

# CAPITAL FUNDING REQUEST

for the 2013 to 2015 BIENNIUM



UNIVERSITY OF ARKANSAS

March 19, 2012

**INSTITUTIONAL PRIORITY RANKING  
of 2013-2015 HIGHER EDUCATION BOND CAPITAL REQUESTS**

University of Arkansas, Fayetteville

| Rank         | Project Name                                       | Category             | Total Cost               | Other Funds | Total State Funding Requested |
|--------------|--|----------------------|--------------------------|-------------|-------------------------------|
| 1            | GENERAL USE CLASSROOM & TEACHING LAB BUILDING      | New                  | \$ 17,026,178            | \$ -        | \$ 17,026,178.00              |
| 2            | KIMPEL HALL  | Renovation           | \$ 22,105,721            | \$ -        | \$ 22,105,721.00              |
| 3            | ENGINEERING HALL - RESTORATION/AUDITORIUM ADD'N    | Restoration/Reno/Add | \$ 20,567,507            | \$ -        | \$ 20,567,507.00              |
| 4            | MEMORIAL HALL                                      | Restoration/Reno     | \$ 16,845,092            | \$ -        | \$ 16,845,092.00              |
| 5            | BUSINESS BUILDING - BUILDING SYSTEMS RENEWAL       | Renovation           | \$ 9,833,274             | \$ -        | \$ 9,833,274.00               |
| 6            | AGRICULTURE BUILDING                               | Restoration/Reno     | \$ 17,742,000            | \$ -        | \$ 17,742,000.00              |
| 7            | MULLINS LIBRARY                                    | Reno/Addition        | \$ 86,214,409            | \$ -        | \$ 86,214,409.00              |
| 8            | FINE ARTS BUILDING                                 | Restoration/Reno     | \$ 19,328,050            | \$ -        | \$ 19,328,050.00              |
| 9            | HUMAN ENVIRONMENTAL SCIENCES BUILDING              | Restoration/Reno     | \$ 9,599,400             | \$ -        | \$ 9,599,400.00               |
| 10           | MECHANICAL ENGINEERING - BLDG SYSTEMS RENEWAL      | Renovation           | \$ 4,879,550             | \$ -        | \$ 4,879,550.00               |
| 11           | CONCERT HALL at the FIELD HOUSE                    | Restoration/Reno     | \$ 16,061,970            | \$ -        | \$ 16,061,970.00              |
| 12           | NANOSCALE MAT SCI & ENG - 3rd FLR FITOUT & CLEANRM | New (Interior Only)  | \$ 15,836,977            | \$ -        | \$ 15,836,977.00              |
| <b>Total</b> |  |                      | <b>\$ 256,040,128.00</b> | <b>\$ -</b> | <b>\$ 256,040,128.00</b>      |



Dr. G. David Gearhart, Chancellor

# 1.

## **GENERAL USE CLASSROOM AND TEACHING LAB BUILDING NEW CONSTRUCTION**

### **Description of Project**

Campus administrators have identified the number of additional classrooms and teaching labs required to meet the educational needs of the expanding student population. This building, as proposed, would eliminate approximately 23-34% of the calculated deficit in classrooms and approximately 44-50% of the deficit in teaching labs at an enrollment level of 28,000 students.

The new *General Use Classroom and Teaching Lab Building* is being considered as a three- to four-story building to house 20-75 person classrooms, 20-30 seat wet/dry teaching labs, and a small number of faculty offices on a site just north of the Harmon Avenue Garage. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### **Pertinent Data**

|               |                       |
|---------------|-----------------------|
| Size:         | 65,000 sf             |
| Proposed Use: | Education and General |
| % Auxiliary:  | None                  |

### **Construction Schedule**

The estimated design and construction timeline is 22 months.  
Estimated project costs factor construction beginning September 2013.

### **Plans Completed to Date**

Site selection and a test fit of the program has been completed. No further study is anticipated until funding is obtained and a design team is hired.

### **History of Request**

This is the first time this project has appeared in the biennium request.

**GENERAL USE CLASSROOM AND TEACHING LAB BUILDING**

**Estimated Project Costs**

|                                      |                                    |    |            |                      |
|--------------------------------------|------------------------------------|----|------------|----------------------|
| A.                                   | Building Construction              |    | \$         | 9,750,000.00         |
| B.                                   | Built-in equipment                 |    | \$         | 942,500.00           |
| C.                                   | Architectural and Engineering Fees |    | \$         | 1,800,449.00         |
| D.                                   | Contingencies                      |    | \$         | 1,772,129.00         |
| E.                                   | Other Costs                        |    |            |                      |
|                                      | Advertising                        | \$ | 500.00     |                      |
|                                      | Land & Right-of-Way                | \$ | -          |                      |
|                                      | Surveys & Borings                  | \$ | 71,500.00  |                      |
|                                      | Site Improvements                  | \$ | 975,000.00 |                      |
|                                      | Utilities                          | \$ | 565,000.00 |                      |
|                                      | Parking Lots                       | \$ | 254,875.00 |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | -          |                      |
|                                      | <b>Total Other Costs</b>           |    | \$         | <b>1,866,875.00</b>  |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 894,225.00           |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>17,026,178.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ -                    | 0.00%            |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          | \$ -                    | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 17,026,178.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

# 2.

## **KIMPEL HALL RENOVATION**

### **Description of Project**

*Kimpel Hall* is composed of two wings: a classroom building connected at the elevators to an office tower. Originally called the Communications Center, the building was renamed in 1983 for Ben Drew Kimpel. Originally from Fort Smith, Kimpel was educated at Harvard University and at UNC Chapel Hill. He was professor of English at the University of Arkansas from 1952 to 1983, and was a widely respected scholar and linguist.

