

UNIVERSITY OF LOUISVILLE

Projects involving the General Fund (Cash or Bonds)*

Agency Priority - Project Title / Description Total Budget

2008-2010

- 1 Construct - Belknap Classroom/Academic Building..... \$64,980,000**
 The 2007 Facility Condition and Space Study conducted by the Council on Postsecondary Education found that UofL has a current deficit of 26% in classroom space. By 2020, the study projected a deficit of 107,000 assignable square feet or an 81% deficit. Additional classroom space is an extremely high priority. This authorization will allow construction of a new 120,000 GSF inter-disciplinary classroom building. (C-O)
- 2 Renovate - Medical Dental Research Building, Phase IV..... \$22,748,000**
 This authorization will renovate approximately 85,544 gross square feet. The Medical Dental Research (MDR) Building is 42 years old and in need of major renovation to help the University of Louisville Health Sciences Center continue to meet its research mission. (C-PI)
- 3 Expand & Renovate - Dental School \$42,700,000**
 (GF - \$ 25,000,000; AB - \$13,700,000; RF - \$4,000,000)
 This authorization will allow the university to renovate approximately 92,000 gross square feet of the Dental School and construct a 14,300 gross square foot addition to create state-of-the-art operatories, refurbish waiting areas, and associated laboratory/examining areas. Also including will be a total renewal of the building's infrastructure including electrical, mechanical, plumbing and data network upgrades. (C-PI)
- 4 Purchase - Land Near Belknap Campus South \$30,000,000**
 (GF - \$13,000,000; OT-P - \$17,000,000)
 Since 1984, the Belknap Master Plan has included approximately 32 acres immediately south of the campus along the CSX and Norfolk Southern rail line. There is a time limited opportunity to acquire this essential property for campus expansion. We are looking to State and Metro resources to complete this transaction. (C-O)
- 5 Renovate - Capital Renewal Pool \$28,265,000**
 The Capital Renewal Pool will allow the university to address approximately ten types of projects: roof replacement, windows, exterior building upgrades, interior building upgrades, walking surfaces, electrical upgrades, data collection and security panels, emergency generators, mechanical upgrades, and carpet/floor tile. (C-PI)
- 6 Renovate - Life Sciences Building \$30,024,000**
 This authorization will allow renovation to correct deficiencies in the building ventilation system. Existing labs will be improved and new labs will be created in the lower level of the Life Sciences Building. In addition to the ventilation system, new lighting, new ceilings, and other repairs will be made. (C-PI)
- 7 Renovate - College of Education Building \$24,200,000**
 This renovation project will include exterior restoration and refurbishing of classrooms, department and faculty offices for the College of Education and Human Development (CEHD). The project will include a total interior refurbishing of approximately 95,479 gross square feet with a primary focus on teaching teachers to integrate modern media and interactive learning into today's curriculum. (C-PI)

<u>Agency Priority - Project Title / Description</u>	<u>Total Budget</u>
8 Renovate - Natural Science Building	\$18,090,000
This renovation project will refurbish classrooms, department and faculty offices for Mathematics, Physics, and Geology. The project will include renovation of the exterior and a total interior refurbishing of approximately 87,410 gross square feet in the Natural Science Building. (C-PI)	
9 Construct - Instructional Facility in HSC Quad	\$16,900,000
This project will create new much needed instructional space on the HSC campus in the current courtyard surrounded by the Medical School Tower, Kornhauser Library and the existing HSC Instructional Building. (C-O)	
10 Construct - Physical Plant Space in HSC Garage	\$2,027,000
This project would create new space for the Physical Plant department at the HSC campus to consolidate offices and operations that are currently spread throughout the campus. (C-O)	
11 Construct - HSC Research Facility V	\$154,000,000
This authorization will allow the construction of a 292,000 GSF facility, which is needed to further the research capacity of the Health Sciences Center. The continued recruiting of new investigators requires new research space to meet the future demands. This facility will be located on Hancock Street between Abraham Flexner Way and Chestnut Street and will provide vital research space for the research program in oncology. (C-O)	
12 Purchase - Land Support Service (Northeast Quad)	\$10,000,000
This project will allow the university to continue to acquire property consistent with its land use plan to deal with the developmental and expansion needs of Belknap Campus. The property includes five buildings on 4.762 acres of land. The university is currently leasing the land and buildings. The land will be used to consolidate the support services programs of the university to the northeast quadrant of campus. (C-O)	
13 Purchase - Land Near HSC - Parcel II	\$6,034,000
This authorization will be used to purchase property adjacent to the Health Sciences Campus within the current Louisville Medical Center. The university will purchase, should the land become available, a 2.8-acre parcel of land having 11,275 SF of commercial improvements and a 2,790 SF residence. The university will use the existing improvements prior to planned future redevelopment to accommodate campus expansion. (C-O)	
14 Purchase - Land Near Papa John's Stadium	\$7,000,000
This authorization will allow the Athletic Department to purchase property in the vicinity of Papa John's Cardinal Stadium as it becomes available. (C-O)	
15 Purchase Computer Processing System	\$4,000,000
Computer processing systems to provide computing resources in support of administration, instruction and research for faculty, staff, and students. This computer processing system will be an upgrade/replacement to existing enterprise and client server systems dependent upon the technology available and service needs in the respective fiscal year. Necessary to meet the increased computing needs of the university faculty, staff, student, and administrators. (IT)	
16 Purchase Digital Communications System	\$3,000,000
Equipment for digital transmission of data, voice, and video. To upgrade and enhance the university communications network. It meets the demand for integrated voice, data, and video technology on both a local and state-wide basis. The Digital Communication System will be an upgrade/replacement to existing enterprise and communications network infrastructure systems dependent upon the technology available and service needs in the respective fiscal	

