017 APPROPRIATIONS REQUEST**

**Origins and Purpose of the Program:** The purpose of the IHETS/State Streaming program is to allow the citizens of the State of Indiana to have access to public proceedings of the Indiana General Assembly, Indiana judiciaries, including the Tax Court, the Court of Appeals, the Supreme Court, and the State Board of Education. In 2010 the responsibility to support the video streaming service was transferred from IHETS to Indiana University under the administration of the I-Light Network. Former IHETS employees were hired by IU to provide continuity of service and maintain staff relationships which are important to users of the service.

**How the Program Serves Indiana:** The State Video Streaming Services appropriation supports the cost of the support staff and ongoing video streaming set up, production, video storage services, and closed captioning service. Users of the service include the State of Indiana House, Senate, Supreme Court, Tax Court, Court of Appeals, and the Office of the Governor, in support of educational and civic access and engagement to Hoosiers statewide.

The IHETS/State Streaming service is essential to the state agencies that use our service by providing access to the citizens of the State of Indiana to the various agencies and their activities through use of the streaming video and archive service. In addition to video on demand and live streaming, closed captioning is a newly deployed additional service that allows hearing impaired Hoosiers to have access to the agencies' proceedings.

**Accomplishments FY 2013-15:** During the current biennium, the program has achieved the following:

- Deployed closed captioning service that ensures compliance with the 21<sup>st</sup> Century Communications and Video Accessibility Act of 2010.
- Upgrade of the network connectivity to the streaming servers to 10 Gigabits per second (Gbps).
- In the last twelve months, IHETS/State Streaming Services have recorded and archived 345 MP4 files and provided closed captioning for 60% of meetings for the Indiana House and Senate.
- Streaming services were extended to the State Board of Education.

**Goals for the FY 2015-17 Biennium:** The program anticipated pursuing the following new initiatives:

- The IHETS/State Streaming service has the new initiative to deploy closed captioning to all the agencies that utilize our service which include the Indiana House and Senate, State Board of Education, State Budget Committee, Tax Court, Supreme Court, and Court of Appeals.
- Upgrade the streaming server's connectivity to 10Gbps to ensure proper bandwidth availability and complete deployment of the closed captioning service for the remaining agencies that use the streaming service.
- The goal for the number of units served is 400, based on anticipated increased utilization from agencies served.

**FY 2015-17 Operating Appropriation Request:** A 2.5% increase in funding is requested for FY 2016.

## INDIANA DUAL CREDIT – FY 2015-2017 APPROPRIATION REQUEST

**Origins and Purpose of the Program:** Indiana Code requires public secondary schools to offer at least two (2) dual credit courses (20-30-10), and Indiana Code authorizes Indiana University to establish dual credit programs through the *eligible institutions* and *program* parameters outlined in I.C. 21-43-1-2.5 through 21-43-1-10.

The Advance College Project (ACP) has delivered dual credit courses since 1982 through collaboration between Indiana University and high schools throughout Indiana. The program selects and trains eligible teachers to provide regular IU courses in the high school setting. The ACP program offers 29 IU courses in 15 academic departments.

There are currently more than 170 secondary schools (public and non-public) offering one or more ACP courses in their high school curriculum.

**How the Program Serves Indiana:** The appropriation supports direct instruction of college courses to high school students prior to matriculation on a postsecondary campus. This activity includes: instructor selection, training and oversight; curriculum development; student assessment, recruitment, enrollment, transcription; and necessary administrative support. This activity is beneficial to students and families. Students may use dual credit courses to satisfy Academic Honors Diploma (AHD) requirements (the AHD is the minimum diploma level for selective colleges and universities). Additionally, students may accumulate college credits prior to matriculation, at a fraction of the regular tuition cost, which represents both real savings in costs per credit, but potential savings if a shorter time-to-degree is realized. Lastly, students benefit significantly by early introduction to college rigor and expectations.

This activity is also beneficial to secondary schools because it allows schools to meet state curricular obligations (two course requirement; honors diploma requirements) as well as increases a school's letter grade under the A-F accountability system. Furthermore, this activity allows schools to better align their upper division curriculum with postsecondary expectations. Dual credit courses are a component of state and federal initiatives involving college and career readiness, and are a considerable part of the state effort to increase degree completion (both on-time and overall percent of population).

**Accomplishments FY 2013-15:** A new dual credit registration system was developed and implemented in 2013-14 which should allow enrollment to continue to scale upward without significant increases in staff FTE.

Development of online dual credit courses is occurring in 2013-15 – these courses should allow for greater delivery of dual credits to rural and underserved school districts.

A dual credit based version of the Statewide Transfer General Education Core (STGEC) has been developed and will allow for greater numbers of students to utilize Indiana University in order to complete the STGEC – which is portable among all public postsecondary institutions. Research is currently underway examining: participation in IU and other institution dual credit courses; subsequent IU enrollment (all IU campuses); and student success outcomes (impact on first term GPA, transfer, persistence, and graduation).

**Program Goals for the FY 2015-17 Biennium:** Continued expansion of online dual credit offerings, in tandem with delivery through the Indiana University High School, should significantly expand the number of students reached.

## INDIANA UNIVERSITY SCHOOL OF MEDICINE CENTERS FOR MEDICAL EDUCATION EXPANSION

**Origins and Purpose of the Program:** A 2006 physician workforce study by the IU School of Medicine, in collaboration with the State of Indiana, projected that a shortage of physicians would occur in many parts of Indiana by 2020 as many baby-boomer doctors reached retirement age. At the same time, more demand for medical services will be tied to the aging of Indiana's population. To meet this physician shortage, the Indiana University School of Medicine proposed an initiative to expand its medical student enrollment by 30 percent, from 280 per class to 364 per class beginning in fall, 2007 and completing the expansion by fall, 2016.

During the 2009 legislative session, IU requested and received an appropriation of \$5 million annually. However, the state was not able to release any funds due to the impact of the "Great Recession." IU, given its commitment to providing an adequate supply of doctors, secured one-time private funds to begin the initiative as originally planned. With the improvement in the state's finances, budgets enacted since 2011 have included \$3 million per year in state funds under a special line item.

**How the Program Serves Indiana:** Under the plan, all additional medical students are enrolled at the School's eight regional Centers for Medical Education (CME) and the Centers are expanding from two-year to full four-year programs. The CMEs are located at:

- University of Southern Indiana
- Indiana Purdue University Fort Wayne
- Indiana University Northwest
- Indiana University Bloomington (not listed in the budget bill)
- Purdue University West Lafayette
- Ball State University
- University of Notre Dame
- Indiana State University

A major benefit from expanding enrollment at the CMEs is that medical school graduates who attend the CMEs have demonstrated an increased likelihood of practicing primary care and are more likely to begin practice in Indiana after their education and training is completed. By using the statewide system of CMEs, IU, in partnership with the state, will be able to increase the production of physicians in a much more cost effective manner than many other states, which started new medical schools or campuses.

### Status of the Initiative:

From a class size of 280 in 2006, IUSM is phasing in the addition of 84 students per class with completion of the full expansion anticipated by fall, 2016:

Starting Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Students	14	28	42	42	48	55	64	72	78	84
Total Class Size	294	308	322	322	328	335	344	352	358	364

**FY 2015-17 Operating Appropriations Request:** With completion of the initiative during the upcoming biennium, IU requests discontinuation of the special line item and re-allocation of the existing \$3 million to each of the existing Centers for Medical Education appropriations. Specifically, IU proposes that the \$3 million appropriation be reallocated equally to each of the eight Centers in the amount of \$375,000, the costs associated with medical school expansion at the CMEs being financed through incremental tuition dollars.

## CLINICAL AND TRANSLATIONAL SCIENCE INSTITUTE – FY 2015-2017 APPROPRIATIONS REQUEST

**Origins and Purpose of the Program:** The Indiana Clinical and Translational Sciences Institute (Indiana CTSI), established in 2008 with an initial \$25 million, five-year grant from the National Institutes of Health (NIH), is a statewide institute created to significantly enhance and coordinate the biomedical research infrastructure in Indiana, providing a *statewide laboratory to experiment with innovative methods aimed at transforming life sciences research*. The Indiana CTSI is led by the major health science schools at Indiana University (IU), with its two research campuses (Indianapolis – IUPUI; Bloomington - IUB), Purdue University (PU), and the University of Notre Dame (ND). The CTSI builds the ideal research environment and effective platforms to conduct innovative research by bringing together all three major research universities (Indiana, Purdue, and Notre Dame), the state’s key health care provider partners, private sector and corporate entities, and local and state agencies.

After six years of operations, the Indiana CTSI now stands at the threshold of realizing the full potential of our state’s outstanding academic and industrial institutions. The strong track record over the last 5 years has just been recognized nationally as the National Institutes of Health has awarded IU one of the highest merit scores and \$30 million in renewed federal funding for another five years.

However, to be at the forefront of this field, and to be competitive with highly successful programs in biotechnology-dense cities such as Stanford (San Francisco), Harvard (Boston), and Columbia (New York), the Indiana CTSI needs to be constantly innovating and creating novel programs and methodologies to move academic discoveries into new medical treatments and products, leading to improved health care and job creation. Continued funding from the state will assist the Indiana CTSI with creation of new programs that will differentiate it from the other academic biomedical institutes across the country, and with eventual renewal of NIH funds.

**How the Program Serves Indiana:** The mission of the Indiana CTSI is to provide an integrated home for clinical and translational research that creates a statewide infrastructure to provide resources, services, and training to conduct research dedicated to improving the health and economy of Indiana. The Indiana CTSI speeds the translation of new laboratory discoveries into new health care practices and therapies, resulting in better medical outcomes for patients. The CTSI is also engaged in economic development through its work with small start-up companies, some of which were created by Indiana CTSI-supported scientists.

**Accomplishments FY 2013–2015 Biennium:** With funds appropriated in the FY 2013-15 biennial budget, the CTSI developed two new programs and expanded a third highly successful program to broader groups of academic inventors across the state who would like to commercialize their discoveries. These programs are:

1. Molecular Therapeutics Program - MTP (new) - This program created a distributed network of medicinal chemistry development infrastructure to provide project mapping and medicinal chemistry assistance to investigators.
2. Program to connect Relevant Industry Mentors to the Entrepreneur-Researcher (PRIMER) (new) - This program created a network of mentors who are experienced in biomedical industry and biotechnology startups to provide relevant company development assistance to investigators who

would like to commercialize their discoveries. The mentor network was developed with Indiana Health Industry Forum (IHIF) and the Tech Transfer Office (TTO) of the CTSI-partner universities.