*Kimpel Hall* houses the departments of Communications, Drama, English, Foreign Languages, and Journalism. It is the most populated classroom building on campus, with 29,000 scheduled credit hours per semester. After nearly 40 years of heavy use, the building's systems, finishes, furnishings, and technology are in great need of refurbishment. In response, the University began to renovate the building in 2010 as funds became available. To date, two auditoria and 12 classrooms have been renovated, using facility renewal and stewardship funds. An additional five rooms, including the drama workroom and black box theater, will be renovated in the summer of 2012.

Funding this request would allow for asbestos abatement and modernization of the remainder of the building. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### **Pertinent Data**

|                    |                             |
|--------------------|-----------------------------|
| Historic Name:     | Communications Center       |
| Constructed:       | 1972, renamed 1983          |
| Style:             | Late Modernist              |
| Size:              | 134,245 sf                  |
| Current Use:       | Education and General       |
| Proposed Use:      | Education and General       |
| % Auxiliary:       | None                        |
| Replacement Costs: | Estimated at \$44.5 million |

### **Construction Schedule**

The estimated design and construction timeline is 28 months. Estimated project costs factor construction beginning May 2014.

### **Plans Completed to Date**

None.

### **History of Request**

This is the first time this project has appeared in the biennium request.

**KIMPEL HALL**

**Estimated Project Costs**

|                                      |                                    |    |              |                      |
|--------------------------------------|------------------------------------|----|--------------|----------------------|
| A.                                   | Building Construction              |    | \$           | 10,739,600.00        |
| B.                                   | Built-in equipment                 |    | \$           | 1,778,745.00         |
| C.                                   | Architectural and Engineering Fees |    | \$           | 2,337,145.00         |
| D.                                   | Contingencies                      |    | \$           | 2,746,855.00         |
| E.                                   | Other Costs                        |    |              |                      |
|                                      | Advertising                        | \$ | 500.00       |                      |
|                                      | Land & Right-of-Way                | \$ | -            |                      |
|                                      | Surveys & Borings                  | \$ | 80,550.00    |                      |
|                                      | Site Improvements                  | \$ | 2,174,770.00 |                      |
|                                      | Utilities                          | \$ | 33,561.00    |                      |
|                                      | Parking Lots                       | \$ | -            |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 791,000.00   |                      |
|                                      | Total Other Costs                  |    | \$           | 3,080,381.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$           | 1,422,995.00         |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>    | <b>22,105,721.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ -                    | 0.00%            |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          | \$ -                    | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 22,105,721.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:  
 There are no existing funds available for this project.

# 3.

## ENGINEERING HALL

RESTORATION, RENOVATION, and ADDITION for the College of Engineering

### Description of Project

*Engineering Hall* is part of the Collegiate Gothic architecture built at the UA from 1925-1940, and was listed on the National Register of Historic Places in 1992. Designed by Jamieson & Spearl, architects of the 1925 masterplan, the building embodies their vision for a dignified campus, tied to the long traditions of Oxford and Cambridge. The building is constructed of reinforced masonry and Batesville limestone ashlar with Bedford white limestone moldings. With one of the most well-designed facades of any of the 1920's campus buildings, including a rusticated plinth, Doric pilasters, and cartouches with the University seal, its high historical and architectural value calls for restoration. In particular, the inappropriate windows installed in an attempt to upgrade the building should be evaluated for replacement with historically-correct steel casement windows that meet current energy requirements. *Engineering Hall* is a Landmark contributing building to the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009.

The planned construction of additional engineering facilities across Dickson Street will necessitate reconfigured pedestrian crossings to increase safety. The new building(s) and crossings will refocus attention on the south façade of *Engineering Hall*, which is currently used mainly for loading and deliveries. Also contributing to this façade will be an addition to complete the missing west wing of the building, which could include a 200-300 seat classroom and teaching labs. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### Pertinent Data

|                    |  |
|--------------------|--|
| Constructed:       | 1927 with 1950 matching addition                     |
| Style:             | Collegiate Gothic / Classical Revival                |
| Size:              | 58,511 sf + 11,265 sf addition (3755 sf on 3 floors) |
| Current Use:       | General Education for College of Engineering         |
| Proposed Use:      | General Education for College of Engineering         |
| % Auxiliary:       | None   |
| Replacement Costs: | Estimated at \$29.4 million                          |

### Construction Schedule

The estimated design and construction timeline is 30 months. Estimated project costs factor construction beginning May 2015.

NARRATIVE

(CONTINUED)

**Plans Completed to Date**

The schematic design of a first floor renovation for biomedical engineering has been completed. This study would be revisited if a total building renovation and addition were possible.

**History of Request**

This is the fourth time this project has appeared in the biennium request.



**ENGINEERING HALL**

**Estimated Project Costs**

|                                      |                                    |    |            |                      |
|--------------------------------------|------------------------------------|----|------------|----------------------|
| A.                                   | Building Construction              |    | \$         | 12,309,890.00        |
| B.                                   | Built-in equipment                 |    | \$         | 751,418.00           |
| C.                                   | Architectural and Engineering Fees |    | \$         | 2,441,858.00         |
| D.                                   | Contingencies                      |    | \$         | 2,642,979.00         |
| E.                                   | Other Costs                        |    |            |                      |
|                                      | Advertising                        | \$ | 500.00     |                      |
|                                      | Land & Right-of-Way                |    |            |                      |
|                                      | Surveys & Borings                  | \$ | 76,754.00  |                      |
|                                      | Site Improvements                  | \$ | 359,388.00 |                      |
|                                      | Utilities                          | \$ | 549,776.00 |                      |
|                                      | Parking Lots                       |    |            |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 554,901.00 |                      |
|                                      | Total Other Costs                  |    | \$         | 1,541,319.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 880,043.00           |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>20,567,507.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ 20,567,507.00        | 100.00%          |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          |                         | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 20,567,507.00</b> | <b>100.00%</b>   |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

