



**NORTH CAROLINA  
AGRICULTURAL AND TECHNICAL  
STATE UNIVERSITY**

## 2016 ANNUAL REPORT CARD

**A&T PREEMINENCE 2020:  
EMBRACING OUR PAST, CREATING OUR FUTURE**

# MESSAGE

## FROM THE CHANCELLOR

**NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY**, an institution established in response to the Second Morrill Act of 1890, celebrated its 125th year in 2016. In telling the story of this remarkable place, we often reference the federal and state legislation that officially established N.C. A&T. Far less frequently do we acknowledge the commitment necessary to transform what was then known as the Agricultural and Mechanical College for the Colored Race—the faith, hard work and courage it took to turn 14 acres and \$11,000 in donations into one of America’s most highly respected land-grant, doctoral higher research activity institutions.

Like those determined founders over a century ago, we believe deeply in being accountable today to the people and communities A&T serves. That is why since 2012, we have published an annual report card documenting our progress on A&T Preeminence 2020: Embracing Our Past, Creating Our Future, the university’s ambitious strategic plan, which sets a course for making a significant difference in the lives of those we educate and in solving the critical problems of our communities. During the commemoration of the university’s 125th anniversary in the 2015–16 academic year, we saw our commitment to A&T Preeminence 2020 continue to pay significant dividends, particularly in our development as a higher research university with global engagement. Contract and grant funding for faculty research increased for the third consecutive year, the number of patents and commercial licenses based on N.C. A&T research quadrupled, and we awarded more doctoral

degrees than in any previous year of our existence—more than double the number we conferred just five years ago.

The continued work toward the realization of A&T Preeminence 2020 goals is a tribute to the vision of those who laid the foundation for today’s successes. I hope that the accomplishments and opportunities reflected on the pages within this report reaffirm for you our commitment to what is possible for A&T in the years to come.



Harold L. Martin Sr.  
Chancellor



# VISION & GOALS

## VISION

North Carolina A&T State University will be recognized as a preeminent land-grant university and the institution of choice for high-achieving students who are inspired by outstanding teaching and learning, civic engagement, transformative research and creative scholarship to solve societal challenges.

## A&T PREEMINENCE 2020 GOALS

**GOAL 1. INTELLECTUAL CLIMATE:** Create an intellectual climate that encourages the creative exchange of ideas and increases the quality of the professional environment.

**GOAL 2. EXCELLENCE IN TEACHING, RESEARCH AND ENGAGEMENT:** Commit to excellence in teaching, research, public service and engagement.

**GOAL 3. PREMIER RESEARCH, SCIENCE AND TECHNOLOGY-FOCUSED INSTITUTION:** Position the university to be a national, premier research-intensive, doctoral, science and technology-focused learning institution.

**GOAL 4. ENTREPRENEURIAL SPIRIT AND ENGAGEMENT:** Embrace an entrepreneurial spirit that intentionally engages university and community partners to expand economic development and civic engagement.

**GOAL 5. DIVERSE AND INCLUSIVE COMMUNITY:** Foster a more diverse and inclusive campus community by promoting cultural awareness and collegiality, and by cultivating respect for diverse people and cultures.

**GOAL 6. ACADEMIC AND OPERATIONAL EFFECTIVENESS:** Achieve excellence in academic and operational effectiveness and efficiency.



FAMILY AND CONSUMER SCIENCES

The achievements highlighted within this report are representative of campus-wide progress in each goal area.

## GOAL 1

### INTELLECTUAL CLIMATE

- Numerous STEM students illustrated A&T's national prominence in science, technology, engineering and mathematics education, among them: biological engineering senior **Madeline Keefer** (pictured right), who used her Fulbright Fellowship award to study flood management in the Netherlands; junior **Angelica Willis**, who was honored as a White House Champion for Change for Computer Science Education; and **Paul Hammond, Zanetta Tyler** and **Willis**, each of whom were chosen for the inaugural class of the Apple HBCU Scholars Program, an initiative between Apple Inc. and the Thurgood Marshall College Fund.
- U.S. News & World Report named A&T the nation's top public HBCU as part of its 2016 Best Colleges rankings. A&T was also named to the editors of MONEY and Essence magazines' top 10 campuses in their first-ever list of 50 Best Colleges for African American Students.



FULBRIGHT FELLOW MADELINE KEEFER

## GOAL 2

### EXCELLENCE IN TEACHING, RESEARCH AND ENGAGEMENT

- Associate Professor **Salil Desai** personified A&T's commitment to teaching excellence in 2016. He received a UNC Board of Governors Award for Excellence in Teaching, the Outstanding Young Manufacturing Engineer Award from the American Society of Mechanical Engineers and the Outstanding Mid-Career Teaching Award from the American Society for Engineering Education.
- As a direct outcome of our groundbreaking Faculty and Staff of the Future initiative, A&T hired 22 highly recruited and competitive new tenure track faculty members—many from flagship campuses holding the Carnegie Foundation's highest rating for research universities—and 195 new staff members. In keeping with Preeminence 2020 strategy, these new hires strengthen our commitment to our doctoral higher-research mission.

## GOAL 3

### PREMIER RESEARCH, SCIENCE AND TECHNOLOGY-FOCUSED INSTITUTION

- Professor **Shengmin Sang's** (pictured right) groundbreaking work on a family of novel aspirin-derived compounds that could be useful in treating and preventing colon cancer, heart disease and other disorders was awarded a U.S. patent. The compounds are less toxic to the stomach than aspirin and have already drawn attention from pharmaceutical companies interested in licensing them, potentially opening the door to a quick path to the marketplace.