3. Project Development Teams (PDTs) (Expansion to Purdue, IUB and Notre Dame Campuses) - The PDT program functions in part as a consultation service, in part a mentoring group, and provides the following services:

- consultation with experienced advisors
- identifying and rapidly accessing CTSI resources
- facilitating collaborations between basic and clinical scientists
- providing ongoing project management to reach their stated goals

**Program Goals for the 2015–17 Biennium:** For the next biennium, we would like to continue the above three programs and develop one new program, the *Academic Research Commercialization Hub for Indiana (ARCHI)*. We will develop ARCHI within the Indiana CTSI to move discoveries from its three research-intensive universities (Indiana, Purdue and Notre Dame) into products. While such strategies have successfully shaped a regional economic strength, Indiana has additional unrealized capacity for translating basic life science research into the marketplace. For example, over the past 3 years, Indiana University, Purdue University, and University of Notre Dame reported 388, 294, and 57 healthcare invention disclosures, respectively, while licensing 68, 33, and 15 technologies in the same period. With patent applications filed on approximately 50% of the disclosures, 300 available technologies remain between the 3 institutions and provide a strong pool of high potential technologies of strategic interest to commercialize. Currently, there is a range of 4-10 year delay between discovery and commercialization which we expect this HUB to address and improve.

Through a strategically conceived ARCHI that exports entrepreneurial culture across the academic partners, we will pursue a **long-term goal** to build public-private partnerships that increase early access to technology development and commercialization resources, funding, and training and accelerate the translation of biomedical innovations into commercial products that improve patient health care. We will address core competencies in our entrepreneurial pipeline through **short-term goals** to: 1) incorporate commercialization strategies early in the research process in addition to planning a commercialization path when an innovation is close to marketability; 2) more systematically analyze health care technology market needs at key “touch points” for validation and input; and 3) export across the partnership the well-formulated ‘Foundry’ process that results in a defined value proposition for new ideas and concepts, market opportunities and initial pathways to take an idea from innovation to development to actualization and equips a more diverse pool of biomedical innovators to evaluate research and accelerate the pathway to commercialization. This strengthened entrepreneurial ecosystem will significantly accelerate the pace of development for high-priority, early-stage technologies and increase the probability of translation success into commercial biomedical products.



**FY 2015-17 Operating Appropriation Request:** Indiana University requests that the \$2.5 million appropriation in the FY 2013-15 biennial budget be transferred as a set aside from the Indiana Economic Development Corporation appropriation to a special line item for the CTSI under Indiana University.

## **New Special Line Item Request: Regional Campus Request for Resources to Support Student Academic Success**

**Introduction:** Indiana University requests \$5 million in additional financial support for our regional campuses, beginning with the 2015-2017 biennium. These funds will be used for shared student academic success priorities that are integral to the regional campus missions and to the strategic educational goals of the state of Indiana.

The Indiana Commission for Higher Education (ICHE) outlined the following “Expectations of Regional Campuses within Indiana’s System of Higher Education” in 2013:

- Degree Completion: Regional Campuses should significantly improve completion rates to ensure that students’ investments and the state’s investment are effective and result in high quality academic credentials.
- Affordability: As access institutions, Regional Campuses should place affordability at the forefront of decisions around resource allocation.
- Synergy with Indiana’s Two-Year Sector: The success of Regional Campuses will depend on collaborative work with the two-year sector. Community colleges and Regional Campuses should better differentiate institutional missions, integrate services, improve degree completion, and increase the effectiveness and efficiency of the campuses.
- Meeting the Needs of the Economy: Regional Campuses should continue to put local economies at the forefront of their success agenda. Regional campuses need to be good “stewards of place”—supporting education, business, arts and culture, and the health of the regions we serve. Regional Campuses should expand efforts to partner with local employers to provide college-to-work pathways.

**Proposal:** In response to this charge from the ICHE, Indiana University requests approval of a new \$5 million special appropriation to support the priorities outlined in the section above. It is students at regional comprehensive campuses who must successfully complete degrees in order to meet national and state goals for degree attainment.

Indiana University has made major investments in *financial literacy* training for students with demonstrated positive initial results - students are borrowing less for college costs. The IU regional campuses provide a *very affordable education* with some of the lowest tuition rates in the state. With these funds, we must address a *student body that is “expensive”* - the mission of regional campuses requires engaging a very diverse range of students with variable levels of prior academic preparation and often complicated life circumstances that influence their goal of degree attainment.

Academic success for regional campus students requires *personnel-intensive services and interventions*, not only for the first-year and full-time students, but for transfer students, first-

generation students, student veterans, and adult learners as well. Even in small numbers and at modest compensation, staffing is expensive, especially in the context of already tight regional campus budgets. The online resources and tools for students that IU is implementing require person-to-person training, mediation, and follow-up to achieve maximum benefit for students.

The regional campuses propose to *work collaboratively*, building on ongoing work started under the Blueprint for Student Attainment, in order to provide programs that are tailored to the needs of each campus. The new funding will allow the campuses to *target student success priorities* that have been identified and addressed through state legislation and Indiana Commission for Higher Education initiatives:

- *Student populations* such as veterans and active military persons, 21<sup>st</sup> Century and O'Bannon Scholars, first-generation students, working adults, stop-out students, transfer students.
- *Programs focused on completion* such as Guided Pathways for Success, Co-requisite Remediation, Degree Maps, Pro-active Advising, and Fifteen to Finish.

The campuses have identified the following priorities for collaborative action:

- *Intrusive Advising and coaching* focused on veterans and active military, first-generation students, 21<sup>st</sup> Century Scholars, transfer students and stop-out students (although all students will benefit from these improved services).
- *Expanded connections between academic programs and career outcomes* through enhanced career services programming, expanded internship programs, and enriched community-based service learning.
- *Focused student success interventions* to support adult students, transfer students, veterans and active military, 21<sup>st</sup> Century students, and first-generation students. Such programs include summer bridge opportunities, leadership academies, tutoring and mentoring programs, and math and English boot camps.

Indiana University has dedicated considerable existing resources on these initiatives, including establishing a new Office of Completion and Student Success but much more will be needed to realize the level and pace of progress that the state of Indiana expects. Therefore, Indiana University is requesting additional state operating funds to meet this challenge and accelerate efforts to improve student success.

## **New Special Line Item Request: Indiana University Statewide Engagement**

**Introduction:** While traditionally a responsibility of land grant institutions, IU has accepted the challenge to be engaged in statewide efforts to foster economic development. IU's Office for Engagement, through its *Innovate Indiana initiative*, is collaborating with faculty, staff and students to engage with wide a range of businesses and governmental agencies, as well as peer universities, to enhance Indiana's economic prospects. As testament to the outstanding work being performed across the institution's eight campuses to advance statewide economic development, IU was recently awarded the prestigious designation as an *Innovation and Economic Prosperity University* by the Association of Public and Land-Grant universities.

To more effectively extend Innovate Indiana's mission of engaging strategic partners to leverage and advance IU's vast intellectual resources and expertise to enhance Indiana's economic growth and quality of life for Hoosiers, IU is requesting \$5 million in funds for a new line item. These funds will enable the university to provide innovative programming, delivered across the state's regions through IU's eight campuses utilizing faculty, students, and staff to assists Indiana companies, entrepreneurs, health care providers, and governmental units by leveraging IU's expertise and resources in information technology, informatics, and computing.

**Proposal:** This \$5 million line item will create the *Information Technology Collaborative Assistance Program (IT-CAP)* at IU, providing a new means for both private and public sector entities to benefit from IU's academic information technology organization, recognized as one of the best and largest in the nation, and its world-class capabilities and assets. Through direct engagement and consultation, IT-CAP will provide high value, affordable solutions to help its collaborative partners more effectively utilize information technology to increase efficiency, productivity, and competitiveness in an era of increased digitization and complexity.

Indiana University Information Technology Services provides IT support and services to the university community and advances high performance computing, networking, and the evolving international cyberinfrastructure. IU IT resources that may be accessed through affiliation with the proposed *IT-CAP* program include:

**Big Red II:** Indiana University is home to Big Red II, a powerful new Cray supercomputer housed in IU's state-of-the-art Data Center on the Bloomington campus. Big Red II is a community resource for Indiana University, while also playing an important role in the national cyberinfrastructure ecosystem. With a processing speed of one thousand trillion floating-point operations per second (one petaflops), 25 times faster than its predecessor, Big Red II enables vital new research to be conducted in wide ranging fields including medicine, engineering, life sciences, physical sciences, social sciences, climate research, and humanities.

Pervasive Technology Institute: IU's Pervasive Technology Institute (PTI) improves quality of life in the state of Indiana and the world through innovations and service delivery in networking and high performance computing paired with fundamental academic research. PTI encourages collaboration across its research and service centers, uniting science with applied practice to advance the university, state, and nation as a whole through education, outreach, and economic development.

School of Informatics and Computing: Founded in 2000, IU's School of Informatics and Computing (SOIC) represents the first school of its kind in the world – an innovative, interdisciplinary program that harnesses the power and possibility of technology to turn information into beneficial applied knowledge. Informatics at IU encompasses *the study and application of information technology to the arts, science and professions, and to its use in organizations and society at large*. Along with SOIC locations in Bloomington and Indianapolis, IU also offers informatics programs at IU East, IU Kokomo, IU South Bend, and IU Southeast. The SOIC Dean's Advisory Council is comprised of leading experts in technology and innovation across Indiana's industry sectors.

With programs in informatics, computer science, library science, and information science, SOIC provides talented graduates and professional expertise to a wide range of computing and information technology businesses and occupations, and places special emphasis on partnering with Indiana information technology businesses to address their unmet needs. A majority of SOIC's 3000-plus students (1900 undergraduate, 1200 graduate) will take their initial job in Indiana. The school also contributes to the state's economic development by fostering and supporting a core culture of entrepreneurship among its students, faculty and alumni.

