

Board of Governors Facilities Workshop 2018

UF DATA SCIENCE AND INFORMATION TECHNOLOGY BUILDING

NEW UF MUSIC BUILDING

2019-20 LBR: \$50 M

Data Science and Information Technology Building

Prior Funding

2018-19 \$50 M

Future Request

2019-20 Request \$50 M

Other – (UF/Private Donor) \$25 M

Total Project Budget \$125 M

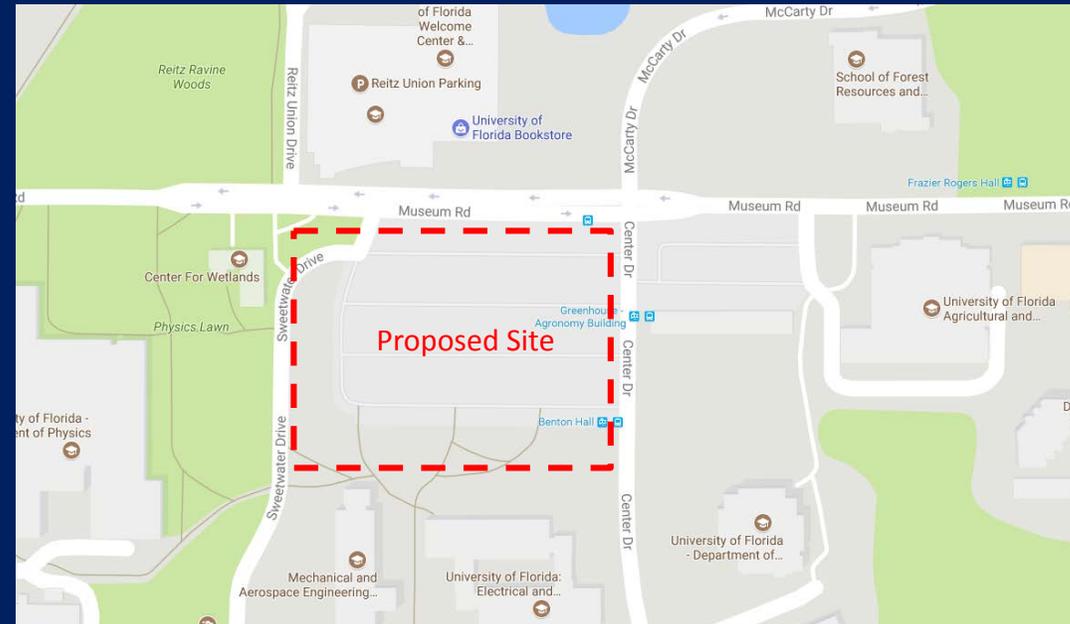
Projected PO&M Costs (Annual) \$3.5 M



2018

Proposed Site or Actual Start Date **2019**

Status as of October 1, 2018:
AE & CM Selections



Proposed Completion Date **Oct. 2021**

Return on Investment (ROI)

Money Generated

- 100% increase in research funding for Computer Engineering areas over 10 years (\$16M to \$33M).
- 33% increase in research funding for selected Health Care areas over 10 years (\$27M to \$36M).
- Over 300% increase in research funding for interdisciplinary Informatics Institute over 4 years (\$1.2M to \$5M).

Graduation Statistics

- 5-year projected increase in Engineering degrees (120).
- 5-year projected increase in Biomedical Informatics and Health Outcomes Degrees (120).
- Number of students per year enrolled in data science and software carpentry certificate programs, short courses and tutorials offered by the Informatics Institute for students outside of computer science or computer engineering (500).

