

# Boca Raton Campus CIP PRIORITY NO. 1: Capital Renewal / Utility Infrastructure Cooling Towers Replacement



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### CAPITAL RENEWAL/UTILITY INFRASTRUCTURE



**Boca Raton Campus** 

# **Cooling Towers Replacement**





Cooling Towers 1-4 Average Age +40 yrs.



Cooling Towers 5 Constructed in 2007





### COOLING TOWERS REPLACEMENT - \$3.5 M

# ROI

- Mission critical project to replace four of five cooling towers servicing 90% of academic building on campus
- Recent evaluation of the cooling towers by Intelligent System Engineering Solutions, a firm that specialized in facilities condition and equipment assessments, determined the towers are beyond their useful life and in immediate need of replacement
- Replacement of all pumps and fans with energy efficient equipment will result in utility savings estimated at over \$500,000 per year
- Project will allow for Chiller Plant Optimization and redundancy
- Job creation: 35 direct construction jobs

### **DEMAND METRICS**

- Critical to academic and research functions on the Boca Raton Campus
- > Reliability of a new system is required to maintain continuity of operations
- FAU is exploring alternate funding options to ensure timely replacement of this mission critical system
- Estimated completion date: December 2018

### **PECO REQUEST**

2017/18 – **\$3.5 million** of the total \$11.43 million for Capital Renewal is required for this project









# Jupiter – John D. MacArthur Campus CIP PRIORITY NO. 2: STEM / LIFE SCIENCES BUILDING



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Jupiter Campus





**Concept Images** 



# ROI

- Create a Life Science focused STEM campus
- Become an equal partner on the Jupiter campus with Scripps and Max Planck
- Meet BOG Strategic Plan goals to increase undergraduate and graduate degrees awarded in STEM and other strategic emphasis areas
- FAU's new Strategic Plan 2025 calls for development of research pillars in neuroscience and healthy aging that will increase graduation of students in areas of strategic emphasis - STEM and Health
- The STEM/LS Building will provide for increased enrollment of students in the STEM fields of Biology, Bioengineering, Bioinformatics, Chemistry, Computational Biology, Engineering and Neuroscience.
- Meet BOG Strategic Plan goals to increase Federal and other research funding. The STEM/LS building will allow for expansion of collaborative research in the STEM areas, especially in specific targeted areas such as neuroscience, biotechnology, bioengineering, bioinformatics/data science, chemistry.
- Increase licensing activity of intellectual property and "spinout" companies based on FAU IP.

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## FAU STEM / LIFE SCIENCES BUILDING - \$33.9 M

### ROI (continued)

- Job creation
  - 45 regular and research faculty positions
  - 20+ postdocs and 40+ graduate students
  - 60 undergrads
  - 20 Principal Investigators
- Total \$10 million of funding includes \$7 million of research funding and \$3 million of admin/training funding
- 20 benches 4 seats at each bench generating ~\$300K/yr of funding
  - Translates to **30 jobs of support in the community** (1 job of support/4 grant-supported research jobs)
  - Translates to \$26M of economic impact/yr (\$2.6 of economic impact for every \$1 of research funding)
- Economic Development Research Ecosystem
  - Research ecosystem in Jupiter supports an R&D enterprise
  - Recruit anchor companies in computational science and personalized medicine (5 over 5 years)
- Economic Impact ~\$130 million in 5 years



# **DEMAND METRICS**

- > 72,000 gross / 45,000 net square feet of Research Facility
- Provides 20 benches for Principal Investigators
- Provides additional research and office space needed to support new STEM faculty. Anticipated 45 additional regular and research faculty at Jupiter
- Provides for new faculty research laboratories, research support space and research staff offices Anticipated ~80 graduate students and ~20 postdoctoral fellows
- Anticipated construction start date: October 2017
- Estimated completion date: February 2019





#### **PECO REQUEST**

TOTAL PROJECT COST	\$ 33,975,000
2018/19 – (Furnishings & Equipment)	\$ 3,202,000
2017/18 – (Construction)	\$ 27,742,000
2016/17 – (Planning) FUNDED	\$ 3,031,000

### **PO&M - PLANT OPERATIONS & MAINTENANCE**

Total Projected Annual PO&M	\$1,354,320
Building Gross Square Footage	72,000 GSF
2015-16 PO&M Rate / Sq. Ft. – Class F	\$18.81
Building Classification – Research/Advanced Technology	Facility Class F



# Boca Raton Campus CITF PROJECT: Student Union Expansion & Renovation Phase II



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#### STUDENT UNION EXPANSION & RENOVATION - PHASE II - \$8.5 M



#### **Boca Raton Campus**

![](_page_11_Picture_5.jpeg)

## **Existing Student Union**

65,000 sq. ft. constructed in 1972 36,000 sq. ft. expansion in 2001

### Phase | Project - \$19 million

1,000 seat banquet hall – approx. 35,000 gsf partitioned - meeting rooms

### Proposed Phase II - \$8.5 million

renovate existing lobby – approx. 14,000 gsf replace existing roof

![](_page_12_Picture_0.jpeg)

![](_page_12_Picture_1.jpeg)

#### STUDENT UNION EXPANSION & RENOVATION - PHASE II - \$8.5 M

### ROI

- Increase meeting room space (social, educational, leadership, new student orientation, and diversity programs) to support the increased utilization for internal users
- 300+ registered student organizations estimated to grow by 30% over the next 5 years
- Repurpose current space for expanded shared office and workspace for 300+ registered student organizations
- Students who are engaged in Student Organizations and programs associated with the Student Union are retained at a higher rate
- Increase revenue generated from the new multipurpose facility and reinvest to expand student services and programming within the Student Union

![](_page_12_Picture_9.jpeg)

**Project Site** 

![](_page_13_Picture_0.jpeg)

![](_page_13_Picture_1.jpeg)

#### STUDENT UNION EXPANSION & RENOVATION - PHASE II - \$8.5 M

# **DEMAND METRICS**

- Additional 25,000 nsf of programmable/meeting space included in Phase I Student Union expansion
- 1,000 seat banquet hall will address university's need for large conference/symposium space
- Dividable partitions, will provide flexibility to reconfigure banquet hall to smaller sections to address unmet **need for** student organizational meeting space
- Enhancing existing Student Union lobby to provide students functional and technologically equipped collaborative space for studying and socializing
- Replace existing 20+ year old roof to address ongoing water intrusion issues
- Anticipated construction start date: October 2017
- Estimated completion date: December 2018

![](_page_13_Picture_11.jpeg)

![](_page_13_Picture_12.jpeg)

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**Concept Images**