Research Centers: IU is home to a wide array of information technology-based centers conducting leading edge research in fields such as cybersecurity, bioinformatics, and complex networks and systems:

- Center for Applied Cybersecurity Research
- Center for Bioinformatics Research
- Center for Complex Networks and Systems Research
- Center for Research in Extreme Scale Technologies
- Center for Research On Mediated Interaction
- Center for Security Informatics
- Chemical Informatics Center
- Cyberinfrastructure for Network Science Center
- Data to Insight Center
- Digital Science Center
- Rob Kling Center for Social Informatics

**Proposed Program Overview:** Similar to Purdue’s Technical Assistance Program (TAP), funding of *IT-CAP* will enable the program to:

- Develop a suite of programs and services to assist eligible Indiana businesses and government entities in the innovative use and application of their information technology resources.
- Provide specialized assistance to new and prospective entrepreneurs and small businesses as well as established companies.
- Identify the types of applicable business and government entities that can best benefit from IT-CAP services and establish eligibility requirements.
- Provide services both through direct engagement of IU subject matter experts, including students as well faculty and staff, in IT as well as access to IU’s IT cyberinfrastructure, resources, and assets.
- Provide expertise addressing the capabilities and applicability of big storage, software tools including simulation and data mining, and cybersecurity and policy.
- Provide multiple experiential learning opportunities for students under the direct guidance of faculty.
- Offer condensed instructional programming on focused topics delivered via online format, webcast, and/or videoconference.
- Utilize IU’s eight campuses, each which serves as a key hub for regional innovation by leading, convening, and facilitating economic development activities for its respective communities served, as a delivery system for services to maximize reach across the state.
- Hire dedicated IT-CAP staff to administer the program.
- Establish IT-CAP advisory council to receive direct feedback and insight from constituencies served and enhance the connectivity of the program across the state.
- Develop metrics to measure the success of the program.
- Partner with applicable state and regional economic development agencies and industry cluster organizations to reach and provide support to their constituents.



## Capital Request and Ten-Year Plan





INDIANA UNIVERSITY  
2015-17 CAPITAL REQUEST AND TEN-YEAR PLAN

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<b>Institution:</b> Indiana University-Bloomington	<b>Project:</b> Old Crescent Renovation - Phase II
<b>Biennium:</b> 2015-2017	<b>Project No:</b> A-1-15-2-02
<b>Submitted:</b> Yes	<b>Last Updated:</b> 9/5/2014 12:20 PM

#### General Project Information

Project Name/Title:	Old Crescent Renovation - Phase II	Institutional Priority:	1
Budget Agency Project No:	A-1-15-2-02	Project Type:	Major Repair and Rehabilitation
Previously Approved by General Assembly:	No	Previously Recommended by CHE:	No

#### Project Summary

Indiana University proposes to renovate three buildings (Kirkwood Hall, Ernie Pyle Hall, and Swain West) on the IUB campus. Kirkwood Hall is one of the oldest buildings on campus at 120 years (constructed in 1894), Ernie Pyle Hall was completed in 1937, and Swain West in 1940. Due to their age, all three buildings are in need of renovations, including new building systems (heating/air conditioning, electrical, plumbing, computer data, and fire suppression) and improvements to building envelopes (roof, windows, etc.), as well as accessibility upgrades. Classrooms will be refurbished with the latest technologies and seating arrangements to be as effective as possible. Swain West contains lab space for the Department of Physics that is in need of renovation to create the best and safe learning environment for students and faculty.

#### Summary of the Impact on the Educational Attainment of Students

This project focuses on Phase II of the Old Crescent (Academic Core) Renovation. This area is the traditional center of campus and contains the oldest buildings in the Indiana University system, which are included in the National Register of Historic Places. Renovating these facilities to their original intent as primarily academic buildings rather than administrative is a central component of the 2009 IUB Campus Master Plan and the 2011 Old Crescent Report. These renovations will reinvigorate the Old Crescent by bringing students back to the center of campus and connecting students with the tradition of Indiana University in historic facilities with state-of-the-art amenities.

<b>Institution:</b>	Indiana University-Bloomington	<b>Project:</b>	Old Crescent Renovation - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-1-15-2-02
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:20 PM

#### Project Size

	GSF	ASF	ASF/GSF
Project Size:	229,344	136,807	60%
Net Change in Overall Campus Space:	0	0	

#### Project Cost Summary

Total Project Cost:	\$48,500,000	Cost Per GSF/ASF:	\$211 GSF
			\$355 ASF

#### Project Funding

	Funding Amount	Funding Type	Funding Source Description
Funding Sources:	\$48,500,000	State	Bonding Authority (Acts of 1965) {IC 21-34-6}
<b>Total Funding</b>	<b>\$48,500,000</b>		

#### Annual Cost

Estimated annual change in cost of building operations based on the project:	\$0
Estimated annual repair and rehabilitation investment:	\$0

<b>Institution:</b>	Indiana University-Bloomington	<b>Project:</b>	Old Crescent Renovation - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-1-15-2-02
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:20 PM

#### Detail Description of Project

Indiana University proposes to renovate three buildings (Kirkwood Hall, Ernie Pyle Hall, and Swain West) on the IUB campus. Kirkwood Hall is one of the oldest buildings on campus at 120 years (constructed in 1894), Ernie Pyle Hall was completed in 1937, and Swain West in 1940. Due to their age, all three buildings are in need of renovations, including new building systems (heating/air conditioning, electrical, plumbing, computer data, and fire suppression) and improvements to building envelopes (roof, windows, etc.), as well as accessibility upgrades. For example, Kirkwood Hall relies on numerous window air conditioning units. This renovation will install a centralized mechanical system and eliminate these inefficient window units. Swain West contains lab space for the Department of Physics that is in need of renovation to create the best and safe learning environment for students and faculty. All three buildings will benefit from classroom refurbishment with the latest technologies and seating arrangements to be as effective as possible.

Relationship to Other Capital Improvement Projects: No other projects are dependent upon the completion of this project.

Historical Significance: This project focuses on Phase II of the Old Crescent (Academic Core) Renovation. This area is the traditional center of campus and contains the oldest buildings in the Indiana University system, which are included in the National Register of Historic Places. Kirkwood Hall is one of the oldest buildings on campus at 120 years (constructed in 1894), Ernie Pyle Hall was completed in 1937, and Swain West in 1940.

Alternatives Considered: Due to the nature of the project and the specific needs of these buildings, no alternatives have been selected.

Relationship to Long-Term Capital Plan for Indiana University: Renovating these facilities to their original intent as primarily academic buildings rather than administrative is a central component of the 2009 IUB Campus Master Plan and the 2011 Old Crescent Report. These renovations will reinvigorate the Old Crescent by bringing students back to the center of campus and connecting students with the tradition of Indiana University in historic facilities with state-of-the-art amenities.

<b>Institution:</b>	Indiana University-Bloomington	<b>Project:</b>	Old Crescent Renovation - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-1-15-2-02
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:20 PM

### Need & Purpose

Indiana University proposes to renovate three buildings (Kirkwood Hall, Ernie Pyle Hall, and Swain West) on the IUB campus. Kirkwood Hall is one of the oldest buildings on campus at 120 years (constructed in 1894), Ernie Pyle Hall was completed in 1937, and Swain West in 1940.

Due to their age, all three buildings are in need of renovations, including new building systems (heating/air conditioning, electrical, plumbing, computer data, and fire suppression) and improvements to building envelopes (roof, windows, etc.), as well as accessibility upgrades. For example, Kirkwood Hall relies on numerous window air conditioning units. This renovation will install a centralized mechanical system and eliminate these inefficient window units. Swain West contains lab space for the Department of Physics that is in need of renovation to create the best and safe learning environment for students and faculty. All three buildings will benefit from classroom refurbishment with the latest technologies and seating arrangements to be as effective as possible.

Renovating these facilities to their original intent as primarily academic buildings rather than administrative is a central component of the 2009 IUB Campus Master Plan and the 2011 Old Crescent Report. These renovations will reinvigorate the Old Crescent by bringing students back to the center of campus and connecting students with the tradition of Indiana University in historic facilities with state-of-the-art amenities.

<b>Institution:</b>	Indiana University-Bloomington	<b>Project:</b>	Old Crescent Renovation - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-1-15-2-02
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:20 PM

#### Space Utilization

This project is a renovation of existing space.

#### Comparable Projects

The IUB Old Crescent Renovation - Phase I at approximately \$152/gsf.

#### Background Materials



<b>Institution:</b> Indiana University-Bloomington	<b>Project:</b> Old Crescent Renovation - Phase II
<b>Biennium:</b> 2015-2017	<b>Project No:</b> A-1-15-2-02
<b>Submitted:</b> Yes	<b>Last Updated:</b> 9/5/2014 12:20 PM

#### Overall Space in ASF

Space Type Name	Current Space In Use	Space Under Construction	Space Planned And Funded	Subtotal Current And Future Space	Space to be Terminated	New Space In Capital Request	Net Future Space
Classroom (110 & 115)	15,741	0	0	15,741	0	0	15,741
Class Lab (210, 215, 220, 225, 230, 235)	17,734	0	0	17,734	0	0	17,734
Non-class Lab (250 & 255)	29,171	0	0	29,171	0	0	29,171
Office Facilities (300)	49,867	0	0	49,867	0	0	49,867
Study Facilities (400)	10,147	0	0	10,147	0	0	10,147
Special Use Facilities (500)	0	0	0	0	0	0	0
General Use Facilities (600)	3,239	0	0	3,239	0	0	3,239
Support Facilities (700)	205	0	0	205	0	0	205
Health Care Facilities (800)	0	0	0	0	0	0	0
Resident Facilities (900)	0	0	0	0	0	0	0
Unclassified (000)	10,703	0	0	10,703	0	0	10,703
<b>TOTAL SPACE</b>	136,807	0	0	136,807	0	0	136,807

#### Space Detail Notes

Represents asf for BL027 Swain, BL058 Kirkwood, and BL075 Ernie Pyle

<b>Institution:</b> Indiana University-Bloomington	<b>Project:</b> Old Crescent Renovation - Phase II
<b>Biennium:</b> 2015-2017	<b>Project No:</b> A-1-15-2-02
<b>Submitted:</b> Yes	<b>Last Updated:</b> 9/5/2014 12:20 PM

#### Anticipated Construction Schedule

Bid Date:	<input type="text" value="February"/>	<input type="text" value="2015"/>
Start Construction:	<input type="text" value="April"/>	<input type="text" value="2015"/>
Occupancy (End Date):	<input type="text" value="July"/>	<input type="text" value="2017"/>

#### Estimated Cost for Project

		Cost Basis	Escalation Factors	Project Cost
<b>Planning Costs</b>	Engineering	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Architectural	<input type="text" value="\$3,880,000"/>	<input type="text" value="\$0"/>	\$3,880,000
	Consulting	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
<b>Construction</b>	Structure	<input type="text" value="\$18,430,000"/>	<input type="text" value="\$0"/>	\$18,430,000
	Mechanical (HVAC, plumbing, etc.)	<input type="text" value="\$11,640,000"/>	<input type="text" value="\$0"/>	\$11,640,000
	Electrical	<input type="text" value="\$6,305,000"/>	<input type="text" value="\$0"/>	\$6,305,000
<b>Other</b>	Movable Equipment	<input type="text" value="\$1,455,000"/>	<input type="text" value="\$0"/>	\$1,455,000
	Fixed Equipment	<input type="text" value="\$2,910,000"/>	<input type="text" value="\$0"/>	\$2,910,000
	Site Development/Land Acquisition	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	<input type="text" value="Contingency, Admin &amp; Legal Fees"/>	<input type="text" value="\$3,880,000"/>	<input type="text" value="\$0"/>	\$3,880,000
<b>Total Estimated Cost</b>		<b>\$48,500,000</b>	<b>\$0</b>	<b>\$48,500,000</b>