Agency Priority - Project Title / Description

Total Budget

year. The systems are necessary to meet the increased communications needs of the university faculty, staff, student, and administrators. (IT)

- 17 Purchase Enterprise Application System \$2,000,000**
Enterprise software applications to support University operations. Enterprise application will provide academic and institutional support in the delivery of instruction and research. (IT)
- 18 Purchase - Equipment Replacement Research & Instructional..... \$15,000,000**
For the University of Louisville to attain its goal of becoming a pre-eminent metropolitan research University, it is essential that the university have the ability to replace outdated research and instructional equipment. The University must acquire new equipment as part of the infrastructure necessary to pursue programs of research that will benefit students, staff, faculty, the university community as well as the Commonwealth of Kentucky. (EQ)
- 19 Purchase Networking System \$4,000,000**
Networking system to provide high speed integrated voice, data, and video access for campus network WAN and access to external networks. The Networking System will be an upgrade/replacement to existing enterprise and network infrastructure systems dependent upon the technology available and service needs in the respective fiscal year. Systems necessary to meet the increased networking needs of the university faculty, staff, student and administrators. (IT)
- 20 Purchase Storage System..... \$2,000,000**
Computer processing data storage systems to accommodate storage of research, instruction, and institutional data records and databases. This computer storage system will be an upgrade/replacement to existing storage systems, dependent upon the technology available and data volume necessary to meet the increased computing needs of the university faculty, staff, student, and administrators. (IT)

2010-2012

Construct - Belknap Academic Building II \$60,030,000
This authorization will allow construction of a new 120,000 GSF inter-disciplinary classroom/research facility on the Belknap Campus. The new building will provide approximately 30,000 GSF of research expansion space, including additional laboratories, laboratory support areas and principal investigators' office space for the history, languages, humanities and other liberal arts departments. The remaining 90,000 GSF will be designed to include needed high-technology classrooms and student laboratories to facilitate instruction for both undergraduate/graduate students in the liberal arts. (C-O)

Construct - Shelby Campus Research Building \$56,220,000
This authorization will allow construction of a new 90,000 GSF bio-medical research facility on the Shelby Campus. The new building will be dedicated totally to needed research expansion space, including additional laboratories, laboratory support areas and principal investigators' office space in support of the development of Shelby Campus as a science & technology park and for the Center for Predictive Medicine currently under construction on the campus. (C-O)

Renovate - Capital Renewal Pool (2010-2012) \$25,912,000
The Capital Renewal Pool will allow the university to address approximately ten types of projects: roof replacement, windows, exterior building upgrades, interior building upgrades, walking surfaces, electrical upgrades, data collection and security panels, emergency generators, mechanical upgrades, and carpet/floor tile. (C-PI)

Agency Priority - Project Title / Description

Total Budget

2012-2014

Construct - Belknap Research Building II \$83,460,000

This authorization will allow construction of a new 120,000 GSF inter-disciplinary research facility on the Belknap Campus. The new building, a companion building to Belknap Research I completed in 2006, will be dedicated totally to needed research expansion space, including additional laboratories, laboratory support areas and principal investigators' office space for the chemistry, biology, and physics departments along with additional research space for the engineering school. The facility would supplement and expand existing research facilities in the areas of nano-technology, mems, bio-mems and structural biology. (C-O)

Renovate - Capital Renewal Pool (2012-2014) \$14,351,000

The Capital Renewal Pool will allow the university to address approximately ten types of projects: roof replacement, windows, exterior building upgrades, interior building upgrades, walking surfaces, electrical upgrades, data collection and security panels, emergency generators, mechanical upgrades, and carpet/floor tile. (C-PI)

UNIVERSITY OF LOUISVILLE

Projects involving Agency Bonds*

Agency Priority - Project Title / Description Total Budget

2008-2010

- 1 Expand & Renovate - Dental School \$42,700,000**
(AB - \$13,700,000; GF - \$25,000,000; RF - \$4,000,000)
This authorization will allow the university to renovate approximately 92,000 gross square feet of the Dental School and construct a 14,300 gross square foot addition to create state-of-the-art operatories, refurbish waiting areas, and associated laboratory/examining areas. Also including will be a total renewal of the building's infrastructure including electrical, mechanical, plumbing and data network upgrades. (C-PI)
- 2 Construct - HSC Research Facility III - Addition..... \$15,800,000**
This is a request for authorization to revise the funding sources for the HSC Research Facility III which is currently in construction. The project was originally authorized in the 2004-2006 biennium on HB267 for \$65,200,000, including \$39,150,000 in state bonds, \$15,800,000 in restricted funds, and \$10,250,000 in federal funds. The university was unable to secure the proposed restricted funds and is requesting this authorization to replace that shortfall with \$15,800,000 in agency bonds. (C-O)
- 3 Construct - HSC Parking Structure II \$30,700,000**
This authorization will allow the construction of a 440,000 gross square foot parking facility with 1,712 parking spaces. The new structure will be along Hancock Street between Muhammad Ali Boulevard and Flexner Way. A total of 220 existing surface parking spaces are being displaced by new construction. (C-O)
- 4 Expand - Student Activities Center \$9,959,640**
This project would allow for construction of a 30,000 GSF addition to the existing Swain Student Activities Center. The addition will create much needed student meeting space, conference space and construction of a new kitchen/food preparation area. (C-O)
- 5 Construct - Westside Dining Facility \$5,370,000**
This authorization would allow the university to construct a 15,000 gross square foot student dining facility at the University Towers Apartments site on the west side of Belknap Campus. (C-O)
- 6 Construct - Residence Hall, 500 Bed \$40,130,000**
This authorization will allow the University to construct a new 500 bed residence hall on the Belknap Campus. The new hall would also provide approximately 15,000 SF for development of a west campus food service and approximately 5,000 SF for the relocation of the Residence Life administration office from Stevenson Hall. (C-O)
- 7 Construct - HSC Parking Structure III \$38,735,000**
This project will construct a third parking garage on the HSC campus with 2100 spaces at Chestnut & Clay Streets. (C-O)
- 8 Purchase - Central Station Property \$9,000,000**
This authorization would allow the university to purchase the "Central Station" property at the corner of 3rd Street and Central Avenue, which includes a building of approximately 90,000 gross square feet and associated parking area. The property is adjacent to Patterson Stadium and Papa John's Cardinal Stadium. (C-O)

