

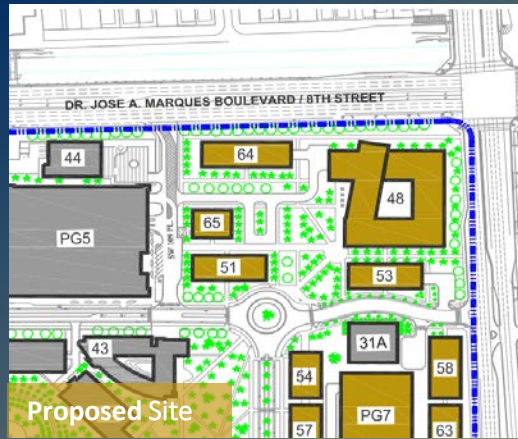
Board of Governors Facilities Workshop October 16, 2018

ENGINEERING BUILDING – Phase I & II

2019-20 LBR: \$35.5 M

ENGINEERING BUILDING Phase I & II

Prior Funding	\$ 30.6 M
Future Request	
2020-21 Request	\$ 38.9 M
Other – (Private)	\$ 45.0 M
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Total Project Budget	\$150.0 M
Projected Annual PO&M Costs	\$ 4.9 M



Phase I Completion - June 2022

Phase II Completion – June 2023

ENGINEERING BUILDING Phase I & II

Project Size:

Net Square Footage 166,700

Gross Square Footage 266,700

Educational Plant
Survey Approved
by the Board of
Governors:

1/20/2016**

*Utility/Infrastructure is the #1 SUS Priority.

**Supplemental survey needed for NASF adjustment.



Return on Investment (ROI)

- **Money Generated**

The addition of 109 full-time faculty along with current tenured/tenure-earning engineering faculty is expected to increase annual external research expenditures to \$69 million, an increase of \$30 million annually.

- **Graduation Statistics**

4-year graduation rates are increasing, with the 4-year graduation rate increasing from 25.1% for the 2010 cohort to 38.5% for the 2014 cohort. With the new facilities and the new pedagogical approaches, including experiential and interactive learning, it is expected that the 4-yr graduation rate will surpass 60% by 2025.

- **Jobs Created (Anticipated)**

Based on national data, each additional million dollars in research expenditures generate 18.2 jobs. Thus, the proposed building investment will create 550 high salary jobs in South Florida. Further, the projected increase in research expenditures will generate 27 additional patent applications annually and one new company every other year, based on university intellectual property.

- **Academic Areas Impacted**

Biomedical Engineering, Electrical and Computer Engineering, Environmental Engineering, and Mechanical and Materials Engineering, Civil Engineering, and Construction Management will occupy the new building. Notably, Engineering has growing collaborations with the Colleges of Medicine; Nursing and Health Sciences; Public Health and Social Work; Arts, Sciences, and Education; Business; and School of International and Public Affairs. The accelerated pace of change and impact by the ever advancing technological landscape necessitates a need for our disciplines to work more closely and intentionally. Research and connections with industry will benefit from well-designed opportunities for collaborations in the classroom and in the laboratory.

- **Correction of Existing Problem**

Programs such as “Accelerated Bridge Construction University Transportation Center (ABC-UTC),” “Advanced Self-Powered Systems of Integrated Sensors and Technologies (ASSIST),” “Wall of Wind Facility,” “Applied Research Center,” the new NSF Engineering Research Centers in “Cellular Metamaterials ([CELL-MET](#)),” and “Precise Advanced Technologies and Health Systems for Underserved Populations ([PATHS-UP](#)),” as well as others at the existing Engineering Center will grow in the space freed up by the relocation of some research and education to the new building.