#### Cost Detail Notes

<b>Institution:</b> Indiana University-Bloomington	<b>Project:</b> Old Crescent Renovation - Phase II
<b>Biennium:</b> 2015-2017	<b>Project No:</b> A-1-15-2-02
<b>Submitted:</b> Yes	<b>Last Updated:</b> 9/5/2014 12:20 PM

#### Annual Operating Cost/Savings

	Personnel Services	Supplies and Expenses	Total Operating Cost	Cost per GSF
Operations	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Maintenance	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Fuel	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Utilities	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Other	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
<b>Total Estimated Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0.00</b>

#### Cost Detail Notes

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### General Project Information

Project Name/Title:	IU School of Medicine Integrated Health Education Complex - Phase I	Institutional Priority:	2
Budget Agency Project No:	A-2-15-2-18	Project Type:	Major Repair and Rehabilitation
Previously Approved by General Assembly:	No	Previously Recommended by CHE:	No

#### Project Summary

<p>Indiana University proposes a renovation of the former Wishard Regenstrief Building located on the IU School of Medicine/Health Science campus. This project consists of renovating and transforming administrative and clinical space into a state-of-the art facility with new lab, classroom, and administrative space. New interior infrastructure will include energy efficient mechanical systems, upgraded building systems (electrical, plumbing, computer data, and fire suppression), and accessibility upgrades. The exterior of the building will have new energy efficient windows added and the roof will be updated. Renovation of this existing facility in its centralized location on the former Wishard campus is a more efficient use of space and resources than new construction, and will allow students and faculty to work in close proximity to other critical practice and research facilities.</p>
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#### Summary of the Impact on the Educational Attainment of Students

<p>The Integrated Health Education Complex directly supports the university's life sciences initiative, and will centrally locate students and faculty with practice opportunities at IU Health University Hospital, Eskenazi Health, Richard L. Roudebush VA Medical Center, and Riley Hospital for Children, as well as state-of-the-art research collaboration opportunities at the adjacent IU Center for Drug Discovery. This renovation will support Interprofessional Education, which encourages interaction and collaboration among students, faculty and staff in multiple programs. These programs include medicine, nursing, dentistry, optometry, social work, pharmacy, public health, and others. Team-based, problem-based, and experiential learning is encouraged via a diverse and flexible learning environment encompassing the next generation of learning spaces.</p>
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<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Project Size

	GSF	ASF	ASF/GSF
Project Size:	206,500	130,266	63%
Net Change in Overall Campus Space:	0	0	

#### Project Cost Summary

Total Project Cost:	\$45,000,000	Cost Per GSF/ASF:	\$218 GSF
			\$345 ASF

#### Project Funding

	Funding Amount	Funding Type	Funding Source Description
Funding Sources:	\$45,000,000	State	Bonding Authority (Acts of 1965) {IC 21-34-6}
<b>Total Funding</b>	<b>\$45,000,000</b>		

#### Annual Cost

Estimated annual change in cost of building operations based on the project:	\$0
Estimated annual repair and rehabilitation investment:	\$0

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Detail Description of Project

Indiana University proposes a renovation of the former Wishard Regenstrief Building located on the IU School of Medicine/Health Science campus. The facility is 39 years old and encompasses 206,500 square feet. This project consists of renovating and transforming administrative and clinical space into a state-of-the art facility with lab, classroom, and administrative space. New interior infrastructure will include energy efficient mechanical systems, upgraded building systems (electrical, plumbing, computer data, and fire suppression), and accessibility upgrades. The exterior of the building will have new energy efficient windows added and the roof will be updated. Renovation of this existing facility in its centralized location on the former Wishard campus is a more efficient use of space and resources than new construction, and will allow students and faculty to work collaboratively in close proximity to other critical practice and research facilities.

**Relationship to Other Capital Improvement Projects:** This project is part of the overall development of the IU Health Science Campus on the former Wishard site. The Dunlap Building is being renovated for use as the IU Center for Drug Discovery. Bryce and Ott are being renovated and expanded as part of the IU School of Medicine's Public Health and Health Science Innovation Renovation and Expansion. The Primary Care Center is being renovated for use by the IU School of Dentistry. Krannert/Bellflower was demolished for the construction of a new building by the Regenstrief Institute. Myers, Burdsal, East, West, Sunshine Corridor, and F-Wing will be demolished as renovation was determined to be cost-prohibitive.

**Historical Significance:** Indiana University does not consider any of the buildings or structures affected by this project to be historically significant.

**Alternatives Considered:** Renovation of this existing facility in its centralized location on the former Wishard campus was determined to be a more efficient use of space and resources than new construction.

**Relationship to Long-Term Capital Plan for Indiana University:** This project is consistent with the master plan for the IU Health Science Campus in Indianapolis to serve the School of Medicine and related disciplines.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Need & Purpose

In order to attract and retain the best students, the IU School of Medicine/Health Science campus must have modern facilities and the latest equipment to continue to recruit and retain top students and faculty. The Integrated Health Education Complex directly supports the university's life sciences initiative, and will centrally locate students and faculty with practice opportunities at IU Health University Hospital, Eskenazi Health, Richard L. Roudebush VA Medical Center, and Riley Hospital for Children, as well as state-of-the-art research collaboration opportunities at the adjacent IU Center for Drug Discovery. This renovation will support Interprofessional Education, which encourages interaction and collaboration among students, faculty and staff in multiple programs. These programs include medicine, nursing, dentistry, optometry, social work, pharmacy, public health, and others. Team-based, problem-based, and experiential learning is encouraged via a diverse and flexible learning environment encompassing the next generation of learning spaces. Renovation of this existing facility in its centralized location on the former Wishard campus is a more efficient use of space and resources than new construction.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Space Utilization

This project will convert administrative and clinical space into a state-of-the art facility with lab, classroom, and administrative space.

#### Comparable Projects

The VanNuys Medical Science Building Lab Renovation in Indianapolis was approximately \$208/gsf.

#### Background Materials



<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Overall Space in ASF

Space Type Name	Current Space In Use	Space Under Construction	Space Planned And Funded	Subtotal Current And Future Space	Space to be Terminated	New Space In Capital Request	Net Future Space
Classroom (110 & 115)	1,342	0	0	1,342	0	0	1,342
Class Lab (210, 215, 220, 225, 230, 235)	0	0	0	0	0	0	0
Non-class Lab (250 & 255)	0	0	0	0	0	0	0
Office Facilities (300)	55,390	0	0	55,390	0	0	55,390
Study Facilities (400)	0	0	0	0	0	0	0
Special Use Facilities (500)	3,932	0	0	3,932	0	0	3,932
General Use Facilities (600)	2,938	0	0	2,938	0	0	2,938
Support Facilities (700)	285	0	0	285	0	0	285
Health Care Facilities (800)	62,379	0	0	62,379	0	0	62,379
Resident Facilities (900)	0	0	0	0	0	0	0
Unclassified (000)	4,000	0	0	4,000	0	0	4,000
<b>TOTAL SPACE</b>	130,266	0	0	130,266	0	0	130,266

#### Space Detail Notes

Represents asf in IN144 Regenstrief

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Anticipated Construction Schedule

Bid Date:	<input type="text" value="December"/>	<input type="text" value="2015"/>
Start Construction:	<input type="text" value="February"/>	<input type="text" value="2016"/>
Occupancy (End Date):	<input type="text" value="May"/>	<input type="text" value="2017"/>

#### Estimated Cost for Project

		Cost Basis	Escalation Factors	Project Cost
<b>Planning Costs</b>	Engineering	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Architectural	<input type="text" value="\$3,600,000"/>	<input type="text" value="\$0"/>	\$3,600,000
	Consulting	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
<b>Construction</b>	Structure	<input type="text" value="\$14,400,000"/>	<input type="text" value="\$0"/>	\$14,400,000
	Mechanical (HVAC, plumbing, etc.)	<input type="text" value="\$14,400,000"/>	<input type="text" value="\$0"/>	\$14,400,000
	Electrical	<input type="text" value="\$7,200,000"/>	<input type="text" value="\$0"/>	\$7,200,000
<b>Other</b>	Movable Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Fixed Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Site Development/Land Acquisition	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	<input type="text" value="Contingency, Admin &amp; Legal Fees"/>	<input type="text" value="\$5,400,000"/>	<input type="text" value="\$0"/>	\$5,400,000
<b>Total Estimated Cost</b>		<b>\$45,000,000</b>	<b>\$0</b>	<b>\$45,000,000</b>

#### Cost Detail Notes

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<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Integrated Health Education Complex - Phase I
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-18
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:14 PM

#### Annual Operating Cost/Savings

	Personnel Services	Supplies and Expenses	Total Operating Cost	Cost per GSF
Operations	\$0	\$0	\$0	\$0.00
Maintenance	\$0	\$0	\$0	\$0.00
Fuel	\$0	\$0	\$0	\$0.00
Utilities	\$0	\$0	\$0	\$0.00
Other	\$0	\$0	\$0	\$0.00
<b>Total Estimated Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0.00</b>

#### Cost Detail Notes

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### General Project Information

Project Name/Title:	IU School of Medicine Health Science Innovation Renovation and Expansion	Institutional Priority:	3
Budget Agency Project No:	A-2-15-2-10	Project Type:	Major Repair and Rehabilitation
Previously Approved by General Assembly:	No	Previously Recommended by CHE:	No

#### Project Summary

<p>Indiana University proposes the renovation and expansion of the former Wishard Bryce and Ott Buildings located on the IU School of Medicine/Health Science campus. This facility will house units of the IU School of Medicine and Health Science programs and serve other affiliated organizations such as the Indiana Biosciences Research Institute, creating research and innovation space for the expansion of health science research and related growth enterprises. This project consists of renovating and transforming hospital support spaces into state-of-the-art research, innovation, classroom, and administrative spaces in close proximity to other research and practice facilities such as IU Health University Hospital, Eskenazi Health, Richard L. Roudebush VA Medical Center, and Riley Hospital for Children. New infrastructure will include energy efficient mechanical systems, upgraded building systems (electrical, plumbing, computer data, and fire suppression), accessibility upgrades, and updated roofs.</p>
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#### Summary of the Impact on the Educational Attainment of Students

