FAMU-FSU Engineering building the future workforce

2252 Undergraduates

• 395 BS graduates annually

324 Graduate students

- 78 MS graduates annually
- 31 PhD graduates annually

123 Faculty

Six PhD programs

- 7 BS programs
- 8 MS programs

Annual external research expenditures \$25.5M



Our partnership empowers a combination of education and research accomplished nowhere else in the nation and addresses the need for a more diverse workforce

Pre-eminent Research I





A bold experiment by the State of Florida



Fuel cell car model



School house in Guatemala



Highway bridge design



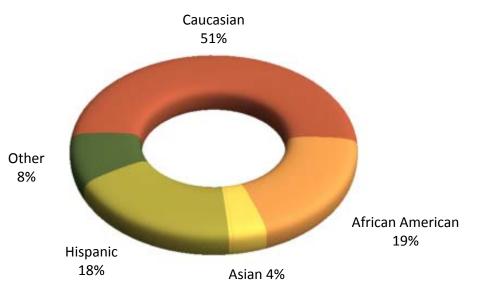
Missing child locator



Search and rescue drone



Manufacturing capacitors



We are the most diverse of the nation's top-ranked schools of engineering

Our graduates gain a unique experience in cross-cultural teams that is valued by industry (for example senior design teams above)





Testimonials from some of our graduates

Asegun Henry, Professor at MIT "I would say FAMU did more to prepare me to succeed at MIT than



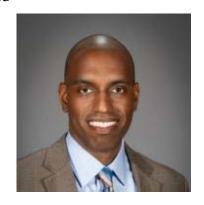
I think MIT could have done"

Rebecca Sweat, Solvay Corp. "The faculty does not simply teach the subject of engineering; they inspired me to a life of curiosity."

Cezar Bojanowski, Argonne National Lab: "Studying engineering is not about obtaining a list of step-by-step recipes ... it is about acquiring a set of skills that will allow you to approach even the most challenging problems with confidence and curiosity .. these skills are what FAMU-FSU College of Engineering offers to its students. "



Cordell Hardy, 3M Corporation "not only did I get a top notch education...but I did so in a social and cultural landscape like none other in the world"







Successes since 2015

Doubled PhD enrollment at FAMU

• Today we are #4 in the nation for African-American PhD graduates

Undergraduate enrollment at FAMU up 16%

Increased female undergraduate enrollment to 28% (up by 18%)

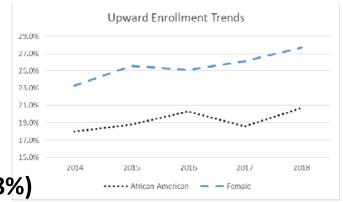
External funding expenditures increased 30% to \$25.5M

Moved up 7 points in rankings this year to #116

Increased our faculty size to 123 (up 20%)

- New research in power systems, cyber security, biomedical and transportation
- Reduced class size, more curriculum flexibility for increased student success

New degree programs in Biomedical Engineering and Systems Engineering









Opportunities



- With improved retention we can be the largest producer of African-American engineering degrees in the nation
- We are the go-to place to train students on inclusion addressing engineering companies needs nationwide
- Our strategic research directions mesh with the needs of Florida and our local region
- We will leverage funds nationally to support research and students
- The Joint College benefits both institutions in terms of their metrics and strategies



Expanded retention programs can have big impact on graduation rate

First Time in College (FTIC) undergraduates in our new retention programs show this improvement moving forward into their sophomore year, with a 0.6 pt improvement in grades.

We have doubled the number of students benefitting from these programs but resources and staffing limit further growth and expansion into sophomore and junior years.



Joint College Funding through the LBR is critical for our future



The Board recognized in 2015 that preserving the joint college is the right path forward for our State

Both universities are fully committed to our success and provide resources

Support of the Joint College LBR is the only way to sustain the unique partnership model and enable it to flourish

We have made progress through spending down our carryforward, which was substantial in 2015. In the next fiscal year we will have inadequate resources even to operate as we do today, never mind grow our impact

Without new funds we will not be able to sustain our diversity, improve student success or develop strategic research, and will damage our unique resource

We are also in need of additional space (Bldg C) approved by a 2017 Educational Plant Survey to address current student demand and add to investments in building renovation



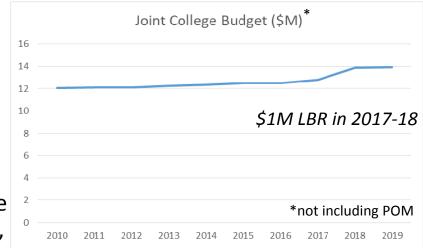


LBR for \$6.394M

Additional faculty \$1.3M

Research support for faculty \$2.5M

 More faculty will improve our 4 year graduation rate through increased curricular offerings and flexibility, smaller class sizes and advising



Research connections with industry will improve student employment outcomes

Support for Undergraduate Student Success \$1.348M Strengthening graduate student programs \$550K Faculty retention and vitality \$696K



Your combined engineering program offers a differentiated opportunity for our company and your student body. We value the combination of strong research academics at Florida State with the broader access to students from traditionally under-represented backgrounds from Florida A&M. 77



S. Dwinell, Vice President for Talent Management **INSTRUMENTS** accompanying a \$150K gift supporting student success

Similar sentiments and support echoed by major employers in Florida such as Harris Corp, Northrop Grumman and Florida Power and Light