Agency Priority - Project Title / Description

Total Budget

2010-2012

None

2012-2014

None

UNIVERSITY OF LOUISVILLE

Projects NOT Involving the General Fund, Road Fund, or Agency Bonds*

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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2008-2010

Construct - Athletic Academic Support Facility..... \$5,000,000 OT-P
 This project is to construct a 20,000 GSF facility to house the university's athletic academic support function. (C-O)

Construct - Boathouse for Women's Rowing Program \$3,370,000RF
 This authorization will allow construction of a two story boathouse (14,654 gross sq. ft.) to be built on leased land (park property) adjacent to the Ohio River. The lower floor will be used for boat and equipment storage and the upper level (above flood plane) will include offices, meeting space, exercise and multipurpose locker rooms with showers, and a balcony overlooking the river. (C-O)

Construct - Complete Two Shelled Floors of CII..... \$7,526,000RF
 This project will complete the two floors of the Cardiovascular Innovation Institute which were shelled during original construction due to lack of funding. This will provide additional wet lab space, associated lab support space and associated faculty and staff offices. This project will also complete additional staff offices and the seminar/training spaces. (C-O)

Construct - Diversity Center for Excellence \$6,728,000 OT-P
 This project calls for the construction of a new 23,100 square feet facility that will house the current Multicultural Center, Office of Minority Affairs and the Upward Bound program (and other TRIO programs pending federal funding). The multicultural programs and services under the auspices of the Vice Provost for Diversity are housed in three different buildings. (C-O)

Construct - Executive MBA/Business Program \$20,930,000RF
 This authorization will allow construction of a new 50,000 GSF Executive /Business studies facility in downtown Louisville. The new building will provide classroom and interactive instructional spaces for experienced professional and graduate level students seeking advanced degrees while maintaining their current professional careers. (C-O)

Construct - Fitness & Health Institute \$14,707,000RF
 This project will construct a free standing 45,000 gross square foot facility on Belknap Campus to host health and wellness programs for the University community. The institute will provide facilities for the following activities: 1) Physical education and recreation classes; 2) Health and nutrition education and counseling; 3) Proper use and benefits of modern recreational equipment; 4) Diagnosis and rehabilitation of sports-related injuries; 5) Instruction in diet planning and healthful food preparation. (C-O)

Construct-Health Sciences Center Steam/Chilled Water Plant II . \$29,668,000RF
 This project will construct a 30,000 gross square foot steam and chilled water plant to serve the HSC campus, including a 6,000-ton chiller and boilers with a capacity to produce 50,000 pounds of steam per hour (C-O)

Construct - Student Health Facility..... \$7,640,000RF
 This project will construct an addition to the existing Houchens Building located on the University's Belknap Campus. As envisioned, the addition will be a structure of three floors; two above grade and basement areas, this space will include a physician's office area, including exam / treatment rooms for student visits, a separate counseling office and campus postal service center. The completed facility will be connected via a pedestrian bridge to the existing campus

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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parking garage allowing it to serve a dynamic link to both student health and academic service centers to be housed in both the addition and existing Houchens Building. (C-O)

Construct - Utilities, Remove Overhead Lines \$3,673,000RF
 This project will install six distribution circuits and one 96 KY distribution circuit underground along Floyd Street from LG&E's Floyd Street Substation to a point south of Eastern Parkway (approximately 3,000 feet). (C-O)

Expand - Ambulatory Care Building Academic Addition \$60,000,000 OT-P
 This 198,005 gross square foot addition to the Ambulatory Care Building (ACB) will house most of the clinical departments for the School of Medicine and educational and administrative offices for the UofL Hospital. The School of Medicine has not built educational facilities since 1972 and the clinical departments' faculty numbers have more than doubled in the interim. This will allow University Medical Center, Inc. (lease UofL Hospital) to renovate the Ambulatory Care Center to become a more efficient and effective outpatient care center. (C-O)

Expand - College of Business for Equine Industry..... \$1,203,700RF
 The project will construct a 2,000 GSF addition to the College of Business to provide needed space for the Equine Industry program. The expansion study will include staff and faculty offices along with a small resource center. (C-O)

Expand - Papa John's Cardinal Stadium..... \$72,000,000 RF/OT-LTF
 The project will expand Papa John's Cardinal Stadium with addition of 45 private boxes including 810 box seats, construction of a 16,100 seat upper deck with access concourse, 2,400 additional lower deck seats in the NE/NW corners, and a "walk-around" concourse on the south side allowing access from new east side to existing west side upper decks. Additional construction includes access ramps, stair/elevator towers, concession, toilet and other support areas serving the new concourse. (C-O)

Expand & Renovate - Founders Union Building \$15,637,000RF
 The project will develop a 54,570 GSF Continuing Education, Professional Development and Conference Center on the University's Shelby Campus. The project includes renovation of 34,570 GSF and construction of a 20,000 GSF addition to the current Founders Union Building. (C-PI)