# 4.

## **MEMORIAL HALL** RESTORATION and RENOVATION

### **Description of Project**

*Memorial Hall* was built in 1940 as the university’s first student union. Funds raised from a \$2.00 student fee and an annual operating fee were used to match a PWA grant and loan. The three-story building, designed by Haralson & Mott of Fort Smith with Mann & Wanger of Little Rock, is a mix of Collegiate Gothic, Classical Revival, and Art Deco. The front entrance, flanked by two geometric towers, and the lobby and main stair most strongly exhibit Art Deco influences, while the monumental arched windows of the ballroom and the north arcade are clearly Classical Revival. In the mid-1970s, the building was significantly altered by the original architectural firm. The most disruptive change was the insertion of a mezzanine in the large double-height ballroom. Today, Memorial Hall houses administrative offices and classrooms/studios for the Psychology and Landscape Architecture programs and Air Force ROTC. The building was listed on the National Register of Historic Places in 1992.

*Memorial Hall* is a Landmark contributing building to the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009. Two partial exterior restoration projects have been funded through the Arkansas Natural and Cultural Resources Council (ANCRC). This project will completely restore and renovate the building interior, as well as complete the exterior restoration work not covered by the grants. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### **Pertinent Data**

|                    |  |
|--------------------|--|
| Historic Name:     | Student Union / Futrall Memorial Hall            |
| Constructed:       | 1940, renovated in 1947, 1949, and 1975          |
| Style:             | Collegiate Gothic / Classical Revival / Art Deco |
| Size:              | 59,750 sf  |
| Current Use:       | Education and General                            |
| Proposed Use:      | Education and General                            |
| % Auxiliary:       | None   |
| Replacement Costs: | Estimated at \$36.3 million                      |

### **Construction Schedule**

The estimated design and construction timeline is 30 months. Estimated project costs factor construction beginning May 2014.

### **Plans Completed to Date**

None.

### **History of Request**

This is the first time this project has appeared in the biennium request.

**MEMORIAL HALL**

**Estimated Project Costs**

|                                      |                                    |    |            |                      |
|--------------------------------------|------------------------------------|----|------------|----------------------|
| A.                                   | Building Construction              |    | \$         | 9,559,840.00         |
| B.                                   | Built-in equipment                 |    | \$         | 791,675.00           |
| C.                                   | Architectural and Engineering Fees |    | \$         | 2,027,235.00         |
| D.                                   | Contingencies                      |    | \$         | 2,113,055.00         |
| E.                                   | Other Costs                        |    |            |                      |
|                                      | Advertising                        | \$ | 500.00     |                      |
|                                      | Land & Right-of-Way                | \$ | -          |                      |
|                                      | Surveys & Borings                  | \$ | 35,580.00  |                      |
|                                      | Site Improvements                  | \$ | 967,935.00 |                      |
|                                      | Utilities                          | \$ | 14,937.00  |                      |
|                                      | Parking Lots                       | \$ | -          |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 366,400.00 |                      |
|                                      | Total Other Costs                  |    | \$         | 1,385,352.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 967,935.00           |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>16,845,092.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ -                    | 0.00%            |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          | \$ -                    | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 16,845,092.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

# 5.

## **BUSINESS BUILDING**

### RENOVATION for the Sam M. Walton College of Business

#### **Description of Project**

Formerly called the Business Administration Building, the *Business Building* was designed by Wittenberg, Delony & Davidson and completed in 1977, when students moved to the new building from Ozark Hall in the historic core of campus. The *Business Building* was constructed near Kimpel Hall (formerly the Communications Center) in the district now known as McIlroy Hill. The Sam M. Walton College of Business occupies three buildings in the district.

After more than 30 years in service, the *Business Building* and Kimpel Hall still account for a good percentage of the campus' instructional space. While the structure itself is in decent condition, the building systems and interiors have received hard use and are in need of renewal. The Sam M. Walton College of Business continues to grow, and some reconfiguration of the existing space is necessary to accommodate that growth. Undergraduate Programs staff have outgrown their areas, student organization space is limited, and additional solutions are needed. Washrooms should be brought to current code and ADA requirements, and finishes upgraded to today's standards. Perhaps most critical to the curriculum is the replacement of the routers and switches which control the flow of digital information in the College. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

#### **Pertinent Data**

|                    |                             |
|--------------------|-----------------------------|
| Constructed:       | 1977                        |
| Style:             | Late Modernist              |
| Size:              | 115,700                     |
| Current Use:       | Education and General       |
| Proposed Use:      | Education and General       |
| % Auxiliary:       | None                        |
| Replacement Costs: | Estimated at \$35.2 million |

#### **Construction Schedule**

The estimated design and construction timeline is 22 months.  
 Estimated project costs factor construction beginning May 2015.

#### **Plans Completed to Date**

None.

#### **History of Request**

This is the second time this project has appeared in the biennium request.

**BUSINESS BUILDING**

**Estimated Project Costs**

|                                      |                                    |    |            |                     |
|--------------------------------------|------------------------------------|----|------------|---------------------|
| A.                                   | Building Construction              |    | \$         | 6,981,100.00        |
| B.                                   | Built-in equipment                 |    | \$         | -                   |
| C.                                   | Architectural and Engineering Fees |    | \$         | 1,123,675.00        |
| D.                                   | Contingencies                      |    | \$         | 1,296,220.00        |
| E.                                   | Other Costs                        |    |            |                     |
|                                      | Advertising                        | \$ | 500.00     |                     |
|                                      | Land & Right-of-Way                |    |            |                     |
|                                      | Surveys & Borings                  | \$ | 69,373.00  |                     |
|                                      | Site Improvements                  | \$ | 86,716.00  |                     |
|                                      | Utilities                          | \$ | 28,905.00  |                     |
|                                      | Parking Lots                       |    |            |                     |
|                                      | Telephone/Remote Utility Fees      | \$ | 106,785.00 |                     |
|                                      | Total Other Costs                  |    | \$         | 292,279.00          |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 140,000.00          |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>9,833,274.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                 | Percent of Costs |
|----------------------|----------------------|------------------------|------------------|
| A.                   | State Funds          | \$ 9,833,274.00        | 100.00%          |
| B.                   | Federal Funds        | \$ -                   | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                   | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                   | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                   | 0.00%            |
| F.                   | Other Funds          |                        | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 9,833,274.00</b> | <b>100.00%</b>   |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

