

**Board of Trustees
Academic Affairs Committee**

The College of Engineering

**Robin N. Coger, Ph.D.
Dean, College of Engineering
April 25, 2014**

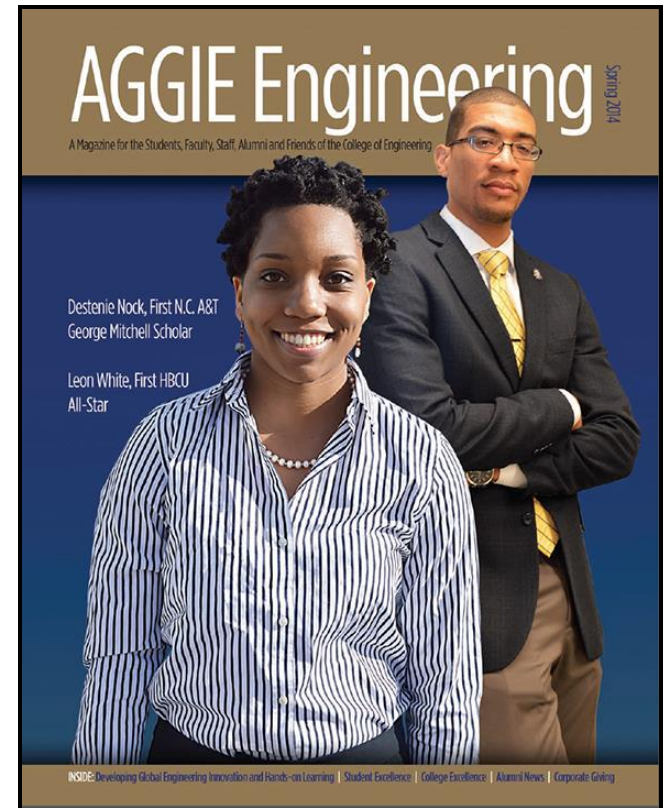


North Carolina Agricultural and Technical State University



Our College of Engineering

- **#2** in annual research dollars among the four North Carolina public engineering schools
- Over \$15 million in total annual research dollars in 2012-2013 academic year
- COE faculty researchers created the first ever **NSF-Engineering Research Center** led by a HBCU (now in Year 6)
- **#1** in BS in Engineering degrees awarded to African-American students AND **#1** in number of BS in Engineering degrees awarded to African American women among all engineering schools/colleges in the US. (ASEE data)





College of Engineering Degree Programs

10 BS Programs

- Architectural Engineering
- Bioengineering
- Biological Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering

8 MS Programs

- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computational Science and Engineering (*interdisciplinary*)
- Computer Science
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering

5 PhD Programs

- Computational Science and Engineering (*interdisciplinary*)
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Computer Science



Enrollment:

NC A&T and Peer Institutions Undergraduate Engineering Enrollment*			
	2010-11	2011-12	2012-13
NC A&T	1,364	1,336	1,291
Clemson	3,452	3,643	4,127
Cleveland State	717	772	903
East Carolina	307	372	434
Univ. of Idaho	1,171	1,165	1,221
Jackson State	436	479	513
Univ. La Lafayette	1,197	1,275	1,445
Univ. of Maine	1,001	1,014	1,103
Univ. New Hampshire	1,383	1,405	1,416
NJ Inst. of Technology	1,986	2,072	2,220
New Mexico SU	1,571	1,304	1,472
UNC Charlotte	1,512	1,465	1,625
Old Dominion	999	1,202	1,266
Univ. of Wyoming	1,205	1,331	1,331

*Source: NC A&T Office of Institutional Research and ASEE



Enrollment:

NC A&T and Peer Institutions Master's Engineering Enrollment*			
	2010-11	2011-12	2012-13
NC A&T	199	203	192
Clemson	466	538	556
Cleveland State	87	226	186
East Carolina	NA	NA	NA
Univ. of Idaho	118	113	104
Jackson State	36	30	31
Univ. La Lafayette	124	106	93
Univ. of Maine	62	67	49
Univ. New Hampshire	189	175	98
NJ Inst. of Technology	621	638	659
New Mexico SU	193	150	124
UNC Charlotte	108	107	127
Old Dominion	73	125	131
Univ. of Wyoming	119	100	100

