University of Missouri System
2018 State Capital Requests
Our capital focus for the University of Missouri System is primarily on renovating STEM facilities and bring forward new research opportunities for the State of Missouri. If funded, the top priority projects will generate over 2,900 jobs, boost the State GDP by $370 million and eliminate over $71.5 million in deferred facility needs for the University of Missouri System. With the support of the State, the University of Missouri System can continue to meet its education and research commitments to the citizens of Missouri and achieve a well-education workforce.

Included are four Higher Education Capital Fund projects for the University of Missouri campuses. These key investments have extraordinary local support, align closely with the state and university priorities, and are ready to commence with help from the state.

FY 2018 State Capital Appropriations

The University’s top projects that are proposed for state funds.
University of Missouri - Columbia
Waters Hall Reconstruction / Plant Growth Facilities

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Amount</th>
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<tbody>
<tr>
<td>FY 2018 State Request</td>
<td>$53,525,000</td>
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<tr>
<td>Other</td>
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<td><strong>Total</strong></td>
<td><strong>$53,525,000</strong></td>
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**Waters Hall Building Profile**
- Built in 1909
- 49,000 gross square feet
- $14.1 Million Total Facilities Needs
- FCNI: 0.83
- Accommodates 5,000 students annually.

**Plant Growth Facilities Profile**
- New Construction
- $0 Million Total Facilities Needs
- Will contain 40 to 44 glasshouse research compartments.

FCNI is Facilities Condition Needs Index and is calculated as facilities needs over the building replacement value. The higher the FCNI number is, the closer a building is to reaching the end of its useful life.
FY 2018 State Capital Appropriation Request

The challenges that are being experienced
- Need for additional classroom laboratories for STEM.
- Waters Hall has only received minimal improvements since its original construction.
- Plant growth facilities are beyond capacity and many are inadequate to support modern innovative research.

Impact to the Economy
- Adds $117.9 Million to the Local Economy
- Adds $37.0 Million in Personal Earnings
- 930 Jobs

The project will
- Improve STEM space that is critical to maintain student access to important educational experiences.
- Create space for research programs to support modern innovative research.
- Eliminate $14.1 million in facilities needs.
**Building Profile**

- Built in 1968
- 153,000 gross square feet
- $17.7 Million Total Facilities Needs
- FCNI: 0.29
- Accommodates 1,000 students per week

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Building repairs are frequent and costly for Spencer Chemistry and Biological Sciences. The renovation will address over $17.7 million of facilities needs identified.

FCNI is Facilities Condition Needs Index and is calculated as facilities needs over the building replacement value. The higher the FCNI number is, the closer a building is to reaching the end of its useful life.
FY 2018 State Capital Appropriation Request

The challenges that are being experienced
- Phase 1 renovation, addressing lower division laboratories is currently underway; however, prior to this, the facility had not been updated in over thirty years.
- Facility has inadequate teaching and research laboratories.
- Building repairs are frequent and costly.

The project will
- Renovate 75,000 gsf.
- Provide state-of-the-art upper-division teaching laboratory spaces for the sciences.
- Support student retention, meet current laboratory standards, and encourage student collaborative learning.
- Eliminate $17.7 million in facilities needs.

Impact to the Economy

- Adds $80.2 Million to the Local Economy
- Adds $25.2 Million in Personal Earnings
- 640 Jobs
Missouri University of Science and Technology
Schrenk Hall Addition and Renovation - Phase III

Building Profile
- Built in 1938/1973
- 118,000 gross square feet
- $15.0 Million Total Facilities Needs
- FCNI: 0.49
- Accommodates 2,500 students per week

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FCNI is Facilities Condition Needs Index and is calculated as facilities needs over the building replacement value. The higher the FCNI number is, the closer a building is to reaching the end of its useful life.

Repairs are required frequently within Schrenk Hall, the renovation will address $15.0 million of facility needs.
FY 2018 State Capital Appropriation Request

The challenges that are being experienced

- Lack of adequate classrooms and support spaces.
- Chemistry and Biological Sciences Departments are currently in multiple buildings.
- Due to limited upgrades, the building does not meet current safety codes or standards.

The project will

- Renovate 40,000 gsf and replace the East Wing with a new 90,000 gsf facility and atrium to consolidate related departments to one location to enhance the educational experience on campus.
- Address energy conservation measures and associated cost savings.
- Eliminate $15.0 million in facilities needs including code issues and accessibility.

Impact to the Economy

- Adds $115.1 Million to the Local Economy
- Adds $36.1 Million in Personal Earnings
- 910 Jobs
University of Missouri - St. Louis

Stadler Hall Renovation

**Funding Source**

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**Building Profile**

- Built in 1967
- 83,000 gross square feet
- $24.7 Million Total Facilities Needs
- FCNI: 0.53
- Accommodates 2,800 students annually

Current mechanical systems are out dated. The renovation will install modern building systems that will be more efficient and cost less to operate.