# 6.

## **AGRICULTURE BUILDING** RESTORATION and RENOVATION

### **Description of Project**

The *Agriculture Building* was designed by Jamieson & Spearl of St. Louis, Missouri with H. Ray Burks of Little Rock in the Collegiate Gothic style. The plan of the building is an “I” shape, with one wing longer than the other in anticipation of future construction based on the 1925 Plan. The three-story building was constructed with a reinforced-concrete frame and load-bearing clay-tile exterior walls faced with blue-grey Batesville limestone. Significant exterior features include a front entrance with classical aedicule framed by Gothic octagonal towers, pilasters at building corners, crenellated stone parapet, classical cornice, pronounced water table, plaques with high-relief sculptures of the university seal, etc. Changes to the building include the replacement of all original windows in 1993, the addition of a glass skywalk connecting to the Plant Sciences Building in 1978, and mechanical systems renovations in the early 1990s.

While structurally intact, the *Agriculture Building* requires modernization of its mechanical, electrical, and plumbing systems. The replacement windows, though energy-efficient, detract from the historic character of the building. In order to restore the historic appearance of this important campus building, new windows that meet the profile and fenestration patterns of the original will be evaluated for installation. The *Agriculture Building* is a Landmark contributing building to the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### **Pertinent Data**

|                    |                             |
|--------------------|-----------------------------|
| Constructed:       | 1927                        |
| Style:             | Collegiate Gothic           |
| Size:              | 52,415 sf                   |
| Current Use:       | Education and General       |
| Proposed Use:      | Education and General       |
| % Auxiliary:       | None                        |
| Replacement Costs: | Estimated at \$28.9 million |

### **Construction Schedule**

The estimated design and construction timeline is 30 months. Estimated project costs factor construction beginning May 2015.

### **Plans Completed to Date**

None.

### **History of Request**

This is the first time this project has appeared in the biennium request.

**AGRICULTURE BUILDING**

**Estimated Project Costs**

|                                      |                                    |    |            |                      |
|--------------------------------------|------------------------------------|----|------------|----------------------|
| A.                                   | Building Construction              |    | \$         | 10,483,000.00        |
| B.                                   | Built-in equipment                 |    | \$         | 695,000.00           |
| C.                                   | Architectural and Engineering Fees |    | \$         | 2,104,200.00         |
| D.                                   | Contingencies                      |    | \$         | 2,244,300.00         |
| E.                                   | Other Costs                        |    |            |                      |
|                                      | Advertising                        | \$ | 500.00     |                      |
|                                      | Land & Right-of-Way                | \$ | -          |                      |
|                                      | Surveys & Borings                  | \$ | 31,500.00  |                      |
|                                      | Site Improvements                  | \$ | 850,000.00 |                      |
|                                      | Utilities                          | \$ | 13,000.00  |                      |
|                                      | Parking Lots                       | \$ | -          |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 324,615.00 |                      |
|                                      | Total Other Costs                  |    | \$         | 1,219,615.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 995,885.00           |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>17,742,000.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ -                    | 0.00%            |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          | \$ -                    | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 17,742,000.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

# 7.

## MULLINS LIBRARY RENOVATION and ADDITION

### Description of Project

*Mullins Library* opened in 1968 in a building just west of Vol Walker Hall, the original home of the university library. Its construction was part of an expansion of the campus that occurred in the late sixties, which moved the focus of the University away from Old Main. The building was later named for David W. Mullins, president of the University from 1960 to 1974. Approximately 75,000 sf of the original building was remodeled in conjunction with the eastern addition in 1997. The remaining square footage is scheduled to be remodeled in this phase of construction.

Located in the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009, the Library is a central element of the University’s vision for academic excellence. A building expansion in the academic core of the campus will embody this vision and achieve this mission: *“To build for the University a collaborative and interdisciplinary community that nurtures and inspires student-centered learning, creativity, and engagement.”* This mission statement has guided decisions about program adjacencies and initial building concepts (see *Plans Completed to Date*, below.) As envisioned, the project will set a high standard for appealing and accessible space in which to strengthen the university community. The redesign will encourage students to take advantage of the Library’s resources from their earliest days on campus. A purpose-built space for public events will enhance library programming and will help meet campus needs for such space in the central campus. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### Pertinent Data

|                    |  |
|--------------------|--|
| Constructed:       | 1968   |
| Style:             | Brutalist  |
| Size:              | 13,200 sf ASRS and service passage + 21,040 sf perimeter captured by new building skin in front of the existing projecting bays = 34,240 sf of new space. Less 18,200 sf removed with reconfiguration of the atrium and double height space facing central quad for a total of 243,800 sf shown in the concept design. |
| Current Use:       | Library  |
| Proposed Use:      | Library uses, including training rooms, computer access areas, staff offices, work and study areas, compact and standard shelving, ASRS, and public seating.   |
| % Auxiliary:       | None   |
| Replacement Costs: | Estimated at \$93.4 million  |



(CONTINUED)

### **Construction Schedule**

The estimated design and construction timeline is 30-36 months. Estimated project costs factor construction beginning May 2014.

### **Plans Completed to Date**

The University hired a programming consultant to evaluate the existing building and to develop a full program for the Library that best serves the academic and strategic goals of the institution. The existing building analysis, detailed programming, preliminary design, and cost projections are complete.

