



# 2019

# Legislative

# Priorities

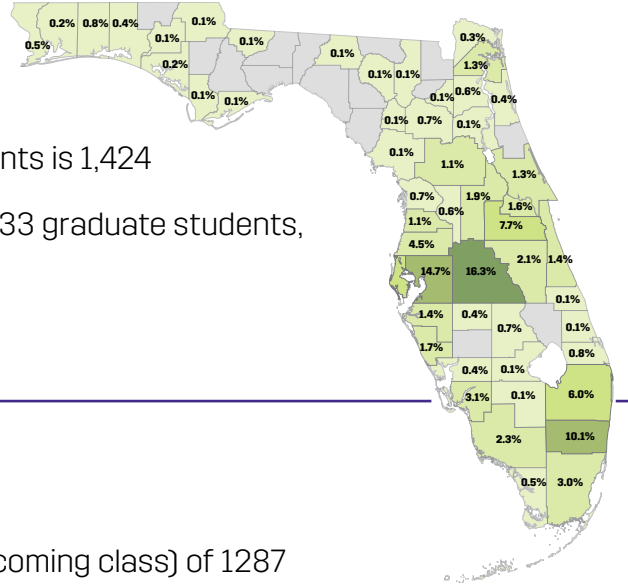
1. Applied Research Center
2. Advanced Mobility Research
3. Enhanced Graduation Pathways
4. Graduate Program Growth
5. Outreach to Underserved Populations



*Florida Poly continues to garner federal research awards and work to expand degree offerings.*



## Population



- Total number of students is 1,424
- 1,388 undergraduate, 33 graduate students, 3 non-degree seeking
- 94% Florida residents

## Quality

- Average SAT (2018 incoming class) of 1287
- First time in college retention of 79%
- 63% of graduates employed, planning on continuing advanced education, or under consideration for employment
- Expected salary ranges from \$50,000 to \$69,999

## Demographics

- Racial diversity similar to peer institutions
- Gender diversity improving; continues to be a challenge

## Degree options

Six majors, 18 concentrations, 100% STEM

### DEGREES IN:

Business Analytics, Computer Engineering, Computer Science, Data Science, Electrical Engineering, and Mechanical Engineering





# Priority 1- Applied Research Center

**TOTAL REQUEST:**  
**\$11,126,850**

*Prior state funding \$7,000,000; Carry forward funding \$20,873,150 (authorized in s.1013.74(6), F.S.)*



## Goal

To catalyze a high-tech, high-skill, high-wage economy in Florida through hands-on education and applied research.

## Challenges

- Few research laboratories in main building.
- Existing Innovation, Science, and Technology Building laboratories not approved for many important chemicals.
- Inadequate storage and support for hazardous and non-hazardous materials used in research.
- Lack of student project laboratories hinders project-based mission focus.
- Innovation, Science, and Technology Building does not have a loading dock.

## Opportunities

- \$27,873,150 already invested in the Applied Research Center.
- Provide research and education opportunities crucial to the university's mission to catalyze economic development.
- Provide space for students, faculty, industry, interdisciplinary design activities and state of the art prototyping tools.
- Help recruit talented students and faculty.
- Expand opportunities for project based learning and entrepreneurial activities.





---

# Priority 2- Advanced Mobility Research

**TOTAL  
REQUEST:  
\$500,000**

## Goal

Florida to be a leader in a multi-billion connected and autonomous vehicle (CAV) market.

---

## Challenge

As the scientific advisor for SunTrax, Florida Poly must define and build the testing infrastructure and research programs that will attract this industry to Florida.

---

## Opportunities

- Continue funding for the eight faculty collaborating on developing a complete solution for CAV research, development and testing which will lead to external funding.
- Build on the Florida Poly/Florida Turnpike Enterprise partnership to reinforce SunTrax as the leader in CAV and an important asset available to all universities in the State University System.
- Provide direct services to industries seeking autonomous mobility solutions.
- Increase avenues to federal research support.
- Expand an emerging industry in Florida.





---

# Priority 3-Enhanced Graduation Pathways

**TOTAL  
REQUEST:  
\$2,250,000**

## Goal

Attract Florida's most talented students and retain them in Florida jobs after graduation.

---

## Challenges

- Create a pathway for up to 100 students to complete their baccalaureate degree in three years, using specific Advanced Placement credit.
  - Provide flexibility for schedule enhancements, use of summers, and off-cycle courses.
  - Tie the program directly to Florida industry by requiring two internship experiences.
- 

## Opportunities

- Reduce cost to student by accelerating degree completion (approximate savings per student ranges from \$11,000-\$19,000).
- Provide an incentive for highly talented STEM students to earn their degree in Florida.
- Connect highly talented STEM students directly with over 200 Florida industries.
- Provide an innovative, unique approach to a high-quality STEM degree.





# Priority 4- Graduate Program Growth

## Goal

Sustainable research programs that deliver excellence in education, discovery, and applied research.

**TOTAL REQUEST:**  
**\$2,500,000**

## Challenges

- Provide opportunities to engage in more in-depth projects with Florida industry and government agencies.
- Enable students to pursue advanced degrees in high-demand fields and hands-on problem solving experience with thesis projects.
- Provide unique and innovative solutions to industry partners.
- Work on federally-funded projects to develop new, fundamental knowledge with far-reaching impact.
- Provide research experiences as a key tool to recruit and retain talented faculty members.



## Opportunities

- Add degrees and tracks to meet the demand of Florida employers.
- Increase annual graduate STEM degrees awarded from 10 to 60.
- Increase number of graduate students providing direct support to Florida industry from 30 to 120.
- Build on existing degrees to expand offering to include data science and intelligent mobility.





---

# Priority 5-Outreach to Underserved Populations

---

**TOTAL  
REQUEST:  
\$750,000**

## Goal

Increase access and degree completion in STEM fields of students from traditionally underrepresented groups

---

## Challenges

- Build a rigorous world class STEM program for rising high school seniors.
- Merge our 2018 pilot program with established programs such as the MIT Beaver Works Summer Institute.
- Provide a series of one-week residential outreach programs for high school students from underserved populations.

---

## Opportunities

- Provide a tool to recruit underrepresented populations into STEM programs.
- Improve campus and workforce diversity.
- Serve the state and industry by introducing more students to STEM programs and potentially increasing the number of high-quality STEM degrees awarded.