Expand & Renovate - Oppenheimer Hall..... \$10,655,000RF
 This project will involve the renovation of the existing 120 year old building (last renovated in 1955) and construction of an addition (new wing) to Oppenheimer Hall. The renovation of the 10,979 GSF facility will include restoration of the exterior (replacement of existing windows & doors and entrance portico) and interior refurbishment of classrooms and departmental / faculty offices along with modernization of building mechanical, lighting and electrical systems. This addition will add approximately 25,092 gross square feet to the existing facility. This will create adequate space to house, in one building, all faculty and staff with the Kent School of Social Work, currently housed in five different locations. (C-O)

Lease - Digital Output System..... \$1,000,000RF
 Network digital output system to provide high volume output for research, instructional, and institutional documents. This network digital output system will be an upgrade/replacement to existing network digital output systems. Dependent upon the technology available and volume necessary to meet the increased needs of the university faculty, staff, students, and administrators. (IT)

Purchase - Additive Microdeposition Machine..... \$825,000 FF
 This equipment (Additive Deposition Machine) will be used by the Rapid Prototyping Center of the Speed School to create prototypes with fine features. (EQ)

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
Purchase - Advanced Resist Processing System	\$200,000	FF
This equipment (Advanced Resist Processing System) will be used by the BioEngineering department of the Speed School to fabricate microelectronic devices. (EQ)		
Purchase - Artificial Turf - Practice Field Facility	\$865,000	RF
This authorization will purchase and install approximately 100,000 square feet of artificial turf to an outdoor practice field that can be used throughout the year. This facility will serve various programs. (C-O)		
Purchase - Atomic Force Microscope	\$200,000	FF
This equipment (Atomic Force Microscope) will be used by the BioEngineering department of the Speed School for investigation of nano-scale material interactions. (EQ)		
Purchase - Biological Material Deposition Machine	\$600,000	FF
This equipment (Biological Material Deposition Machine) will be used by the Rapid Prototyping Center of the Speed School to prepare prototypes for bio-medical applications. (EQ)		
Purchase - Cathodoluminescence System	\$230,000	FF
This equipment (Cathodoluminescence System) will be used by the Institute for Advanced Materials and Renewable Energy (IAM-RE) department of the Speed School for high resolution imaging and spectroscopy for materials research. (EQ)		
Purchase - Computational Cluster System	\$1,200,000	RF
This equipment will be used by the Computer Engineering / Computer Sciences Department of the Speed School. This is used for high performance computing for bioinformatics and computer forensics. (IT)		
Purchase - Computer Assisted Instructional Model	\$500,000	RF/OT-P
This equipment (Computer Assisted Instructional Model) will be used by the School of Medicine. This will assist in the teaching of Anatomical Sciences and Neurobiology courses. (IT)		
Purchase - Computer Systems for College of Education	\$600,000	RF
Equipment for college wide technology support for College of Education. (IT)		
Purchase - Computer Systems for Nursing School	\$200,000	RF
Computer processing systems to provide computing resources in support of the following areas: Administration, Education, Practice, and Research. (Includes Desktops, Laptops, peripherals, software, IT Desktop support, System printer and individual printers). (IT)		
Purchase - Confocal Microscope	\$236,682	FF
This equipment (Confocal Microscope) will be used by the BioEngineering department of the Speed School for imaging of biological specimens. (EQ)		
Purchase - Direct Metal Additive Fabrication Machine	\$650,000	FF
This equipment (Direct Metal Additive Fabrication Machine) will be used by the Rapid Prototyping Center of the Speed School for prototyping and direct digital manufacturing. (EQ)		
Purchase - Electronic Research Information System	\$2,420,000	RF
This is an on-going project designed to improve and increase access to electronic research information. This enables students, faculty, and researchers to remotely access information anytime, anywhere via the Internet by logging on to the UofL Libraries Web site. (IT)		

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
Purchase - Focused Ion Beam Microscope	\$800,000	FF
This equipment (Focused Ion Beam Microscope) will be used by the Institute for Advanced Materials and Renewable Energy(IAM-RE) department of the Speed School to characterize structure and composition in nanomaterials using high resolution imaging for materials research. (EQ)		
Purchase - Gas Chromatography Mass Spectrometer	\$500,000	RF
This equipment (Gas Chromatography Mass Spectrometer) will be used by the School of Public Health and Informational Sciences to measure the molecular and chemical compounds in biological fluids. (EQ)		
Purchase - Gas Injection System	\$240,000	FF
This equipment (Gas Injection System) will be used by the Institute for Advanced Materials and Renewable Energy (IAM-RE) department of the Speed School. It is used with a electron microscope system and modifies the environment surrounding the material being examined. This will be used to better understand and modify properties of materials at nano-scale. (EQ)		
Purchase - Gene Chip Scanner	\$219,000	FF
This equipment (Gene Chip Scanner) will be used by the BioEngineering department of the Speed School to characterize gene structure of bio-organisms. (EQ)		
Purchase - Hemodialysis Machine	\$634,000	RF
This equipment (Hemodialysis machine) will be used by the Kidney Disease Program. This will be used on patients with end stage renal disease. (EQ)		
Purchase - High Resolution Scanning Electron Microscope	\$347,600	RF
This equipment (High Resolution Scanning Electron Microscope with Backscatter Detector) will be used by the Anatomical Sciences and Neurobiology department. It is a scanning electron microscope which provides state-of-the-art three dimensional information on biological material. This equipment will replace an obsolete SEM and be a key component of a shared core facility within the basic and clinical science departments and expand the research capabilities. (EQ)		
Purchase - High Resolution Tandem Mass Spectrometer	\$1,500,000	FF
This equipment (High Resolution Tandem Mass Spectrometer) will be used by the Pharmacology and Toxicology department. It will be used for routine mass spectrometry and is also capable of acquiring direct sequence information. Such a powerful research tool will help researchers to explore the areas of cancer, cardiovascular disease, environmental toxicology and general biomedical sciences. It will be able to separate and analyze trace amounts of biomolecules. Information obtained from this spectrometer will also help to develop new drugs and biomarkers to diagnose and treat patients early in the course of diseases. (EQ)		
Purchase - Hysitron Nanoindenter	\$225,000	FF
This equipment (Hysitron Nanoindenter) will be used in the Speed School by the Institute for Advanced Materials and Renewable Energy (IAM-RE) Department to measure mechanical properties of materials at nano-scale. (EQ)		
Purchase - Intermediate Voltage Transmission Elect. Microscope ..	\$665,500	RF
This equipment (Intermediate Voltage Transmission Electron Microscope) will be used by the Anatomical Sciences and Neurobiology department. It is used to complete high level resolution studies of whole cells. This equipment will extend the capabilities of the laboratory and will be a key component of this shared core facility within the basic and clinical science departments (EQ)		