### **Concept Design Narrative**

The proposed design solution will significantly improve both the appearance and the experience of *Mullins Library*. The first three floors of the 1966 Mullins original building (the 1991 addition being left largely untouched) will be clad in a new skin of both Arkansas and Indiana stone, in keeping with the desired campus material palette. The fourth floor, home of the more public zones in the library, is envisioned as a glass penthouse, set back from the building's edge by approximately 10 feet, and surrounded by roof gardens. This move also helps reduce the perceived scale of the library as it relates to the Central Quad and the neighboring Music and Fine Arts buildings to the south. The west side of the library, immediately accessible from the Central Quad, features a grand colonnade framing an expansive glass facade, showcasing the 24/7 facilities located directly inside. The colonnade recalls the existing one on the east side of the library, establishing a strong sense of visual harmony. The vast majority (95%) of the collections will be housed in either the basement automated storage and retrieval system (ASRS) or closed compact shelving on the first floor. The remaining 5% of the collections are in open, fixed shelving located on the fourth floor.

The central feature of the interior, the atrium, has been sized to allow an ample amount of natural light into the core of the building. Even the most embedded spaces within the library will have a strong sense of connection to the exterior environment. The atrium space itself is envisioned as a large room, lined with wood paneling to add a warm, organic quality and human scale befitting a library. The atrium's roof is specially shaped to effectively harvest and diffuse daylight from the south and north, and will provide a signature image of the library when approached from the Central Quad.

### **History of Request**

Library expansion in general has been needed for many years, and the 1997 expansion was only sufficient to accommodate approximately ten years of University growth. This is the sixth time this project has appeared in the biennium request.

**MULLINS LIBRARY**

**Estimated Project Costs**

|                                      |                                    |    |              |                      |
|--------------------------------------|------------------------------------|----|--------------|----------------------|
| A.                                   | Building Construction              |    | \$           | 67,330,000.00        |
| B.                                   | Built-in equipment                 |    | \$           | 835,403.00           |
| C.                                   | Architectural and Engineering Fees |    | \$           | 8,123,500.00         |
| D.                                   | Contingencies                      |    | \$           | 4,319,000.00         |
| E.                                   | Other Costs                        |    |              |                      |
|                                      | Advertising                        | \$ | 500.00       |                      |
|                                      | Land & Right-of-Way                |    |              |                      |
|                                      | Surveys & Borings                  | \$ | 484,704.00   |                      |
|                                      | Site Improvements                  | \$ | 599,200.00   |                      |
|                                      | Utilities                          | \$ | 262,002.00   |                      |
|                                      | Parking Lots                       |    |              |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 1,144,200.00 |                      |
|                                      | <b>Total Other Costs</b>           |    | \$           | <b>2,490,606.00</b>  |
| F.                                   | Movable Furniture and Equipment    |    | \$           | 3,115,900.00         |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>    | <b>86,214,409.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ 86,214,409.00        | 100.00%          |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          |                         | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 86,214,409.00</b> | <b>100.00%</b>   |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

## 8.

**FINE ARTS CENTER**  
RESTORATION and RENOVATION**Description of Project**

The *Fine Arts Center*, originally known as the Fine Arts Building, was designed by Edward Durell Stone of New York, NY with Haralson & Mott of Fort Smith. It was funded in part by \$1 million from the state. The building originally housed the fine and applied arts, architecture, dance, music, painting, sculpture, and drama.

The *Fine Arts Center* is currently at maximum capacity and many areas of focus have been cut in order to accommodate immediate needs. Printmaking and sculpture studios, technology areas, and graduate student studios, etc. are so outdated that departmental efforts to attract faculty and students are compromised. The basement of the building is not accessed by elevator or lift, so the photography lab cannot be accessed by handicapped students or faculty. In addition, shop space is confined, so power tools and equipment are being used in space that is undersized for the number of students. Electrical service is undersized, dust collection systems and spray booths are inadequate, and exhaust/ventilation/fresh air intake is problematic.

The International Style building, while a break with the architectural character of earlier campus buildings, continued the general arrangement, scale, and alignments laid out in the 1925 campus plan. The building is composed of wings of varying heights—one, two, and three stories—and has an asymmetrical plan with several main functions connected by an open, glass-walled gallery space. The structure is reinforced concrete with exterior walls of buff brick over block. (Interestingly, the original construction documents called for grey brick, which would have better matched the blue-grey Batesville limestone of earlier campus buildings.) The building has a flat, built-up roof with wide overhangs in several places. A thin concrete roof supported by round, Bauhaus-pink concrete columns forms a breezeway connecting the main entrance to the street. All of the building's doors and windows were originally slender steel units. While some of the steel awning windows remain on the studio wing, in other areas such as the gallery, the windows and doors have been replaced with thicker aluminum storefront systems. Many significant changes have been made to the building since its construction. While some of these changes were necessary to improve the function of the building, they obscured, and in some cases destroyed, the integrity of the original design.

A total building restoration and renovation will bring original details back to this significant campus building, while bringing teaching environments to safe and modern levels. The *Fine Arts Center* is a Landmark contributing building to the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

(CONTINUED)

**Pertinent Data**

|                    |                             |
|--------------------|-----------------------------|
| Historic Name:     | Fine Arts Building          |
| Constructed:       | 1951                        |
| Style:             | International Style         |
| Size:              | 116,915 sf                  |
| Current Use:       | Education and General       |
| Proposed Use:      | Education and General       |
| % Auxiliary:       | None                        |
| Replacement Costs: | Estimated at \$38.7 million |

**Construction Schedule**

The estimated design and construction timeline is 28 months.  
Estimated project costs factor construction beginning May 2015.

**Plans Completed to Date**

None.