<p>This renovation and expansion will forge partnerships and connections between industry and Indiana University in a synergistic environment, furthering growth and learning opportunities for IU students and researchers, as well as contributing to the economic advancement of the state of Indiana via the development of new businesses and products in biosciences.</p>
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<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Project Size

	GSF	ASF	ASF/GSF
Project Size:	131,208	79,229	60%
Net Change in Overall Campus Space:	-136,855	-43,831	

#### Project Cost Summary

Total Project Cost:	\$30,000,000	Cost Per GSF/ASF:	\$229 <b>GSF</b>
			\$379 <b>ASF</b>

#### Project Funding

	Funding Amount	Funding Type	Funding Source Description
Funding Sources:	\$30,000,000	State	Bonding Authority (Acts of 1965) {IC 21-34-6}
<b>Total Funding</b>	<b>\$30,000,000</b>		

#### Annual Cost

Estimated annual change in cost of building operations based on the project:	\$0
Estimated annual repair and rehabilitation investment:	\$0

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Detail Description of Project

Indiana University proposes the renovation and expansion of the former Wishard Bryce and Ott Buildings located on the IU School of Medicine/Health Science campus. This facility will house units of the IU School of Medicine and Health Science programs and serve other affiliated organizations such as the Indiana Biosciences Research Institute, creating research and innovation space for the expansion of health science research and related growth enterprises. This project consists of renovating and transforming hospital support spaces into state-of-the-art research, innovation, classroom, and administrative spaces in close proximity to other research and practice facilities such as IU Health University Hospital, Eskenazi Health, Richard L. Roudebush VA Medical Center, and Riley Hospital for Children. New infrastructure will include energy efficient mechanical systems, upgraded building systems (electrical, plumbing, computer data, and fire suppression), accessibility upgrades, and updated roofs.

**Relationship to Other Capital Improvement Projects:** This project is part of the overall development of the IU Health Science Campus on the former Wishard site. The Dunlap and Regenstrief buildings are being renovated for use as the IU Center for Drug Discovery and the IU School of Medicine Integrated Health Education Complex, respectively. The Primary Care Center is being renovated for use by the IU School of Dentistry. Krannert/Bellflower was demolished for the construction of a new building by the Regenstrief Institute. Myers, Burdsal, East, West, Sunshine Corridor, and F-Wing will be demolished as renovation was determined to be cost-prohibitive.

**Historical Significance:** Bryce and Ott are the original buildings of the Wishard campus.

**Alternatives Considered:** No other alternatives were considered due to the nature of this project.

**Relationship to Long-Term Capital Plan for Indiana University:** This project is consistent with the master plan for the IU Health Science Campus in Indianapolis to serve the School of Medicine and related disciplines.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Need & Purpose

The Health Science Campus of the IU School of Medicine directly supports the university's life sciences initiative by creating research innovation space for the expansion of health science research and related growth enterprises. This renovation and expansion will forge partnerships and connections between industry and Indiana University in a synergistic environment, furthering growth and learning opportunities for IU students and researchers, as well as contributing to the economic advancement of the state of Indiana via the development of new businesses and products in biosciences.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Space Utilization

Hospital support spaces will be converted into state-of-the-art research, innovation, classroom and administrative space.

#### Comparable Projects

Renovation of the IUPUI Rotary Building was approximately \$256/gsf (in 2011 dollars).

Renovation of the Wishard/Dunlap Building at IUPUI will be approximately \$185/gsf.

Construction of the IUB Innovation Center was approximately \$250/gsf.

#### Background Materials



<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Overall Space in ASF

Space Type Name	Current Space In Use	Space Under Construction	Space Planned And Funded	Subtotal Current And Future Space	Space to be Terminated	New Space In Capital Request	Net Future Space
Classroom (110 & 115)	2,991	0	0	2,991	0	7,800	10,791
Class Lab (210, 215, 220, 225, 230, 235)	0	0	0	0	0	3,510	3,510
Non-class Lab (250 & 255)	0	0	0	0	0	0	0
Office Facilities (300)	24,562	0	0	24,562	25,477	12,480	11,565
Study Facilities (400)	0	0	0	0	0	6,240	6,240
Special Use Facilities (500)	17,894	0	0	17,894	2,689	0	15,205
General Use Facilities (600)	1,548	0	0	1,548	1,120	1,170	1,598
Support Facilities (700)	0	0	0	0	277	0	-277
Health Care Facilities (800)	1,020	0	0	1,020	93,497	0	-92,477
Resident Facilities (900)	0	0	0	0	0	0	0
Unclassified (000)	14	0	0	14	0	0	14
<b>TOTAL SPACE</b>	<b>48,029</b>	<b>0</b>	<b>0</b>	<b>48,029</b>	<b>123,060</b>	<b>31,200</b>	<b>-43,831</b>

#### Space Detail Notes

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Anticipated Construction Schedule

Bid Date:	December	2015
Start Construction:	February	2016
Occupancy (End Date):	March	2017

#### Estimated Cost for Project

		Cost Basis	Escalation Factors	Project Cost
<b>Planning Costs</b>	Engineering	\$0	\$0	\$0
	Architectural	\$1,500,000	\$0	\$1,500,000
	Consulting	\$0	\$0	\$0
<b>Construction</b>	Structure	\$14,700,000	\$0	\$14,700,000
	Mechanical (HVAC, plumbing, etc.)	\$6,000,000	\$0	\$6,000,000
	Electrical	\$4,500,000	\$0	\$4,500,000
<b>Other</b>	Movable Equipment	\$0	\$0	\$0
	Fixed Equipment	\$0	\$0	\$0
	Site Development/Land Acquisition	\$0	\$0	\$0
	Contingency, Admin & Legal Fees	\$3,300,000	\$0	\$3,300,000
<b>Total Estimated Cost</b>		<b>\$30,000,000</b>	<b>\$0</b>	<b>\$30,000,000</b>

#### Cost Detail Notes

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Health Science Innovation Renovation and Expansion
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-15-2-10
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:16 PM

#### Annual Operating Cost/Savings

	Personnel Services	Supplies and Expenses	Total Operating Cost	Cost per GSF
Operations	\$0	\$0	\$0	\$0.00
Maintenance	\$0	\$0	\$0	\$0.00
Fuel	\$0	\$0	\$0	\$0.00
Utilities	\$0	\$0	\$0	\$0.00
Other	\$0	\$0	\$0	\$0.00
<b>Total Estimated Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0.00</b>

#### Cost Detail Notes

**Institution:** Indiana University-Bloomington

**Project:** Lab Renovations - Phase II

**Biennium:** 2015-2017

**Project No:** A-1-15-2-04

**Submitted:** Yes

**Last Updated:** 9/5/2014 12:13 PM

### General Project Information

Project Name/Title: Lab Renovations - Phase II

Institutional Priority: 4

Budget Agency Project No: A-1-15-2-04

Project Type: Major Repair and Rehabilitation

Previously Approved by  
General Assembly: No

Previously  
Recommended by CHE: No

### Project Summary

Three buildings on the IUB campus (Chemistry - constructed 1931, Jordan Hall - constructed 1955, Geological Sciences - constructed 1962) are in need of upgrades and renovations to bring these facilities up-to-date with modern standards for lab space and overall building efficiency, as well as occupant safety. This is a continuation of work begun in the Life Sciences Lab Renovations project, which specifically targeted mechanical systems for labs in Jordan Hall. Overall building infrastructure upgrades will be a major focus of this project, seeing the improvement of the mechanical systems for all three buildings, as well as ensuring a best and safe learning environment with the installation of multiple fume hoods and air exchange equipment, in addition to plumbing and electrical upgrades to meet code requirements. Teaching lab and research spaces will be upgraded and renovated with new technologies, research equipment, and flooring. These lab and research spaces also will be reconfigured from individual labs to shared spaces that will encourage collaborative efforts.

### Summary of the Impact on the Educational Attainment of Students

Upgrades and renovations of these facilities would provide a place where students and faculty could realize the university's full vision for collaborative science research in state-of-the-art facilities. Current lab spaces are designed for one researcher in one lab space; renovations will allow multiple researchers to collaborate on projects in a more flexible, modern and safe environment. Renovations will allow programs in Chemistry, Biology and Geological Sciences to continue to attract high-caliber students and research funding.

<b>Institution:</b>	Indiana University-Bloomington	<b>Project:</b>	Lab Renovations - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-1-15-2-04
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:13 PM

#### Project Size

	GSF	ASF	ASF/GSF
Project Size:	698,459	418,069	60%
Net Change in Overall Campus Space:	0	0	

#### Project Cost Summary

Total Project Cost:	\$33,000,000	Cost Per GSF/ASF:	\$47 GSF
			\$79 ASF

#### Project Funding

	Funding Amount	Funding Type	Funding Source Description
Funding Sources:	\$33,000,000	State	Bonding Authority (Acts of 1965) {IC 21-34-6}
<b>Total Funding</b>	<b>\$33,000,000</b>		

#### Annual Cost

Estimated annual change in cost of building operations based on the project:	\$0
Estimated annual repair and rehabilitation investment:	\$0

**Institution:** Indiana University-Bloomington

**Project:** Lab Renovations - Phase II

**Biennium:** 2015-2017

**Project No:** A-1-15-2-04

**Submitted:** Yes

**Last Updated:** 9/5/2014 12:13 PM

### Detail Description of Project

Three buildings on the IUB campus (Chemistry - constructed 1931, Jordan Hall - constructed 1955, Geological Sciences - constructed 1962) are in need of upgrades and renovations to bring these facilities up-to-date with modern standards for lab space and overall building efficiency, as well as occupant safety. This is a continuation of work begun in the Life Sciences Lab Renovations project, which specifically targeted mechanical systems for labs in Jordan Hall. Overall building infrastructure upgrades will be a major focus of this project, seeing the improvement of the mechanical systems for all three buildings, as well as ensuring a best and safe learning environment with the installation of multiple fume hoods and air exchange equipment, in addition to plumbing and electrical upgrades to meet code requirements. Teaching lab and research spaces will be upgraded and renovated with new technologies, research equipment, and flooring. These lab and research spaces also will be reconfigured from individual labs to shared spaces that will encourage collaborative efforts.

Upgrades and renovations of these facilities would provide a place where students and faculty could realize the university's full vision for collaborative science research in state-of-the-art facilities. Current lab spaces are designed for one researcher in one lab space; renovations will allow multiple researchers to collaborate on projects in a more flexible, modern and safe environment. Jordan Hall houses a large percentage of the biomedical research and education facilities on the Bloomington campus; specifically teaching and research labs for the Department of Biology and the Bloomington branch of the Indiana University School of Medicine, with the Geological Sciences and Chemistry buildings serving their respective programs. Renovations will allow these programs to continue to attract high-caliber students and research funding.