*UF Project Priority # 1

Data Science and Information Technology Building

Project Size:

Net Square Footage

150,000

Gross Square Footage

260,000

**Educational Plant
Survey Approved
by the Board of
Governors:**

1/25/2017

*Utility/Infrastructure is the #1 Priority System-wide

Return on Investment (ROI)

Jobs Created (Anticipated)

- Employment Opportunities: 4,200 current openings in Florida (127,000 nationwide) in Biomedical Informatics and 1,238(26,000 nationwide) openings for majors in health outcomes/population science in Florida.
- Employment Opportunities: 10,000 current openings in Florida(350,000 nationwide) for majors in electrical engineering, computer engineering and computer science.
- Creating 21st Century Data Capabilities for clinical research and the translation of scientific discoveries into treatment advances will capitalize on UF strengths, and position UF to compete nationally and internationally for new opportunities.
- Additional space is needed to co-locate faculty, students, and professional staff in a setting with state-of-the-art teaching classrooms, data centers to support hands-on experiences with health care data, and collaboration areas for faculty, student, and professional staff to interact and foster team-science.

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Academic Areas Impacted

- For College of Engineering ECE and CISE majors, the proposed building will facilitate and support an increase in the university's performance on all preeminent university metrics specified in s.1001.7065, F.S. related to freshmen qualifications and retention and graduation rates; national academy memberships for faculty; annual research expenditures; numbers of patents awarded; national rankings for ECE and CISE programs; annual award of doctoral degrees; number of postdoctoral appointees; and endowment funding.
- For the Health Care Programs, the proposed building will enhance the university's performance on all of the preeminent university metrics specified in s.1001.7065, F.S. related to national academy memberships for faculty; annual research expenditures; national rankings for biomedical informatics and health outcomes/population science programs; annual award of doctoral degrees; number of postdoctoral appointees; and endowment funding.
- As a multidisciplinary cross-college initiative, the Informatics Institute will enhance the annual research expenditures, number of patents awarded, annual award of doctoral degrees, and number of postdoctoral appointees for a range of colleges.

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Return on Investment (ROI)

Degree Programs to be Expanded:

- Programs in the Engineering field: Electrical and Computing Engineering; Computer Engineering; Computer Science and Engineering.
 - Focused on technological growth areas including human centered & reconfigurable computing, intelligent healthcare, cybersecurity, & application in artificial intelligence.
- Degree Programs in the Health Care field: Biomedical Informatics; Health Outcomes/Population Science; Pharmacy
 - Focused on development of novel clinical trials and precision population health initiatives.
 - Translation of findings into clinical practice--"implementation science".
 - Novel approaches for acquiring, validating, enriching, and linking health care data.
 - Development & application of "mHealth" technology-- use of wireless technology.
 - Programs in Pharmacoepidemiology and Pharmacoeconomics focusing on the evaluation of drugs post-approval in real-world populations to ensure drug safety, refine information on drug effectiveness for tailored treatment approaches, and conduct economic evaluations to enhance value-based pharmacy benefit design.

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Correction of Existing Problems

- A number of the academic programs that will occupy the new building presently reside in multiple facilities throughout the main campus. Many of these locations have inadequate HVAC and electrical infrastructure needed to support the complex nature of the technical and climate controlled environments that will be required.
- Over 80% of the faculty, students and professional staff in the Department of Health Outcomes and Policy are located in trailers. These trailers have no collaborative space and are not acceptable for hosting health care leaders from health systems, industry, and funding agencies. There is inadequate HVAC and electrical infrastructure needed to support the data collaborative areas and mHealth laboratories that are vital for the Advanced Center for Data Capabilities in Health Care.
- Within the Department of Pharmaceutical Outcomes and Policy, due to space constraints, only half of the current PhD students have permanent desks, which limits collaboration among students and between students and faculty and research staff.