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
Purchase - Ion Milling System.....	\$500,000	FF
This equipment (Ion Milling System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School to prepare thin specimens of materials for high resolution imaging. (EQ)		
Purchase - Land Near HSC - Parcel I.....	\$34,246,000	OT-P
This project will purchase property adjacent to the Health Sciences Campus. University of Louisville will purchase, should it become available, 3.38 acres that currently have a 106,428 gross square foot office building. The existing building will house offices for faculty and staff in the School of Medicine. (C-PI)		
Purchase - Laser Jet Cutting System.....	\$750,000	FF
This equipment (Laser Jet Cutting System) will be used by the BioEngineering department of the Speed School for precision cutting of materials and biological specimens. (EQ)		
Purchase - Leica TCS SP5 Confocal Microscope	\$228,462	RF/FF
This equipment (Leica TCS SP5 Confocal Microscope) will be used by the Gheens Center on Aging. It will have the ability to determine the interaction between two proteins in live-cells and assay how these interactions functionally determine the wound healing competency. This equipment will allow live-cell assays which is a necessary step leading to diagnostic and therapeutic discoveries. (EQ)		
Purchase - Library Chairs and Tables.....	\$200,000	RF
A number of existing tables and chairs in Ekstrom, Art, Kornhauser, and Music libraries and the University Archives & Records Center are now between 30 - 35 years old and are in desperate need of replacement. (EQ)		
Purchase - Linear Ion Trap Mass Spectrometer.....	\$486,000	FF
This equipment (Linear Ion Trap Mass Spectrometer) will be used by the Pharmacology and Toxicology department. This equipment gives the ability to separate and analyze trace amounts of DNA which is required for biomedical research in the areas of cancer and environmental toxicology, (EQ)		
Purchase - Live Cell Intracellular Nanoprobe Station.....	\$400,000	FF
This equipment (Live Cell Intracellular Nanoprobe Station) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School to characterize and analyze cellular behavior for biomedical applications (EQ)		
Purchase - Low Pressure Chemical Vapor Deposition	\$1,000,000	FF
This equipment (Low pressure Chemical Vapor Deposition and Low Temperature Oxide System) will be used by the Electrical and Computer Engineering (ECE) Department of the Speed School to prepare microelectronic devices. (EQ)		
Purchase - Magnetic Resonance Imaging Equipment.....	\$2,500,000	FF
This equipment (Magnetic Resonance Imaging Machine) will be used by the Electrical and Computer Engineering (ECE) department to perform research on imaging methods. (EQ)		
Purchase - Magnetic Resonance Imaging System.....	\$3,000,000	FF
This equipment (Magnetic Resonance Imaging System) will be used by the BioEngineering department of the Speed School to perform research on imaging methods for disease detection (EQ)		

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
Purchase - Magnetoencephalography System	\$2,100,000	RF/FF
This equipment (Magnetoencephalography system Magnes 2500WH (4-D Neuroimaging Inc.) will be used by the Psychiatry & Behavioral Sciences department. It is a 148 channel magnetoencephalography (MEG) system with built-in 32 channel electroencephalograph for diagnostic and clinical research. The MEG system will significantly increase neuroimaging capabilities. This system will be shared with researchers from neurology, bioengineering and other departments within the university. (EQ)		
Purchase - Magnetron Sputtering System	\$500,000	FF
This equipment (Magnatron Sputtering System) will be used by the BioEngineering department of the Speed School to apply thin films of materials for advanced sensors and devices. (EQ)		
Purchase - Multi-Head Sputtering System	\$350,000	FF
This equipment (Multi-Head Sputtering System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School to deposit thin coatings of metals and ceramics for advanced sensors and devices. (EQ)		
Purchase - Olympus FV1000 Confocal	\$344,876	RF
This equipment (Olympus FV1000 Confocal Microscope) will be used by the Anatomical Sciences and Neurobiology department. It will utilize three channel laser technology to analyze samples at the molecular and cellular level. This equipment will advance the capabilities of the laboratory. (EQ)		
Purchase - PCs, Printers, Scanners for Libraries	\$635,500	RF/OT-P
Computer processing system to provide computing resources in support of administration, instruction, and research for faculty, staff and students. The University Libraries currently have more than 600 PCs and laptops. In order to continue its service of providing up-to-date technology to faculty and students, worn out and outdated PCs and laptops need to be replaced continuously. This is an on-going effort. (IT)		
Purchase - Plastic Deposition Machine	\$750,000	FF
This equipment (Large Frame Plastic Deposition Machine) will be used by the Rapid Prototyping Center of the Speed School for prototyping and direct digital manufacturing. (EQ)		
Purchase - Plastic Sintering Machine	\$900,000	FF
This equipment (Large Plastic Sintering Machine) will be used by the Rapid Prototyping Center of the Speed School for prototyping and direct digital manufacturing. (EQ)		
Purchase - Positron Emission Tomography System	\$2,500,000	FF
This equipment (Positron Emission Tomography / Computed Tomography System) will be used by the BioEngineering department of the Speed School to perform research on imaging methods for disease detection. (EQ)		
Purchase - Reactive Ion Etching System	\$250,000	FF
This equipment (Reactive Ion Etching System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School. This chamber will attach to existing Deep Reactive Ion Etch systems to machine high aspect ration structures in glass. Will be used to create microelectronic microstructures. (EQ)		
Purchase - Robotic Cranes (2) for Automated Book	\$1,995,000	RF
These two robotic cranes are in addition to the two robotic cranes recently installed in the New Wing of the Ekstrom Library. This will complete the automated book storage and retrieval system of the library. This system will provide a highly cost effective use of floor space, storing 1.2 million books, journals, manuscripts, etc., in a space of only 8,000 NSF. This system will provide an		