**Relationship to Other Capital Improvement Projects:** This project is part of a larger, multi-phase project to renovate lab space on the IUB campus.

**Historical Significance:** Indiana University does not consider any of the buildings or structures affected by this project to be historically significant.

**Alternatives Considered:** Renovation of this existing facility was determined to be a more efficient use of space and resources than new construction.

**Relationship to Long-Term Capital Plan for Indiana University:** This project is part of the university's ten-year plan.

**Institution:** Indiana University-Bloomington

**Project:** Lab Renovations - Phase II

**Biennium:** 2015-2017

**Project No:** A-1-15-2-04

**Submitted:** Yes

**Last Updated:** 9/5/2014 12:13 PM

### Need & Purpose

Upgrades and renovations of these facilities would provide a place where students and faculty could realize the university's full vision for collaborative science research in state-of-the-art facilities. Current lab spaces are designed for one researcher in one lab space; renovations will allow multiple researchers to collaborate on projects in a more flexible, modern and safe environment. Jordan Hall houses a large percentage of the biomedical research and education facilities on the Bloomington campus; specifically teaching and research labs for the Department of Biology and the Bloomington branch of the Indiana University School of Medicine, with the Geological Sciences and Chemistry buildings serving their respective programs. Renovations will allow these programs to continue to attract high-caliber students and research funding.

**Institution:** Indiana University-Bloomington

**Project:** Lab Renovations - Phase II

**Biennium:** 2015-2017

**Project No:** A-1-15-2-04

**Submitted:** Yes

**Last Updated:** 9/5/2014 12:13 PM

### Space Utilization

This project does not change the use of any space.

### Comparable Projects

The VanNuys Medical Science Building Lab Renovation at IUPUI was approximately \$208/gsf.

The IUB Life Sciences Lab Renovation (Jordan Hall) was approximately \$417/gsf.

### Background Materials



**Institution:** Indiana University-Bloomington**Project:** Lab Renovations - Phase II**Biennium:** 2015-2017**Project No:** A-1-15-2-04**Submitted:** Yes**Last Updated:** 9/5/2014 12:13 PM**Overall Space in ASF**

Space Type Name	Current Space In Use	Space Under Construction	Space Planned And Funded	Subtotal Current And Future Space	Space to be Terminated	New Space In Capital Request	Net Future Space
Classroom (110 & 115)	20,697	0	0	20,697	0	0	20,697
Class Lab (210, 215, 220, 225, 230, 235)	59,344	0	0	59,344	0	0	59,344
Non-class Lab (250 & 255)	181,944	0	0	181,944	0	0	181,944
Office Facilities (300)	83,742	0	0	83,742	0	0	83,742
Study Facilities (400)	21,694	0	0	21,694	0	0	21,694
Special Use Facilities (500)	21,525	0	0	21,525	0	0	21,525
General Use Facilities (600)	5,085	0	0	5,085	0	0	5,085
Support Facilities (700)	20,823	0	0	20,823	0	0	20,823
Health Care Facilities (800)	0	0	0	0	0	0	0
Resident Facilities (900)	0	0	0	0	0	0	0
Unclassified (000)	3,215	0	0	3,215	0	0	3,215
<b>TOTAL SPACE</b>	<b>418,069</b>	<b>0</b>	<b>0</b>	<b>418,069</b>	<b>0</b>	<b>0</b>	<b>418,069</b>

**Space Detail Notes**

Current space in use represents asf in BL417 Geological Sciences, BL071-072 Chemistry, and BL107 Jordan

**Institution:** Indiana University-Bloomington

**Project:** Lab Renovations - Phase II

**Biennium:** 2015-2017

**Project No:** A-1-15-2-04

**Submitted:** Yes

**Last Updated:** 9/5/2014 12:13 PM

#### Anticipated Construction Schedule

Bid Date:

Start Construction:

Occupancy (End Date):

#### Estimated Cost for Project

		Cost Basis	Escalation Factors	Project Cost
<b>Planning Costs</b>	Engineering	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Architectural	<input type="text" value="\$1,980,000"/>	<input type="text" value="\$0"/>	\$1,980,000
	Consulting	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
<b>Construction</b>	Structure	<input type="text" value="\$11,550,000"/>	<input type="text" value="\$0"/>	\$11,550,000
	Mechanical (HVAC, plumbing, etc.)	<input type="text" value="\$11,550,000"/>	<input type="text" value="\$0"/>	\$11,550,000
	Electrical	<input type="text" value="\$5,940,000"/>	<input type="text" value="\$0"/>	\$5,940,000
<b>Other</b>	Movable Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Fixed Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Site Development/Land Acquisition	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	<input type="text" value="Contingency, Admin &amp; Legal Fees"/>	<input type="text" value="\$1,980,000"/>	<input type="text" value="\$0"/>	\$1,980,000
<b>Total Estimated Cost</b>		<b>\$33,000,000</b>	<b>\$0</b>	<b>\$33,000,000</b>

#### Cost Detail Notes

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**Institution:** Indiana University-Bloomington

**Project:** Lab Renovations - Phase II

**Biennium:** 2015-2017

**Project No:** A-1-15-2-04

**Submitted:** Yes

**Last Updated:** 9/5/2014 12:13 PM

**Annual Operating Cost/Savings**

	<b>Personnel Services</b>	<b>Supplies and Expenses</b>	<b>Total Operating Cost</b>	<b>Cost per GSF</b>
Operations	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Maintenance	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Fuel	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Utilities	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
Other	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	\$0.00
<b>Total Estimated Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0.00</b>

**Cost Detail Notes**

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<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### General Project Information

Project Name/Title:	Regional Campus Deferred Maintenance - Phase II	Institutional Priority:	5
Budget Agency Project No:	A-0-15-2-03	Project Type:	Major Repair and Rehabilitation
Previously Approved by General Assembly:	No	Previously Recommended by CHE:	No

#### Project Summary

<p>Indiana University proposes to address the continuation of work begun in Phase I of the Regional Campus Deferred Maintenance project approved in 2013. The regional campuses at Indiana University (East, Kokomo, Northwest, Southeast and South Bend) have deferred maintenance of approximately \$27,875,000. This funding request will address most of the critically-needed repairs and renovations on these campuses.</p> <p>Many of the regional campus facilities are reaching 30-40 years of age, thus bringing building systems to the end of their useful life and making envelopes in need of maintenance. Projects to ensure safe and effective learning and work environments for students and faculty include replacements/repairs of building exteriors, replacements/repairs of campus and building systems, road improvements, and code updates for accessibility and campus safety.</p>
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#### Summary of the Impact on the Educational Attainment of Students

<p>All of these facilities are vitally necessary to the teaching and research mission of these campuses and must be kept functioning at a high level to ensure safe and effective learning and work environments for students and faculty.</p>
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<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Project Size

	GSF	ASF	ASF/GSF
Project Size:	<input type="text" value="0"/>	<input type="text" value="0"/>	
Net Change in Overall Campus Space:	<input type="text" value="0"/>	<input type="text" value="0"/>	

#### Project Cost Summary

Total Project Cost:	<input type="text" value="\$27,875,000"/>	Cost Per GSF/ASF:	GSF
			ASF

#### Project Funding

	Funding Amount	Funding Type	Funding Source Description
Funding Sources:	<input type="text" value="\$27,875,000"/>	<input type="text" value="State"/>	<input data-bbox="859 898 1310 940" type="text" value="Bonding Authority (Acts of 1965) {IC 21-34-6}"/>
<b>Total Funding</b>	<b>\$27,875,000</b>		

#### Annual Cost

Estimated annual change in cost of building operations based on the project:	<input type="text" value="\$0"/>
Estimated annual repair and rehabilitation investment:	<input type="text" value="\$0"/>

<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Detail Description of Project

Indiana University proposes to address deferred maintenance issues currently affecting its regional campuses. The regional campuses at Indiana University (East, Kokomo, Northwest, Southeast and South Bend) have deferred maintenance of approximately \$27,875,000. Projects to ensure safe and effective learning and work environments for students and faculty include replacements/repairs of building exteriors, replacements/repairs of campus and building systems, road improvements, and code updates for accessibility and campus safety.

This project includes:

IU East - [\$3,200,000]  
Electrical Distribution System Upgrades - [\$2,000,000]  
Multi-Building Replace Mechanical Systems Controls - [\$1,200,000]

IU Kokomo - [\$750,000]  
Kelley Student Center Boiler Replacement - [\$500,000]  
East Building Second Floor Corridor Renovation - [\$250,000]

IU Northwest - [\$10,400,000]  
Fire Alarm and Sprinkler System Upgrades - [\$1,000,000]  
Accessibility Upgrades - [\$1,250,000]  
Dunes Window Repairs - [\$300,000]  
Moraine Window Repairs - [\$500,000]  
Marram Building Envelope Repairs - [\$350,000]  
Hawthorn Hall Renovation - [\$7,000,000]

IU Southeast - [\$2,525,000]  
Elevator Accessibility Upgrades - [\$1,070,000]  
Multi-Building Restroom Upgrades - [\$430,000]  
Multi-Building Mechanical Systems Controls Upgrades - [\$275,000]  
Hillside Hall Bridge Replacement - [\$200,000]  
Library Boiler Replacement - [\$150,000]  
Road Improvements - [\$400,000]

IU South Bend - [\$11,000,000]  
Northside Hall Renovation - Phase II - [\$11,000,000]

Relationship to Other Capital Improvement Projects: Each of these projects stands alone. They are not dependent on one another to be effective solutions for addressed building or infrastructure problems. However, these projects are vitally necessary on each campus to provide infrastructure, safety, utility, or other needs. This funding request will address most of the critically-needed repairs and renovations on these campuses in order to carry out the teaching and research mission of the university.

Historical Significance: This project will have no impact on the historic nature of the buildings or structures.

Alternatives Considered: All of these projects have options. As design work begins, all alternatives will be considered, and the most appropriate and cost efficient design will be selected. It is the practice of Indiana University to use proven technology to meet challenges of the facilities management.

<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Need & Purpose

Indiana University proposes to address the continuation of work begun in Phase I of the Regional Campus Deferred Maintenance project approved in 2013. The regional campuses at Indiana University (East, Kokomo, Northwest, Southeast and South Bend) have deferred maintenance of approximately \$27,875,000. This funding request will address most of the critically-needed repairs and renovations on these campuses.

Many of the regional campus facilities are reaching 30-40 years of age, thus bringing building systems to the end of their useful life and making envelopes in need of maintenance to continue to be effective. All of these facilities are vitally necessary to the teaching and research mission of these campuses and must be kept functioning at a high level. Projects to ensure safe and effective learning and work environments for students and faculty include replacements/repairs of building exteriors, replacements/repairs of campus and building systems, road improvements, and code updates for accessibility and campus safety.