FCNI is Facilities Condition Needs Index and is calculated as facilities needs over the building replacement value. The higher the FCNI number is, the closer a building is to reaching the end of its useful life.
FY 2018 State Capital Appropriation Request

The challenges that are being experienced
- Laboratory spaces are outdated and do not meet current codes and standards.
- Current building systems are inefficient and have surpassed their expected useful life.
- Building repairs are frequent and costly.

Impact to the Economy

Adds $56.8 Million to the Local Economy
Adds $17.8 Million in Personal Earnings
450 Jobs

The project will
- Provide critically needed state-of-the-art technology equipped flexible classrooms, class laboratories, research laboratories, and support spaces.
- Install modern building systems that will be significantly more efficient and less costly to operate.
- Eliminate $24.7 million in facilities needs.

Current laboratory space in Stadler Hall. The renovation will create state-of-the-art class laboratory spaces that meet today’s standards at University of Missouri - St. Louis.
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FY 2018 Higher Education Capital Fund Projects

Projects that are proposed for state matching funds through the Higher Education Capital Fund.
University of Missouri - Columbia

MU School of Music

FY 2018 Higher Education Capital Fund Request

Building Profile
- New Construction
- 60,000 gross square feet
- 300 students

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<th>Funding Source</th>
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Major Donors:
Rex and Jeanne Sinquefield, Richard Miller, Anne L. Kinder, Gary Dickinson Family Charitable Foundation, and Ann King Dickinson

The project will
- Create a home for the School of Music which is currently located in five separate buildings.
- Create appropriately sized acoustical rehearsal rooms for large instrument ensembles, group percussion rehearsal, and opera and chorale education.
- Include specialty faculty studio/office spaces and individual rehearsal rooms for student use.

Impact to the Economy

- Adds $77.1 Million to the Local Economy
- Adds $24.2 Million in Personal Earnings
- 610 Jobs
University of Missouri - Kansas City
Downtown Campus for the Arts / Conservatory of Music & Dance

FY 2018 Higher Education Capital Fund Request

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<th>Funding Source</th>
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Building Profile
- New Construction
- 165,000 gross square feet

Major Donors:
Muriel McBrien Kauffman Foundation, City of Kansas City, Missouri, Block 4 Development LLC., William T. Kemper Foundation

The project will
- Be a new 165,000 gsf facility which include teaching, studio, and office and support spaces.
- Provide an opportunity to create innovative state-of-the-art educational facilities downtown for Conservatory students, critical to the conservatory’s ability to satisfy accrediting organizations and keep pace with other premiere arts education institutions in competing to attract high-potential world-class young talent to the city and state.
- Be built in a prominent location bordering the internationally recognized Kauffman Center for the Performing Arts, reinforcing the profile of downtown Kansas City, Missouri as ‘the place to be’ for the quality of life coveted by a highly educated, highly paid workforce and entrepreneurial community.

Impact to the Economy
- Adds $211.4 Million to the Local Economy
- Adds $66.4 Million in Personal Earnings
- 1,670 Jobs
Missouri University of Science and Technology
Butler-Carlton Hall Advanced Construction Materials Lab-Expansion

FY 2018 Higher Education Capital Fund Request

Building Profile
- New Construction (Addition)
- 16,000 gross square feet
- 700 students

Major Donors:
James Heidman

The project will
- Expand the department’s current structural and materials engineering laboratory facilities to allow faculty to engage in research critical to addressing the ever-changing infrastructure needs of the State and Nation.
- Consolidate teaching and research functions that are currently spread over multiple buildings.
- Enable S&T investigators to provide advance research capabilities to collaborate with other leading universities specializing in advance civil engineering materials.

Impact to the Economy
- Adds $13.9 Million to the Local Economy
- Adds $4.4 Million in Personal Earnings
- 110 Jobs

Funding Source | Amount
--- | ---
FY 2018 State Request | $3,145,000
Private Gifts | $3,145,000
Total | $6,290,000
University of Missouri - Columbia
MOI - Center for Regenerative Orthopaedics

FY 2018 Higher Education Capital Fund Request

Building Profile
- New Construction (4th Floor Addition)
- 14,000 gross square feet
- Academic Laboratories

Major Donors:
William S. and Nancy E. Thompson Foundation

The project will
- Add a fourth floor to connect with the existing building dedicated to the academic function of the School of Medicine, Orthopaedic Department.
- Create additional academic space to provide opportunities for discovery of real world application as never seen before because of the collaboration at MOI.
- Bring world class scientists and clinicians together to collaborate more efficiently and effectively.

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Impact to the Economy
- Adds $13.2 Million to the Local Economy
- Adds $4.2 Million in Personal Earnings
- 100 Jobs
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FY 2018 Engineering Equipment Request
Engineering Equipment

- 1,560 degrees awarded in FY 2015 on all of the campuses.
- Matching grant program to purchase much needed teaching and research laboratory equipment.
- Purchase cutting-edge engineering and technology-based equipment.
- May not exceed $1,200 per engineering bachelor degree awarded.

The challenges that are being experienced
- The state has not appropriated matching funds since FY 2003 for the 14,848 degrees earned (see below for the backlog).
- Additional equipment is needed for graduates to be competitive in the marketplace.

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<th>S&amp;T</th>
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<tr>
<th>Equipment Backlog</th>
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