2019-20 LBR: \$7.4 M

New Music Building

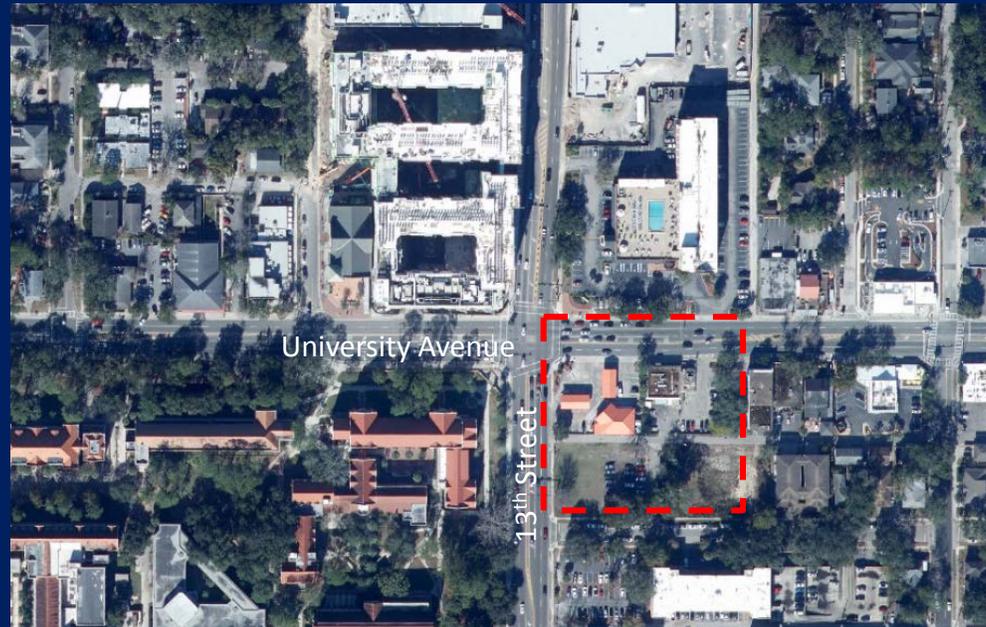
Prior Funding (2017-18)	\$5.9 M
<i>(Requesting Reappropriation)</i>	
2019-20 Request	\$7.4 M
Future Request	
2020-21 Request	\$12.55 M
2021-22 Request	\$12.55 M
Other (UF Funds)	\$16.6 M
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Total Project Budget	\$55 M

Projected PO&M Costs (Annual) \$ 1.3M



Proposed Site or Actual Start Date **2021**

Status as of October 1, 2018:
Facility Program Development



Proposed Completion Date **2023**

New Music Building

Project Size:

Net Square Footage	67,400
Gross Square Footage	119,800

**Educational Plant
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1/25/2017

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Return on Investment (ROI)

Money Generated

- Florida Department of Economic Opportunity's 2015-23 Occupational Forecast identifies Music Education as one of the "Fastest Growth" occupations in Florida.

Graduation Statistics

- UF's Music Education Program has a 100% job placement rate.

Jobs Created (Anticipated)

- It is anticipated that demand for Music-related occupations in Florida will grow by an average 10.95% between 2015-2023, with approximately 1952 new positions added, not including replacements (Florida Department of Economic Opportunity's 2015-23 Occupational Forecast).
- The Median salary for Music related careers in Florida is \$49,000.
- Future plans for the school include the offering of Music and Technology and Music and Business courses, thus leading to new industry partnerships, internships, and jobs.

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Academic Areas Impacted

- Projected dedicated lecture hall will allow an increase in live large-enrollment course offerings in the school and across the college, resulting in 400-800 additional seats each semester.
- The proposed project will enable the School of Music to offer Music and Technology as well as Music and Business courses, both of which will expand enrollment opportunities and lead to new industry partnerships, internships, and jobs.
- Proposed expansion will allow the School of Music to provide rehearsal and performance space to dozens of registered student organizations and non-music majors.
- A permanent home will be provided for the Center for Arts in Medicine faculty which will facilitate better collaboration among the Music and associated Medical faculty for which a new graduate certificate program in Music and Medicine is being developed.

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Cost Benefits

- The proposed new Music Building will allow for repurposing of the existing facility as general use, educational, and administrative space. In its repurposed state, the existing facility will require considerably less remodeling to the HVAC, acoustical, and electrical systems of the facility, thereby extending its useful life.
- The cost benefits of constructing premium environmental, acoustical, and technological systems within a new facility significantly outweigh remodeling of the existing facility.
- Corrects facility deficiencies that exist in the current facility and have been cited by the National Association of Schools of Music (NASM).