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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efficient and systematic storage and retrieval of library materials in a temperature-controlled environment. Library materials contained in this on-site storage facility can be browsed electronically via Minerva, the University Libraries' on-line catalog. (EQ)

Purchase - Robotic Telescope System \$1,000,000 FF
 Equipment and software to implement a NASA funded robotic telescope and visualization system to support research and instruction in astronomy and space science education with UofL Dept. of Physics, NKU, and University of Southern Queensland. (IT)

Purchase - Software for Kidney Disease Program..... \$325,000RF
 Medical Information System for patient charting and record keeping, that may include a billing component, to be used by the university's Kidney Disease Program. (IT)

Purchase - Spray Develop/Etch System \$250,000 FF
 This equipment (Spray Develop/Etch System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School for microelectronics research. (EQ)

Purchase - Temperature & Humidity Control Systems (4) \$220,000RF
 Four Temperature and humidity control systems (i.e. Liebert Units) needed to replace existing aging (25+ years)in Ekstrom Library and the Art Library and to add a unit to the Kornhauser Library to preserve valuable rare books, manuscripts, and photographs. (EQ)

Purchase - TeraHertz Spectroscopy..... \$350,000 FF
 This equipment (TeraHertz Spectroscopy) will be used by the Institute for Advanced Materials and Renewable Energy (IAM-RE) department of the Speed School to characterize materials. (EQ)

Purchase - Transmission Electron Microscope \$1,500,000 FF
 This equipment (Transmission Electron Microscope) will be used by the Institute for Advanced Materials and Renewable Energy (IAM-RE) department of the Speed School for high resolution imaging for materials research. This microscope will characterize structure and composition in nanomaterials. (EQ)

Purchase - Ultra Fast Spectroscopy Facility \$600,000 FF
 This equipment (Ultra Fast Spectroscopy Facility) will be used by the Institute for Advanced Materials and Renewable Energy (IAM-RE) department of the Speed School to characterize materials. (EQ)

Purchase - Visualization System (Planetarium) \$1,900,000RF
 The projection system and related components of the Rausch Planetarium are obsolete and the use/utility of the entire faculty depends on the replacement of this system. The shows, learning materials, are no long made for this equipment and it is prohibitively expensive both to maintain the current system and create content. (IT)

Renovate - Burhans Hall \$14,140,000RF
 This project will renovate 72,700 GSF in Burhans Hall located on the Shelby Campus. The building was originally constructed as a classroom and administration building. It was designed in 1960 and needs major system renewal and renovation to complement its emerging role as one of two major university facilities in the Shelby Campus Science and Technology Park. (C-PI)

Renovate - Chemistry Fume Hood Redesign, Phase II..... \$13,320,000RF
 This project will address the second phase of life/safety improvements to the ventilation system in the Chemistry Building, including: replacement of 105 existing fume hoods, installation of an additional 40 hoods for organic laboratories, replacement of the two remaining air handling units,

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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installation of a building VAV control system, energy recovery system, and related ductwork improvements. Upon completion of this work, the building ventilation will have been completely refurbished. (C-PI)

Renovate - Code Improvement Pool..... \$3,670,000RF

The code improvement project pool will allow the university to address seven different areas, which are: data collection panel, security panels, fire alarm systems, elevators/escalators, emergency generators, sprinkler systems, environmental health and safety projects. The project is necessary to bring university-owned buildings into compliance with current federal and state life and fire safety building codes. (C-PI)

Renovate - Ekstrom Library..... \$28,838,000RF

The Ekstrom Library occupies a 257,000 SF building and serves as the main academic library. This renovation is needed to address the requirements of a high level research institution and further the development in accordance with the university academic and research mandates. Infrastructures for distribution of electrical and data need to be updated to accommodate use of electric journals, media and internet access. The project will include refurbishing, updating and upgrades to the entire facility along with major renewal of building mechanical, electrical and lighting systems. (C-PI)

Renovate - Gross Anatomy Lab..... \$1,808,000RF

This project will renovate the University's 9000 square foot Gross Anatomy Lab in the HSC Instructional Building, including a complete replacement of the HVAC system, autopsy exhaust and electrical systems. (C-PI)

Renovate - Guaranteed Energy Savings \$4,600,000OT-LTF

This project will allow U of L to enter into an agreement with a Performance Contractor to reduce our energy usage. Energy savings will be used to pay for facility upgrades/modifications – this will apply to several campus buildings. (C-PI)

Renovate - Housing - Capital Renewal Pool \$3,920,000RF

The Capital Renewal Pool will allow the university to address approximately five types of projects: roof replacement, exterior building upgrades, interior building upgrades, mechanical upgrades and life/fire safety code improvements. (C-PI)