**History of Request**

This is the first time this project has appeared in the biennium request.

**FINE ARTS CENTER**

**Estimated Project Costs**

|                                      |                                    |    |              |                      |
|--------------------------------------|------------------------------------|----|--------------|----------------------|
| A.                                   | Building Construction              |    | \$           | 9,353,200.00         |
| B.                                   | Built-in equipment                 |    | \$           | 1,549,200.00         |
| C.                                   | Architectural and Engineering Fees |    | \$           | 2,107,825.00         |
| D.                                   | Contingencies                      |    | \$           | 2,392,300.00         |
| E.                                   | Other Costs                        |    |              |                      |
|                                      | Advertising                        | \$ | 500.00       |                      |
|                                      | Land & Right-of-Way                | \$ | -            |                      |
|                                      | Surveys & Borings                  | \$ | 70,200.00    |                      |
|                                      | Site Improvements                  | \$ | 1,894,000.00 |                      |
|                                      | Utilities                          | \$ | 29,225.00    |                      |
|                                      | Parking Lots                       | \$ | -            |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 692,300.00   |                      |
|                                      | Total Other Costs                  |    | \$           | 2,686,225.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$           | 1,239,300.00         |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>    | <b>19,328,050.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ -                    | 0.00%            |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          | \$ -                    | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 19,328,050.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

# 9.

## HUMAN ENVIRONMENTAL SCIENCES BUILDING RESTORATION and RENOVATION

### Description of Project

The *Human Environmental Sciences Building*, originally called the Home Economics Building, was built in 1940. The three-story building was constructed with a reinforced-concrete frame and load-bearing clay-tile exterior walls faced with blue-grey Batesville limestone. It was designed by Haralson & Mott of Fort Smith with Mann & Wanger of Little Rock in the Collegiate Gothic style, and was one of the last buildings on campus to be built under the influence of the 1925 Plan, although at a much smaller scale and simpler in detail than originally conceived in the plan. In the early 1990's the mechanical systems were overhauled and the original windows were replaced. In 1995, the name of the department was changed from Home Economics to the School of Human Environmental Sciences, although the original v-cut letters spelling out "Home Economics" above the front entrance remain.

A restoration and renovation of the building is required to modernize the 70+ year old classrooms and teaching laboratories and to update mechanical, electrical, and plumbing systems. The replacement windows, though energy-efficient, detract from the historic character of the building. In order to restore the historic appearance of this important campus building, new windows that meet the profile and fenestration patterns of the original will be evaluated for installation. The *Human Environmental Sciences Building* is a Landmark contributing building to the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### Pertinent Data

|                    |                             |
|--------------------|-----------------------------|
| Historic Name:     | Home Economics Building     |
| Constructed:       | 1940                        |
| Style:             | Collegiate Gothic           |
| Size:              | 33,400 sf                   |
| Current Use:       | Education and General       |
| Proposed Use:      | Education and General       |
| % Auxiliary:       | None                        |
| Replacement Costs: | Estimated at \$18.4 million |

### Construction Schedule

The estimated design and construction timeline is 30 months.  
Estimated project costs factor construction beginning May 2015.

NARRATIVE

(CONTINUED)

**Plans Completed to Date**

None.

**History of Request**

This is the first time this project has appeared in the biennium request.

**HUMAN ENVIRONMENTAL SCIENCES BUILDING**

**Estimated Project Costs**

|                                      |                                    |    |            |                     |
|--------------------------------------|------------------------------------|----|------------|---------------------|
| A.                                   | Building Construction              |    | \$         | 5,343,200.00        |
| B.                                   | Built-in equipment                 |    | \$         | 442,500.00          |
| C.                                   | Architectural and Engineering Fees |    | \$         | 1,266,500.00        |
| D.                                   | Contingencies                      |    | \$         | 1,181,000.00        |
| E.                                   | Other Costs                        |    |            |                     |
|                                      | Advertising                        | \$ | 500.00     |                     |
|                                      | Land & Right-of-Way                | \$ | -          |                     |
|                                      | Surveys & Borings                  | \$ | 20,000.00  |                     |
|                                      | Site Improvements                  | \$ | 540,000.00 |                     |
|                                      | Utilities                          | \$ | 8,500.00   |                     |
|                                      | Parking Lots                       | \$ | -          |                     |
|                                      | Telephone/Remote Utility Fees      | \$ | 216,200.00 |                     |
|                                      | Total Other Costs                  |    | \$         | 785,200.00          |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 541,000.00          |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>9,559,400.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                 | Percent of Costs |
|----------------------|----------------------|------------------------|------------------|
| A.                   | State Funds          | \$ -                   | 0.00%            |
| B.                   | Federal Funds        | \$ -                   | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                   | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                   | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                   | 0.00%            |
| F.                   | Other Funds          | \$ -                   | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 9,559,400.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.



# 10.

## **MECHANICAL ENGINEERING BUILDING RENOVATION (Building Systems Renewal)**

### **Description of Project**

The *Mechanical Engineering Building* was designed by Wittenberg, Delony & Davidson of Little Rock and constructed in 1964. The International Style building was constructed as part of a science engineering complex, which included the Science Engineering Building (now clad in a metal skin) and the Science Engineering Auditorium (now demolished).

In 2011, a new roof was added and two main classrooms were modernized with facility renewal and stewardship funds. This renovation would include new mechanical, electrical, and plumbing systems and life safety upgrades. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

### **Pertinent Data**

|                    |   |
|--------------------|---|
| Historic Name:     | Science Engineering Center - Building “B” |
| Constructed:       | 1964                                      |
| Style:             | International Style                       |
| Size:              | 41,770 sf                                 |
| Current Use:       | Education and General                     |
| Proposed Use:      | Education and General                     |
| % Auxiliary:       | None                                      |
| Replacement Costs: | Estimated at \$13.8 million               |

### **Construction Schedule**

The estimated design and construction timeline is 26 months. Estimated project costs factor construction beginning May 2014.

