

FAMU Board of Trustees
Academic and Student Affairs Committee Meeting
December 1, 2021



AGRICULTURAL AND MECHANICAL JNIVERSITY

Research Data 2017 - Present



	2017-2018	2018-2019	2019-2020	2020-2021	
Awards Received	\$46.2M	\$46.7M	\$60.8M	\$66.4M New record	
Submitted	\$99.1M	\$182.1M	\$154.0M	\$201.5M New record	
R&D Spending	\$38.0M	\$42.8M	\$41.3M	\$51.8M New record	
Patents Granted	4	3	6 utility 2 plant	4	



FLORIDA
AGRICULTURAL AND
MECHANICAL
UNIVERSITY

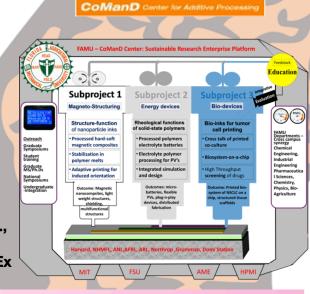




Subramanian Ramakrishnan, Ph.D, Energy – 3M Fellow



Tarik. J.
Dickens, Ph.D.,
Associate
Professor, UREx
Coordinator



It is our goal in CoManD to combine the expertise of the faculty at FAMU to develop an integrated research and education program on additive manufacturing which not only meets the technological demands of the modern century but also trains the next generation of minority scientists and engineers.











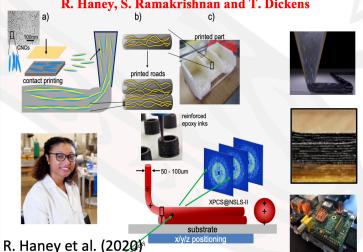
Composites Mechanical test Lab

Autoclave for Composites Fabrication

Resin and Composites Thermal Analysis Lab

Digital manufacturing

Additive Manufacturing of Continuous Fiber Composites with Enhanced Structural and Conductive Properties R. Haney, S. Ramakrishnan and T. Dickens



R. Haney (PhD) –
permanent civilian position
at AFRL

B. Haney (PhD) – Post doctoral fellow at Harvard University



F. Muhammed – first DOD SMART fellow at FAMU





College/School Metrics 2020-21



Unit	Amount Received		
College of Agriculture and Food Sciences	\$11.7M		
School of the Environment	\$7.9M		
College of Pharmacy and Pharmaceutical Sciences, Institute of Public Health	\$7.2M		
FAMU-FSU College of Engineering	\$6.9M		
College of Science and Technology	\$6.2M		



Carnegie Research 1 Status by 2030

R1: Very High Research Activity



Metrics

- 1. R&D expenditures in STEM
- 2. R&D expenditures in non-STEM fields
- 3. STEM research staff (postdocs, lab staff) with PhDs
- 4. PhDs conferred per year

	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Research Doctoral Degrees	23	23	21	20	22	25	20	26	28

R1: Very High Research Activity



Calculation

Principal Component Analysis used to create two indices:

- 1. Aggregate research activity and per-capita research activity.
- 2. R1 universities must be very high in both—A relative (somewhat subjective) judgement is then made.

Research Goals for 2030



- \$90 Million in Research Awards (@\$66M)
- \$70 Million in Research Spending (@\$51.8M)
- 40 PhDs conferred per year and 40 PhD Research Staff (PhDs @ 28)
- Decrease teaching load of research productive faculty by 30%-50%
- Implement cluster hires in fields with high research productivity potential
- Improve research facilities
- National User Facility managed by FAMU