Renovate - J. B. Speed Building \$9,892,000RF

The project will include renovation of the exterior and a total interior renovation of 40,974 GSF J. B. Speed Building, the centerpiece structure of J.B. Speed School of Engineering. The building is a sixty-five year-old facility and has received only minimal renovation since original construction (1942). (C-PI)

Renovate - Kersey Library \$7,023,000RF

This project will involve the renovation and major refurbishing of the former Kersey Library Building. The 33,482 GSF building will be renovated to serve the expansion needs for instructional programs including computing laboratories and group learning facilities associated with the Speed Scientific School. Additional space will be renovated to accommodate needed faculty office and student service needs. Due to the building's construction prior to the widespread use of personal computers, modern teaching and instructional technologies and its former use as a library, the present facility is inadequate in terms of its data/voice, mechanical, electrical and lighting infrastructure to support these new programs. (C-PI)

Renovate - Kornhauser Library..... \$14,217,000RF

The Kornhauser Health Sciences Library is a 72,147 GSF - 37 year old facility, serving the research and academic needs of Medical, Dental, Nursing, Public Health and Informational

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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Science programs for graduate, doctoral and post-doctoral programs. The present facility was not envisioned to accommodate modern computer intensity learning and research technology. It is essential that the building receives total modernization, including replacement mechanical, electrical, voice/data systems along with being re-configured to meet the needs of new teaching procedures that stress group-based learning and problem solving in a technology rich environment. (C-PI)

Renovate - KY Lions Eye Research Institute..... \$13,230,000RF

This project will renovate the entire original portions (42,078 GSF) of the Kentucky Lions Eye Research Building, the building is 38 years old (1969) and in need of major renovation, modernization and renewal of building systems to continue its mission. (C-PI)

Renovate - Medical School Tower-55A, Phase I..... \$5,817,000RF

This authorization will renovate 18,652 gross square feet of laboratory, laboratory support, and research office space. The Medical School Tower Building (55A) was opened in 1972 to provide research and academic space for the School of Medicine's Basic Science Departments. Since that time, no significant renovations have taken place. With the changes in research and technology requirements, this project will allow the reconfiguration and updating of two floors of this facility to create more modern and functional research laboratories and associated support spaces. (C-PI)

Renovate - Research Resource Center Cage Wash Area \$1,984,000 RF/FF

This project will renovate cage wash area of Research Resource Center building and replace aging equipment and upgrade HVAC system. (C-PI)

Renovate - Shelby Campus Infrastructure..... \$10,050,000RF

The Shelby Campus infrastructure project will construct necessary site improvements needed for the future re-development of campus as a Science and Technology Park including:

- Major new entrance from Hurstbourne Parkway
- Realignment of current Shelbyville Road with Whittington Parkway
- Construction of new campus roadways (main and minor) to facilitate the future development
- Installation of site utilities infrastructure (storm sewer, sanitary, water, gas, electric, telephone, cable and fiber optic, along the new campus roadways.
- Landscape buffer with adjoining residential neighborhood (C-PI)

Utility Distribution - South Belknap Campus..... \$10,370,000RF

The project will extend the Belknap Campus utility distribution system by 1700 lineal feet providing enhanced Steam/Chilled Water, Electrical, Voice and Data services to the areas south of Eastern Parkway. These improvements will complete a South Campus Distribution Loop, ensuring dependable/maintainable utility services to all existing buildings in the Speed Engineering School complex and provide readily available primary utilities for future growth and development of the approximately 12 acres south of Eastern Parkway. (C-O)

2010-2012

Expand - Chilled Water and Electrical Service Upgrade \$5,236,000RF

Expand the chiller plant and electrical room approximately 9,744 sq. ft. and increase main electrical feed to campus. (C-PI)

Expand - Henry Vogt Building..... \$14,837,410RF

The project would allow for construction of a 25,800 GSF addition to the existing Henry Vogt building serving the academic and research needs of the Speed Mechanical Engineering Department. The new space will provide needed space for teaching and research for robotics,

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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automated manufacturing rapid prototyping along with teaching labs for advanced product design and development. (C-O)

Renovate - Bingham Humanities Building \$30,784,000RF

This renovation project will include exterior restoration and refurbishing of classrooms, department and faculty offices for the College of Arts & Sciences. The project will include a total interior refurbishing of approximately 109,554 gross square feet in the Bingham Humanities Building. (C-PI)

Renovate - Ford Hall..... \$3,944,000RF

The project will include restoration of the exterior and a total interior renovation of the 12,345 GSF architecturally significant Ford Hall building on the main campus quadrangle. The building is one hundred and thirty-two years old and has received only minimal renovation since a partial modernization was done in 1994. This renovation will include historical restoration of the exterior including replacement of existing windows, door systems, entrance and cornice features. Interior renovation will refurbish classrooms and faculty offices. Additional work will include modernization of building mechanical, lighting and electrical systems. The renovation of Ford Hall will increase the useful life of this facility and enhance the Political Science programs housed within. (C-PI)

Renovate - Gardiner Hall..... \$7,340,000RF

The project will include restoration of the exterior and a total interior renovation of the 24,766 GSF architecturally significant Gardiner Hall building on the main campus quadrangle. The building is one hundred and thirty-five years old and has received only minimal renovation since its acquisition by the University in 1923. This renovation will include historical restoration of the exterior including replacement of existing windows, door systems, entrance and cornice features. Interior renovation will refurbish classrooms and faculty offices. Additional work will include modernization of building mechanical, lighting and electrical systems. The renovation of Gardiner Hall will increase the useful life of this facility and enhance the Arts and Sciences programs housed within. (C-PI)