### **Plans Completed to Date**

None.

### **History of Request**

This is the first time this project has appeared in the biennium request.

**MECHANICAL ENGINEERING BUILDING**

**Estimated Project Costs**

|                                      |                                    |    |            |                     |
|--------------------------------------|------------------------------------|----|------------|---------------------|
| A.                                   | Building Construction              |    | \$         | 2,088,250.00        |
| B.                                   | Built-in equipment                 |    | \$         | 553,400.00          |
| C.                                   | Architectural and Engineering Fees |    | \$         | 617,600.00          |
| D.                                   | Contingencies                      |    | \$         | 570,400.00          |
| E.                                   | Other Costs                        |    |            |                     |
|                                      | Advertising                        | \$ | 500.00     |                     |
|                                      | Land & Right-of-Way                | \$ | -          |                     |
|                                      | Surveys & Borings                  | \$ | 25,000.00  |                     |
|                                      | Site Improvements                  | \$ | 395,000.00 |                     |
|                                      | Utilities                          | \$ | 10,500.00  |                     |
|                                      | Parking Lots                       | \$ | -          |                     |
|                                      | Telephone/Remote Utility Fees      | \$ | 263,900.00 |                     |
|                                      | Total Other Costs                  |    | \$         | 694,900.00          |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 355,000.00          |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>4,879,550.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                 | Percent of Costs |
|----------------------|----------------------|------------------------|------------------|
| A.                   | State Funds          | \$ -                   | 0.00%            |
| B.                   | Federal Funds        | \$ -                   | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                   | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                   | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                   | 0.00%            |
| F.                   | Other Funds          | \$ -                   | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 4,879,550.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

## 11.

**CONCERT HALL at the FIELD HOUSE**  
RESTORATION and RENOVATION**Description of Project**

The *Field House* was built in 1937 at a cost of \$160,000 using a portion of a \$307,000 PWA loan initially earmarked for several campus buildings: a field house, men's dormitory, and additional steel stands for the football field. It was designed by Haralson & Nelson of Fort Smith in the Collegiate Gothic style and sited according to Jamieson & Spearl's 1925 Plan. The walls are buff brick trimmed with limestone. The Field House accommodated 3,500 spectators in folding bleachers, and another 4,000 in folding chairs when used as an auditorium. The building was home to men's basketball until John Barnhill Fieldhouse was built in 1954. It then housed physical education until the Health, Physical Education, and Recreation Building was constructed in 1982. It was home to the University Museum from 1986 until its closing in 2003. While in use as a museum, the building was listed on the National Register of Historic Places in 1992. The *Field House* is a Landmark contributing building to the University of Arkansas Campus Historic District, listed on the National Register of Historic Places in 2009.

Consultants were hired to evaluate the conversion of the historic building for use as a music concert hall. The conceptual plans show the concert hall occupying most of the main floor level with the front part of the audience seating as sloping down below the main floor level in order to provide adequate sight lines. Musical instrument and stage storage areas are shown at stage level in order to allow for fast and easy transportation of large items—pianos, percussion, choral risers, chairs, music stands, etc.—to and from the stage. All performer accommodations are at basement level except for one dressing room at stage level to accommodate a disabled performer. These plans show retention of part of the existing mezzanine level, plus an additional mezzanine on the other side of the concert hall. These two areas are necessary for audience circulation and milling at intermissions; they might also be used as event spaces during non-performance times or for post-performance receptions. An enlarged service/loading entrance at basement level with an associated elevator behind the stage will allow musical instruments and large scenic units to be brought up to stage level from the loading dock or from the basement. The seat count will be evaluated further, with a target in the 600-700 range.

The building exhibits significant exterior cracks near all four corners, indicating that the foundations are still settling and/or have been stressed by renovations over the years. The roof structure of the main space was originally designed to support only the roof and roof snow load. Portions of the roof structure were reinforced in 2009 to support the additional weight of the new air handlers. While the air handlers will be re-located, this project will add structural load to the roof in the form of (1) several layers of gypsum board for acoustical attenuation and reflection, (2) lighting catwalks over the audience, and (3) some minimal rigging

and lighting over the stage. As a result, it may be necessary to reinforce the roof structure further. The project will be fully commissioned and constructed to the equivalent of LEED Silver or Green Globes Two Globes.

**Pertinent Data**

|                    |  |
|--------------------|--|
| Historic Name:     | Field House / University Museum  |
| Constructed:       | 1937   |
| Style:             | Collegiate Gothic  |
| Size:              | 40,880 sf  |
| Current Use:       | Education and General (temporary studios for the Fay Jones School of Architecture) |
| Proposed Use:      | Education and General  |
| % Auxiliary:       | None   |
| Replacement Costs: | Estimated at \$16.5 million  |

**Construction Schedule**

The estimated design and construction timeline is 28 months.  
Estimated project costs factor construction beginning September 2013.

**Plans Completed to Date**

A feasibility study and preliminary cost estimate was completed in January 2012.

**History of Request**

This is the first time this project has appeared in the biennium request.

**CONCERT HALL at the FIELD HOUSE**

**Estimated Project Costs**

|                                      |                                    |    |            |                      |
|--------------------------------------|------------------------------------|----|------------|----------------------|
| A.                                   | Building Construction              |    | \$         | 9,358,000.00         |
| B.                                   | Built-in equipment                 |    | \$         | 455,400.00           |
| C.                                   | Architectural and Engineering Fees |    | \$         | 1,878,000.00         |
| D.                                   | Contingencies                      |    | \$         | 1,480,200.00         |
| E.                                   | Other Costs                        |    |            |                      |
|                                      | Advertising                        | \$ | 500.00     |                      |
|                                      | Land & Right-of-Way                | \$ | -          |                      |
|                                      | Surveys & Borings                  | \$ | 76,500.00  |                      |
|                                      | Site Improvements                  | \$ | 248,400.00 |                      |
|                                      | Utilities                          | \$ | 144,900.00 |                      |
|                                      | Parking Lots                       | \$ | -          |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 531,770.00 |                      |
|                                      | Total Other Costs                  |    | \$         | 1,002,070.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$         | 1,888,300.00         |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>  | <b>16,061,970.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ -                    | 0.00%            |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          | \$ -                    | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 16,061,970.00</b> | <b>0.00%</b>     |

Describe commitments or funds already collected to finance this project:

There are no existing funds available for this project.