<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Space Utilization

This project does not impact the use of any space.

#### Comparable Projects

Regional Campus Deferred Maintenance - Phase I project had a total cost of approximately \$29,000.000.

This project is unique. There is no cost per square foot to use as a comparison as most of these projects involve building systems where some components of the systems can be re-used while other components need to be replaced. Also, with the building envelope projects, the buildings are evaluated on a case-by-case basis to determine how much repair must be done.

#### Background Materials



<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Overall Space in ASF

Space Type Name	Current Space In Use	Space Under Construction	Space Planned And Funded	Subtotal Current And Future Space	Space to be Terminated	New Space In Capital Request	Net Future Space
Classroom (110 & 115)	0	0	0	0	0	0	0
Class Lab (210, 215, 220, 225, 230, 235)	0	0	0	0	0	0	0
Non-class Lab (250 & 255)	0	0	0	0	0	0	0
Office Facilities (300)	0	0	0	0	0	0	0
Study Facilities (400)	0	0	0	0	0	0	0
Special Use Facilities (500)	0	0	0	0	0	0	0
General Use Facilities (600)	0	0	0	0	0	0	0
Support Facilities (700)	0	0	0	0	0	0	0
Health Care Facilities (800)	0	0	0	0	0	0	0
Resident Facilities (900)	0	0	0	0	0	0	0
Unclassified (000)	0	0	0	0	0	0	0
<b>TOTAL SPACE</b>	0	0	0	0	0	0	0

#### Space Detail Notes

<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Anticipated Construction Schedule

Bid Date:	<input type="text" value="October"/>	<input type="text" value="2015"/>
Start Construction:	<input type="text" value="December"/>	<input type="text" value="2015"/>
Occupancy (End Date):	<input type="text" value="July"/>	<input type="text" value="2016"/>

#### Estimated Cost for Project

		Cost Basis	Escalation Factors	Project Cost
<b>Planning Costs</b>	Engineering	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Architectural	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Consulting	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
<b>Construction</b>	Structure	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Mechanical (HVAC, plumbing, etc.)	<input type="text" value="\$13,937,500"/>	<input type="text" value="\$0"/>	\$13,937,500
	Electrical	<input type="text" value="\$13,937,500"/>	<input type="text" value="\$0"/>	\$13,937,500
<b>Other</b>	Movable Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Fixed Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Site Development/Land Acquisition	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	<input type="text" value="Other - Please List"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
<b>Total Estimated Cost</b>		<b>\$27,875,000</b>	<b>\$0</b>	<b>\$27,875,000</b>

#### Cost Detail Notes

<b>Institution:</b>	Indiana University System	<b>Project:</b>	Regional Campus Deferred Maintenance - Phase II
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-0-15-2-03
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:19 PM

#### Annual Operating Cost/Savings

	Personnel Services	Supplies and Expenses	Total Operating Cost	Cost per GSF
Operations	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	
Maintenance	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	
Fuel	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	
Utilities	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	
Other	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0	
<b>Total Estimated Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	

#### Cost Detail Notes

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### General Project Information

Project Name/Title:	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville	Institutional Priority:	6
Budget Agency Project No:	A-2-14-1-15	Project Type:	New Construction
Previously Approved by General Assembly:	Yes	Previously Recommended by CHE:	Yes

#### Project Summary

The Indiana University School of Medicine (Medical Education and Research), University of Southern Indiana (Occupational Therapy and Health Informatics) University of Evansville (Physical Therapy and Physicians' Assistant Program), and Ivy Tech Community College of Indiana (Health Sciences and Nursing) seek to co-locate health profession education delivery in the Evansville region. Each University is committed to creating learning environments which promote academic excellence, foster personal development, and enhance the University experience for diverse student populations. Total new space required for these instructional and research activities will be approximately 223,100 gross square feet to be located in one facility complex in downtown Evansville. IU's portion of the facility will be 77,516 gsf, with the remaining gsf divided amongst Ivy Tech, University of Evansville, and University of Southern Indiana.

#### Summary of the Impact on the Educational Attainment of Students

This project is essential for the health science education in the Evansville region. It will enable the partners - Indiana University School of Medicine; Ivy Tech Community College, Health Science and Nursing Programs; University of Southern Indiana, Occupational Therapy and Health Informatics; and University of Evansville, Physical Therapy and Physician's Assistant Programs to focus on a learning environment that attracts the most talented students and trains them in sophisticated simulation and clinical skills labs with the latest technologies. It will also provide a dedicated facility focusing on a common inter-professional education mission while allowing each institution to advance its students and faculty. It will develop a diverse and flexible learning environment that will encompass the next generation of learning spaces that support team-based, problem-based, and experiential learning.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Project Size

	GSF	ASF	ASF/GSF
Project Size:	77,516	46,003	59%
Net Change in Overall Campus Space:	0	0	

#### Project Cost Summary

Total Project Cost:	\$19,200,000	Cost Per GSF/ASF:	\$248 <b>GSF</b>
			\$417 <b>ASF</b>

#### Project Funding

	Funding Amount	Funding Type	Funding Source Description
Funding Sources:	\$19,200,000	State	Lease Funding or Bonding Authority (Acts of 1965) {IC 21-34-6}
<b>Total Funding</b>	<b>\$19,200,000</b>		

#### Annual Cost

Estimated annual change in cost of building operations based on the project:	\$620,128
Estimated annual repair and rehabilitation investment:	\$0

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Detail Description of Project

The Indiana University School of Medicine (Medical Education and Research), University of Southern Indiana (Occupational Therapy and Health Informatics) University of Evansville (Physical Therapy and Physicians' Assistant Program), and Ivy Tech Community College of Indiana (Health Sciences and Nursing) seek to co-locate health profession education delivery in the Evansville region. Each University is committed to creating learning environments which promote academic excellence, foster personal development, and enhance the University experience for diverse student populations. Total new space required for these instructional and research activities will be approximately 223,100 gross square feet to be located in one facility complex in downtown Evansville. IU's portion of the facility will be 77,516 gsf, with the remaining gsf divided amongst Ivy Tech, University of Evansville, and University of Southern Indiana.

**Relationship to Other Capital Improvement Projects:** This project does not have a direct impact on any other capital improvement projects.

**Historical Significance:** Indiana University does not consider any of the buildings or structures affected by this project to be historically significant.

**Alternatives Considered:** Other options were considered; however, having the facility built at the downtown site proved to be best suited for students and faculty/staff allowing for maximum accessibility, and allowed it to be ideally situated among all the major hospital facilities in the greater Evansville area, as well as having easy interstate access to other healthcare facilities in the region by way of I-164.

**Relationship to Long-Term Capital Plan for Indiana University:** This project is consistent with the mission of extending the IU School of Medicine in the southwest region of Indiana.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Need & Purpose

This project is essential for the health science education in the Evansville region. With a multi-institutional academic health science and research center located in the southwestern region of Indiana, it will enable the university to reach beyond its own campus borders and academic programs to focus on a learning environment that attracts the most talented students and trains them in sophisticated simulation and clinical skills labs with the latest technologies. It will also provide a dedicated facility focusing on a common inter-professional education mission while allowing each institution to advance its students and faculty. It will develop a diverse and flexible learning environment that will encompass the next generation of learning spaces that support team-based, problem-based, and experiential learning.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Space Utilization

This facility will provide space for four (4) local institutional partners: IU School of Medicine, University of Evansville, University of Southern Indiana, and Ivy Tech Community College. The Multi-Institutional Academic Health Science and Research Center will contain 100,391 total assignable square feet (asf) consisting of a five-story tower connected to a two-story wing. This two building/wing configuration will be utilized by all partner institutions with each having dedicated space and common shared space. This facility will house office/support space, research labs, wet/dry teaching labs, seminar/classrooms, and a simulation center/clinic.

#### Comparable Projects

The IUSB Raclin-Carmichael Center at approximately \$328/gsf (in 2008 dollars) and the IPFW Medical Education Center at approximately \$290/gsf (in 2004 dollars).

#### Background Materials



<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Overall Space in ASF

Space Type Name	Current Space In Use	Space Under Construction	Space Planned And Funded	Subtotal Current And Future Space	Space to be Terminated	New Space In Capital Request	Net Future Space
Classroom (110 & 115)	7,788	0	0	7,788	0	0	7,788
Class Lab (210, 215, 220, 225, 230, 235)	6,740	0	0	6,740	0	0	6,740
Non-class Lab (250 & 255)	19,730	0	0	19,730	0	0	19,730
Office Facilities (300)	5,168	0	0	5,168	0	0	5,168
Study Facilities (400)	455	0	0	455	0	0	455
Special Use Facilities (500)	2,545	0	0	2,545	0	0	2,545
General Use Facilities (600)	2,025	0	0	2,025	0	0	2,025
Support Facilities (700)	1,552	0	0	1,552	0	0	1,552
Health Care Facilities (800)	0	0	0	0	0	0	0
Resident Facilities (900)	0	0	0	0	0	0	0
Unclassified (000)	0	0	0	0	0	0	0
<b>TOTAL SPACE</b>	<b>46,003</b>	<b>0</b>	<b>0</b>	<b>46,003</b>	<b>0</b>	<b>0</b>	<b>46,003</b>

#### Space Detail Notes

Reflects the IU portion of the project and IU's percentage of shared space.