Renovate - Gottschalk Hall \$3,370,000RF

The project will include restoration of the exterior and a total interior renovation of the 10,842 GSF architecturally significant Gottschalk Hall building on the main campus quadrangle. The building is one hundred and eighteen years old and has received only minimal renovation since its last modernization in 1953. This renovation will include historical restoration of the exterior including replacement of existing windows, door systems, entrance and cornice features. Interior renovation will refurbish classrooms and faculty offices. Additional work will include modernization of building mechanical, lighting and electrical systems. The renovation of Gottschalk Hall will increase the useful life of this facility and enhance the Arts and Sciences programs housed within. (C-PI)

Renovate - Guaranteed Energy Savings \$4,600,000OT-LTF

This project will allow U of L to enter into an agreement with a Performance Contractor to reduce our energy usage. Energy savings will be used to pay for facility upgrades/modifications – this will apply to several campus buildings. (C-O)

Renovate - Jouett Hall..... \$3,003,000RF

The project will include restoration of the exterior and a total interior renovation of 9,591 GSF architecturally significant Jouett Hall building on Belknap Campus. The building is one hundred and nineteen years old and has received only minimal renovation since its last modernization in the early 1970's. This renovation will include historical restoration of the exterior including replacement of existing windows, door systems, entrance and cornice features. Interior renovation will refurbish offices and support spaces serving the offices of Senior Vice President for Research including Office of Grants Management, Office of Sponsored Programs

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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Development, Research Integrity Program and Office of Technology Development. Additional work will include modernization of building mechanical, lighting and electrical systems. The renovation of Jouett Hall will increase the useful life of this facility and enhance the programs housed within. (C-PI)

Renovate - Law School \$18,985,000RF

Louis D. Brandeis School of Law occupies a total of 144,186 GSF and is comprised of three attached buildings: the original building constructed in 1939; west addition in 1974; and east addition in 1979. Little significant building renovation or modernization has occurred since completion of the 1979 addition. This project will include a total building renovation to create a more efficient facility. Building system improvements will include modernization of voice/data, mechanical, electrical and lighting systems along with exterior envelope renovation and replacement of windows and entrance doors. (C-PI)

Renovate - Medical School Tower-55A, Phase II..... \$6,413,000RF

This authorization will renovate 18,652 gross square feet of laboratory, laboratory support, and research office space. The Medical School Tower Building (55A) was opened in 1972 to provide research and academic space for the School of Medicine's Basic Science Departments. Since that time, no significant renovations have taken place. With the changes in research and technology requirements, this project will allow the reconfiguration and updating of two floors of this facility to create more modern and functional research laboratories and associated support spaces. (C-PI)

Renovate - Miller Hall \$17,369,000RF

This authorization will allow the University to renovate approximately 66,000 SF of space currently used as a dormitory and convert to office space. The 41-year old facility is in need of major renewal for building systems (HVAC, plumbing, voice/data, electrical, roof and window replacement). (C-PI)

Renovate - Sackett Hall..... \$7,727,000RF

This renovation project will include exterior restoration and refurbishing of classrooms, department and faculty offices for the Mechanical Engineering Department. The project will include a total interior refurbishing of approximately 24,119 gross square feet in Sackett Hall. (C-PI)

Renovate - Schneider Hall \$17,190,000RF

This renovation project will include exterior restoration and refurbishing of classrooms, department and faculty offices for the Fine Arts Department. The project will include a total interior refurbishing of approximately 65,765 gross square feet in Schneider Hall. (C-PI)

Renovate - Stevenson Hall \$10,898,000RF

This authorization will allow the University to renovate approximately 40,000 SF of dormitory space in this existing facility and convert to offices. The 48-year old facility is in need of major renewal for building systems (HVAC, plumbing, voice/data, electrical, roof and window replacement). (C-PI)

Renovate - Student Activities Center \$57,247,360RF

This project would allow for a renovation and renewal of the existing Student Activities Center including all areas other than those occupied by the Athletic Department and the addition requested in the 08-10 biennium. (C-PI)

<u>Project Title / Description</u>	<u>Total Budget</u>	<u>Source(s)</u>
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Renovate - Threlkeld Hall.....	\$17,169,000	RF
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This authorization will allow the University to renovate approximately 65,300 SF of dormitory space and convert to offices. The 45-year old facility is in need of major renewal for building systems (HVAC, plumbing, voice/data, electrical, roof and window replacement). (C-PI)

2012-2014

Renovate - Guaranteed Energy Savings	\$4,600,000	OT-LTF
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This project will allow U of L to enter into an agreement with a Performance Contractor to reduce our energy usage. Energy savings will be used to pay for facility upgrades/modifications – this will apply to several campus buildings. (C-PI)

Renovate - Medical School Tower-55A, Phase III.....	\$7,045,000	RF
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This authorization will renovate 18,652 gross square feet of laboratory, laboratory support, and research office space. The Medical School Tower Building (55A) was opened in 1972 to provide research and academic space for the School of Medicine's Basic Science Departments. Since that time, no significant renovations have taken place. With the changes in research and technology requirements, this project will allow the reconfiguration and updating of two floors of this facility to create more modern and functional research laboratories and associated support spaces. (C-PI)

***Notes**

- Priority rankings were required to be assigned only to those projects involving the state General Fund (cash or bonds) or Road Fund proposed for 2008-10 and projects involving Agency Bonds proposed for any biennium; all other projects are listed in alphabetical order.
- The total budget reflects a single fund source unless otherwise indicated.
- Descriptions are from the "Brief Description and Justification" field of the agency's capital plan submission.
- Fund Sources: AB = Agency Bonds; FF = Federal Funds; GF = General Fund; RF = Restricted Funds; OT-P = Other Funds/Private; OT-LTF = Other/Long-Term Financing; TF = Road Fund.
- Project Type: C-PI = Construction to Protect Investment in Plant (maintenance/renovation); C-O = Construction-Other; IT = Information Technology; EQ = Equipment; GL = Grant/Loan Program.