*Source: NC A&T Office of Institutional Research and ASEE



Enrollment:

NC A&T and Peer Institutions Doctoral Engineering Enrollment*			
	2010-11	2011-12	2012-13
NC A&T	118	127	117
Clemson	51	44	49
Cleveland State	29	26	22
East Carolina	NA	NA	NA
Univ. of Idaho	40	52	54
Jackson State	NA	NA	NA
Univ. La Lafayette	9	8	0
Univ. of Maine	31	30	22
Univ. New Hampshire	0	0	13
NJ Inst. of Technology	43	64	54
New Mexico SU	27	26	28
UNC Charlotte	46	53	54
Old Dominion	176	101	115
Univ. of Wyoming	30	33	33

*Source: NC A&T Office of Institutional Research and ASEE



NC A&T and Peer Institutions Engineering Faculty Breakdown*									
	2010-11			2011-12			2012-13		
	Asst	Assc	Full	Asst	Assc	Full	Asst	Assc	Full
NC A&T	23	19	33	22	22	33	22	24	33
Clemson	55	52	90	50	60	82	54	69	82
Cleveland State	2	24	21	3	21	18	2	18	21
East Carolina	9	2	4	2	7	4	5	8	4
Univ. of Idaho	10	28	41	17	19	57	14	20	47
Jackson State	10	9	7	8	11	8	6	12	10
Univ. La Lafayette	8	13	25	9	13	25	12	8	21
Univ. of Maine	9	27	30	9	27	33	8	23	22
Univ. New Hampshire	8	20	30	10	21	29	11	23	24
NJ Inst. of Technology	10	26	73	8	30	68	10	29	68
New Mexico SU	17	26	31	19	32	29	22	31	27
UNC Charlotte	16	38	23	14	37	26	13	43	26
Old Dominion	26	23	40	13	17	37	18	18	40
Univ. of Wyoming	19	25	34	17	28	31	17	28	31



NC A&T COE Faculty Distribution by Rank and Department (2013-14)*

	Asst Prof	Assoc Prof	Full Prof	Instructor	Lecturer
CBEN: (Chemical & Bioengineering #'s shown)	4	1	7		
Civil, Architec, & Envir. Eng	4	4	3		
Comput. Sci & Eng	2	1	1		
Comp Sci	4	4	3		
Electrical & Computer Eng.¥	6	5	7		
Industrial & Systems Eng¥	4	7	5	1	
Mechanical Eng**, ¥	6	2	8		
TOTALS	30	24	34	1	0

* Source: NC A&T Office of Institutional Research (OIR)