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Anticipated Construction Schedule

Bid Date:	<input type="text" value="August"/>	<input type="text" value="2015"/>
Start Construction:	<input type="text" value="October"/>	<input type="text" value="2015"/>
Occupancy (End Date):	<input type="text" value="January"/>	<input type="text" value="2017"/>

#### Estimated Cost for Project

		Cost Basis	Escalation Factors	Project Cost
<b>Planning Costs</b>	Engineering	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Architectural	<input type="text" value="\$1,536,000"/>	<input type="text" value="\$0"/>	\$1,536,000
	Consulting	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
<b>Construction</b>	Structure	<input type="text" value="\$6,144,000"/>	<input type="text" value="\$0"/>	\$6,144,000
	Mechanical (HVAC, plumbing, etc.)	<input type="text" value="\$4,608,000"/>	<input type="text" value="\$0"/>	\$4,608,000
	Electrical	<input type="text" value="\$3,072,000"/>	<input type="text" value="\$0"/>	\$3,072,000
<b>Other</b>	Movable Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Fixed Equipment	<input type="text" value="\$0"/>	<input type="text" value="\$0"/>	\$0
	Site Development/Land Acquisition	<input type="text" value="\$1,536,000"/>	<input type="text" value="\$0"/>	\$1,536,000
	<input type="text" value="Contingency, Admin &amp; Legal Fees"/>	<input type="text" value="\$2,304,000"/>	<input type="text" value="\$0"/>	\$2,304,000
<b>Total Estimated Cost</b>		<b>\$19,200,000</b>	<b>\$0</b>	<b>\$19,200,000</b>

#### Cost Detail Notes

<b>Institution:</b>	Indiana University Schools of Medicine and Dentistry, Indianapolis	<b>Project:</b>	IU School of Medicine Multi-Institutional Academic Health Science and Research Center - Evansville
<b>Biennium:</b>	2015-2017	<b>Project No:</b>	A-2-14-1-15
<b>Submitted:</b>	Yes	<b>Last Updated:</b>	9/5/2014 12:17 PM

#### Annual Operating Cost/Savings

	<b>Personnel Services</b>	<b>Supplies and Expenses</b>	<b>Total Operating Cost</b>	<b>Cost per GSF</b>
Operations	\$128,986	\$32,247	\$161,233	\$2.08
Maintenance	\$0	\$43,409	\$43,409	\$0.56
Fuel	\$0	\$49,610	\$49,610	\$0.64
Utilities	\$0	\$310,064	\$310,064	\$4.00
Other	\$0	\$55,812	\$55,812	\$0.72
<b>Total Estimated Cost</b>	<b>\$128,986</b>	<b>\$491,142</b>	<b>\$620,128</b>	<b>\$8.00</b>

#### Cost Detail Notes

**CAPITAL REQUEST SCHEDULE IV (CRS IV)**  
**TEN YEAR CAPITAL PROJECT PLAN**  
**INDIANA PUBLIC POSTSECONDARY EDUCATION**  
**SUMMARY OF MAJOR PROJECTS RELATED TO THE TEN YEAR CAPITAL PLAN**

	Near Term 2015-17			Medium Term 2017-19			Long-Term 2019-25		
	Est. State Funding	Est. Other Funding (1)	Est. GSF Impact	Est. State Funding	Est. Other Funding (1)	Est. GSF Impact	Est. State Funding	Est. Other Funding (1)	Est. GSF Impact
<b>A. SPECIAL R&amp;R PROJECTS</b>									
1. List each project and anticipated start date									
IU School of Medicine Integrated Health Education Complex Phase I	\$ 45,000,000								
IUB Old Crescent Renovation - Phase II (Swain West, Kirkwood, Ernie Pyle)	\$ 48,500,000								
Regional Campus Deferred Maintenance	\$ 27,875,000								
IUB Lab Renovations - Phase II (Geological Sciences, Chemistry, Jordan Hall)	\$ 33,000,000								
IUB Satellite Utility Plan		\$ 13,000,000							
IUB Read Hall Renovation - Phase II		\$ 20,000,000							
IUB Renovate Wells Quad into Residence Hall		\$ 40,000,000							
IUB Renovation of Art Museum		\$ 30,000,000							
IUPUI Natatorium Renovations		\$ 20,000,000							
IU School of Medicine Health Science Innovation Renovation and Expansion (Wishard Bryce and Ott)	\$ 30,000,000								
IUB Wells Library Renovation				\$ 26,000,000			\$ 13,000,000		
IUB Old Crescent Renovation - Phase III (Ballantine Hall)				\$ 52,000,000					
IUB Music Addition Renovation				\$ 20,000,000					
IUB Lilly Library Renovation					\$ 17,000,000			\$ 12,000,000	
IUB Musical Arts Center Renovation					\$ 19,000,000				
IUB Parking Lot Renovations					\$ 5,000,000				
IUB Forest Quad Renovation					\$ 18,000,000				
IUB Edmondson Renovation					\$ 4,000,000				
IUB Old Crescent - Phase IV (Swain East, Law School, Bryan Hall, Maxwell, Woodburn)							\$ 47,000,000		
IUB Public Health Building Renovation							\$ 26,800,000		
IUB Recreation Center Renovation and Expansion								TBD	
IUB Wright Quad Renovation								\$ 24,000,000	
IUB Teter Renovation								\$ 11,000,000	
IUB McNutt Renovation								\$ 9,000,000	
IUB Collins Renovation								\$ 8,500,000	
IU School of Medicine Renovations (Fessler, Emerson, Long Hospital, Van Nuys, MRLB, Med Research, Gatch)				\$ 53,000,000					
IUPUI Taylor Hall Renovation - Phase I				\$ 6,400,000					
IUPUI Cavanaugh Hall Renovation				\$ 32,000,000					
IUPUI Nursing Renovation				\$ 15,000,000					
IUPUI Columbus Building Renovation				\$ 7,500,000					
IUPUI ET Building Renovation				\$ 27,500,000					
IUPUI Ball Residence Renovation					\$ 10,000,000				
IU School of Dentistry Renovation							\$ 25,000,000		
IUK Main Building Renovation - Phase II				\$ 3,000,000					
IUN Hawthorne Hall Renovations - Phase II				\$ 2,750,000					
IUSB Riverside Hall - Phase II							\$ 1,200,000	\$ 500,000	
IUS Ogle Center Renovation				TBD					
IUS Activities Building Renovation				TBD					
IUS Service Building Renovation							TBD		
<b>B. NEW CONSTRUCTION</b>									
1. List each project and anticipated start date									
IUB Multi Disciplinary Science Building III - Informatics	\$ 35,000,000		121,000						
IUB SPEA Renovation and Expansion	\$ 12,000,000		45,000						
IUB Innovation Center - Phase II	\$ 12,000,000		50,000						
IUB Parking Garage	\$ 15,000,000		N/A						
IUB Athletics Facility Expansion	\$ 75,000,000		300,000						
IUB Administrative Building	\$ 30,000,000		110,000						
IUB Multidisciplinary Research Science Building IV				\$ 40,000,000		105,000			
IUB New Student Housing					\$ 45,000,000	200,000			
IUB Maurer School of Law Addition								\$ 30,000,000	106,000
IUB Art Museum Expansion								\$ 25,000,000	90,000
IUB New Student Dining Hall								\$ 30,000,000	80,000
IUB Replacement Apartments for University East								\$ 21,500,000	76,000
IUPUI Campus Housing Expansion	\$ 45,200,000		175,000						
IUPUI Parking Garages	\$ 20,000,000		N/A		\$ 20,000,000	N/A			
IUPUI Science & Engineering Lab Building - Phase II				\$ 30,000,000		100,000			
IU School of Medicine Integrated Health Education Complex Phase II				\$ 40,000,000		130,000			
IU School of Medicine - Regional Medical Education Centers					\$ 20,000,000	75,000			
IU School of Dentistry - Oral Research					\$ 25,000,000	90,000			
IU School of Medicine Research V				\$ 25,000,000	\$ 25,000,000	175,000			
IUPUI Liberal Arts Building				\$ 30,000,000		100,000			
IUE Academic Building							\$ 18,000,000		75,000
IUN Classroom Academic Building							\$ 10,000,000		60,000
IUN Parking Garage								\$ 8,000,000	N/A
IUSB Health Science Building							\$ 27,500,000		82,000
IUSB Parking Garage								\$ 6,000,000	N/A
IUS Residence Hall - Phase III					\$ 6,000,000	37,500			
IUS Academic Building							\$ 15,000,000		45,000
IUS Activities Center								TBD	TBD
IUS Parking Garage								\$ 6,000,000	N/A
IUS Service Building Expansion							\$ 5,500,000		25,000

**CAPITAL REQUEST SCHEDULE IV (CRS IV)**  
**TEN YEAR CAPITAL PROJECT PLAN**  
**INDIANA PUBLIC POSTSECONDARY EDUCATION**  
**SUMMARY OF MAJOR PROJECTS RELATED TO THE TEN YEAR CAPITAL PLAN**

	Near Term 2015-17			Medium Term 2017-19			Long-Term 2019-25		
	Est. State Funding	Est. Other Funding (1)	Est. GSF Impact	Est. State Funding	Est. Other Funding (1)	Est. GSF Impact	Est. State Funding	Est. Other Funding (1)	Est. GSF Impact
<b>C. QUALIFIED ENERGY SAVINGS PROJECTS</b>									
1. List each project and anticipated start date									
<b>D. ACQUISITION (FACILITY, LAND OR LEASE)</b>									
1. List each project and anticipated start date									
<b>E. OTHER PROJECTS</b>									
1. IU School of Medicine - Multi-Institutional Academic Health Science and Research Center -Evansville	\$ 19,200,000		140,000						
<b>TOTAL CAPITAL PROJECT BUDGET REQUEST</b>	<b>\$ 203,575,000</b>	<b>\$ 209,200,000</b>	<b>941,000</b>	<b>\$ 410,150,000</b>	<b>\$ 214,000,000</b>	<b>1,012,500</b>	<b>\$ 189,000,000</b>	<b>\$ 191,500,000</b>	<b>639,000</b>

Notes

(1) Identify other funds if possible (Federal, Dedicated, Donations, etc)

- All projects that would need approval from the General Assembly or CHE/SBA/SBC should be included in this schedule
- Any project that would not need approval from the General Assembly or CHE/SBA/SBC should not be included in the schedule
- For projects listed in Medium and Long-Term, the estimated cost and GSF impact can be shown as a range
- Projects should include all costs associated with the project (structure, A&E, infrastructure, consulting, FF&E, etc.)

<b>Regional Campus Deferred Maintenance</b>		
- IUE Electrical Distribution System Upgrades	\$ 2,000,000	
- IUE Multi-Building Replace all HVAC Controls	\$ 1,200,000	
- IUN Fire Alarm/Sprinkler System Upgrades	\$ 1,000,000	
- IUN ADA Upgrades	\$ 1,250,000	
- IUN Dunes Window Repair	\$ 300,000	
- IUN Moraine Window Repairs	\$ 500,000	
- IUN Marram Building Envelope Repairs	\$ 350,000	
- IUN Hawthorn Hall Renovation	\$ 7,000,000	
- IUS Elevator ADA Upgrades	\$ 1,070,000	
- IUS Multi-Building Restroom Upgrades	\$ 430,000	
- IUS Multi-Building HVAC Controls Upgrades	\$ 275,000	
- IUS Hillside Hall Bridge Replacement	\$ 200,000	
- IUS Library Boiler Replacement	\$ 150,000	
- IUS Road Improvements	\$ 400,000	
- IUK Kelley Student Center Boiler Replacement	\$ 500,000	
- IUK East Building - 2nd floor corridor renovation	\$ 250,000	
- IUSB Northside Hall Renovation - Phase 2	\$ 11,000,000	\$ 27,875,000