## 12.

**NANOSCALE MATERIAL SCIENCE AND ENGINEERING BUILDING  
THIRD FLOOR FITOUT and CLEANROOM  
NEW CONSTRUCTION (INTERIOR)****Description of Project**

The *Nanoscale Material Science and Engineering Building* provides standard and specialized wet/dry laboratories, offices, and support functions for the College of Engineering; the J. William Fulbright College of Arts & Sciences; and the Dale Bumpers College of Agricultural, Food, and Life Sciences. The facility is a highly flexible structure that can readily accommodate programmatic change. Due to budget constraints, the space allocated for the cleanroom, as well as the entire third floor of the building, was left as unfinished, shelled space until such time as funds become available to complete the work. The project is fully commissioned and is pursuing a rating of LEED Silver.

**Third Floor**

The third floor is envisioned to emulate the second floor configuration of wet labs, support spaces, and offices. Wet laboratories are characterized by a greater need for casework and fewer large instruments than the materials development labs, hazardous materials usage, and a relatively high exhaust demand. The wet labs include several support modules, each housing a unique function such as radioisotope usage, cell culture, or protein purification. The wet labs are located on the second and third floors for access to natural light and views as well as to group the highest exhaust demands.

**Cleanroom**

There are a variety of unique research, design, and development activities programmed for the cleanroom, including Type III-IV substrates, compound semiconductors, MEMS, nanomaterials development, etc. A four-bay, single-loaded configuration is proposed with a bay/chase arrangement. The layout provides for non-gowned access to a double sided service chase, and for segregation between the Class 100 and Class 1000 areas of the room. The cleanroom will be an H-5 occupancy, which dictates that it be segregated from the remainder of the building by a one-hour separation at the walls, floor, and overhead structure. The concrete floor is designed to provide a low-vibration structure capable of supporting a future stepper in a VC-D environment. This request is to complete the cleanroom on the second floor and the requisite mechanical equipment space on the floor above.

(CONTINUED)

**Pertinent Data**

|                    |  |
|--------------------|--|
| Constructed:       | 2011   |
| Size:              | Total building - 41,770 sf<br>Third floor - 17,000 sf<br>Cleanroom - 3,285 sf on the second floor with an equivalent amount of mechanical space on the floor above |
| Current Use:       | None (unfinished space)  |
| Proposed Use:      | Education and General  |
| % Auxiliary:       | None   |
| Replacement Costs: | N/A  |

**Construction Schedule**

The estimated design and construction timeline is 20 months.  
Estimated project costs factor construction beginning May 2013.

**Plans Completed to Date**

Construction documents are complete.

**History of Request**

This is the second time individual projects within the *Nanoscale Material Science and Engineering Building* have been included in the biennium request. The entire building, however, did appear in two previous requests as the #1 ranked project.

**NANOSCALE MATERIAL SCI & ENG - 3RD FLR FITOUT & CLEANROOM**

**Estimated Project Costs**

|                                      |                                    |    |              |                      |
|--------------------------------------|------------------------------------|----|--------------|----------------------|
| A.                                   | Building Construction              |    | \$           | 10,300,000.00        |
| B.                                   | Built-in equipment                 |    | \$           | -                    |
| C.                                   | Architectural and Engineering Fees |    | \$           | 1,589,199.00         |
| D.                                   | Contingencies                      |    | \$           | 1,926,100.00         |
| E.                                   | Other Costs                        |    |              |                      |
|                                      | Advertising                        | \$ | 500.00       |                      |
|                                      | Land & Right-of-Way                |    |              |                      |
|                                      | Surveys & Borings                  | \$ | -            |                      |
|                                      | Site Improvements                  | \$ | -            |                      |
|                                      | Utilities                          |    |              |                      |
|                                      | Parking Lots                       |    |              |                      |
|                                      | Telephone/Remote Utility Fees      | \$ | 1,506,178.00 |                      |
|                                      | <b>Total Other Costs</b>           |    | \$           | 1,506,678.00         |
| F.                                   | Movable Furniture and Equipment    |    | \$           | 515,000.00           |
| <b>Total Estimated Project Costs</b> |                                    |    | <b>\$</b>    | <b>15,836,977.00</b> |

**Project Funding Sources**

|                      | Source of Funds      | Amount                  | Percent of Costs |
|----------------------|----------------------|-------------------------|------------------|
| A.                   | State Funds          | \$ 15,836,977.00        | 100.00%          |
| B.                   | Federal Funds        | \$ -                    | 0.00%            |
| C.                   | Private Gifts/Grants | \$ -                    | 0.00%            |
| D.                   | Bond Proceeds        | \$ -                    | 0.00%            |
| E.                   | Auxiliary Funds      | \$ -                    | 0.00%            |
| F.                   | Other Funds          |                         | 0.00%            |
| <b>Total Funding</b> |                      | <b>\$ 15,836,977.00</b> | <b>100.00%</b>   |

Describe commitments or funds already collected to finance this project:

\$37 million (\$16 million ADHE bonds, \$5.5 million GIF, \$15.5 million in general obligation bonds) has been allocated to the building to date, but there are no existing funds available to complete the third floor or the cleanroom.