**MECH: Mechanical and Chemical Engineering are still combined by OIR for this data.

¥: Earned FTEs >> Allotted FTEs



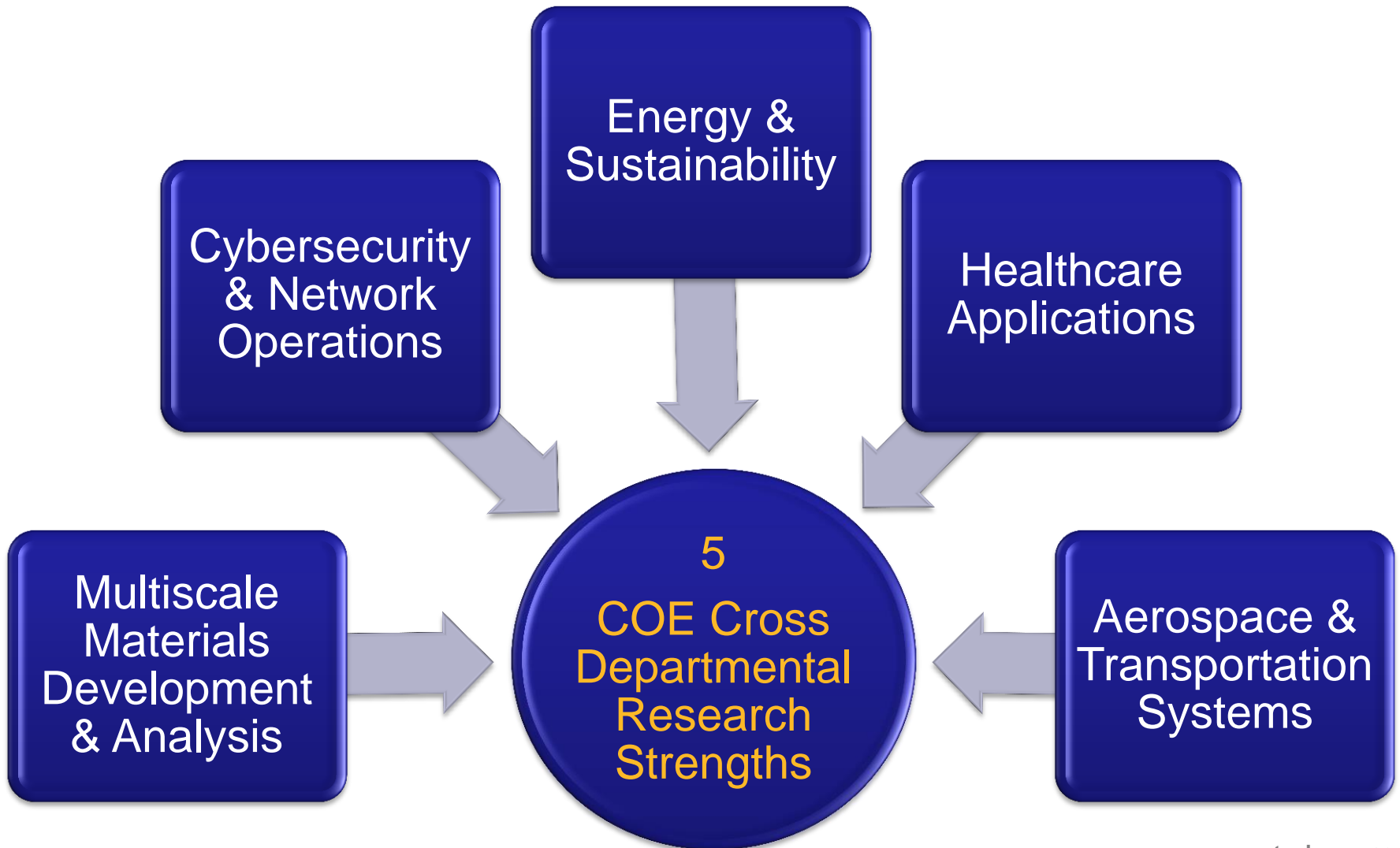
CURRENT GOALS:

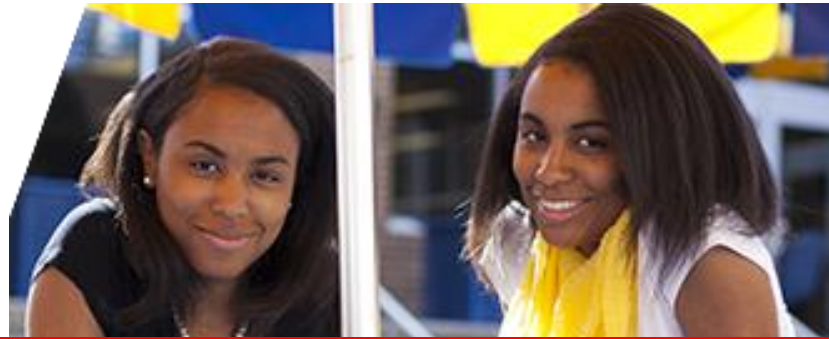
- ✦ Obtain Approval for and Build New Engineering Facility
- ✦ Build our Brand on Excellence and Competitiveness:
Educational, Research, Experiential
- ✦ Continue to Expand our Outreach: Regional to Global



Challenges:

- ✧ Need to establish climate that supports the professional enrichment of our Faculty and Staff
- ✧ Continue to build COE research enterprise and reputation during challenging budgetary climate
- ✧ Innovatively and sustainably expand the COE Funding Base
- ✧ Grow enrollment while ensuring quality of education
- ✧ Effectively integrate economic development and outreach into academic enterprise





The College of Engineering's Chief "Point of Pride":

Our People