SHENGMIN SANG

## GOAL 3, CONTINUED

### PREMIER RESEARCH, SCIENCE AND TECHNOLOGY-FOCUSED INSTITUTION

- A&T joined with partners to make a successful case for the historic \$2 billion Connect NC Bond. The bond issue will provide \$90 million for A&T's Engineering Research and Innovation Complex, enhancing the university's nation-leading efforts in engineering research and education.

## GOAL 4

### ENTREPRENEURIAL SPIRIT AND ENGAGEMENT

- In 2015-16, patent and commercial license activity based on research undertaken by A&T faculty quadrupled, as the university deepened its commitment to bringing innovation to the marketplace.



## GOAL 5

### DIVERSE AND INCLUSIVE COMMUNITY

- A&T hosted more international and exchange students than at any time in the university's history—individuals representing 46 nations and studying in a wide range of disciplines and programs across campus.
- The College of Engineering's strategic memorandum of understanding with Henan Polytechnic University—the first mining university in Chinese history—saw its first Henan students graduate in 2016. Students completed their first two years of undergraduate study in China and the final two in Greensboro. Ninety percent of the graduates opted to continue their master's studies in the United States—more than half of them at A&T.

## GOAL 6

### ACADEMIC AND OPERATIONAL EFFICIENCY

- As part of a forward-thinking strategy to capitalize on synergies between disciplines, increase academic program competitiveness and foster interdisciplinary research, A&T created three new colleges: (1) **Arts, Humanities and Social Sciences**, to raise visibility and focus attention on the liberal arts; (2) **Health and Human Sciences**, to broaden the presence of health and related education and research programs; and (3) **Science and Technology**, to boost graduation of STEM students in areas of state and national need and speed the transition of innovation from lab to marketplace.



# SCORECARD 2016

FOR THE YEAR JULY 1, 2015, TO JUNE 30, 2016

		NC A&T (2010)	BOG PEERS MEAN	UNC PEERS MEAN	GOAL 2020	NC A&T (FALL 2012)	NC A&T (FALL 2013)	NC A&T (FALL 2014)	NC A&T (FALL 2015)	SELF- ASSESSMENT
<b>ENROLLMENT</b>	Fall Enrollment (headcount)	10,795	14,055	23,872	13,500	10,636	10,561	10,725	10,852	■
	Undergraduate	9,151	11,239	18,786	10,000	8,923	8,872	9,203	9,353	■
	Graduate	1,644	2,816	5,086	3,500	1,713	1,689	1,522	1,499	■
	Master's	1,338	3,500	3,399	3,000	1,460	1,390	1,212	1,158	■
	Doctoral	204	1,200	673	500	253	299	310	341	■
	New Freshmen—Average SAT	895	1,036	1,039	1,040	906	919	920	918	■
	New Freshmen—Average ACT	19	22	21	22	19	18	18.7	19	■
	New Freshmen—Average High School GPA	3.04	3.24	3.60	3.4	3.25	3.34	3.4	3.39	■
New Transfer Enrollment	419	1,009	1,759	1,500	409	430	675	641	■	
<b>RESEARCH AND DEVELOPMENT</b>	Contract and Grants Award Dollars (millions)	\$60.14	-	\$43.71	\$85.00	\$56.7	\$52.75	\$53.20	\$60	■
	Number of New U.S. Patents and Licenses Based on N.C. A&T Research Per Year	1	-	-	14	2	3	2	8	■
	Royalties Per Year (thousands)	\$1.70	-	-	\$0.25	0	\$2	\$33.5	\$24	■
<b>STUDENT SUCCESS</b>	First-Year Retention Rate	72.0%	73.9%	78.6%	85%	73.6%	79.8%	79%	75% *	■
	Four-Year Graduation Rate	15.0%	18.9%	28.4%	35%	20.2%	20.4%	19.4%	17% **	■
	Six-Year Graduation Rate	38.0%	44.4%	54.9%	55%	42.2%	42.9%	47%	44% ***	■
	Number of Renowned Scholars (Marshall, Fulbright, Rhodes, etc.)	0	-	-	5	8	17	5	1	■
	Number of National Fellowships	0	-	-	5	3	12	10	5	■
	Degrees Awarded by Fiscal Year	1,726	2,481	4,618	2,700	1,673	1,798	1,907	1,766	■
	Bachelor's	1,349	1,737	3,305	2,000	1,286	1,313	1,394	1,292	■
	Master's	356	640	1,195	645	358	456	470	428	■
Doctorate	21	40	86	55	29	40	43	46	■	
STEM Disciplines	397	530	501	500	601	534	645	528	■	
<b>ATHLETIC SUCCESS</b>	Number of MEAC Championships	0	NA	NA	5	1	0	2	3	■
	Graduation Success Rates for Athletes	50.0%	63.3%	76.6%	65%	56%	59%	63%	67%	■
<b>FINANCIAL RESOURCES</b>	Endowment Market Value (millions)	\$24.01	\$61.23	\$131.02	\$75	\$34	\$40.2	\$48	\$50	■
	Alumni Participation Rate	-	-	20%	-	8.8%	6.58%	8%	8%	■
<b>HUMAN CAPITAL</b> <i>(Faculty and Staff Recognition)</i>	Number of Members in National Academies	0	-	-	2	- ^	- ^	-	0	■
	Number of Members Receiving National and International Awards	2	-	-	8	27	16	13	7	■
	Number of Endowed Professorships	4	-	-	8	10	12	5	5	■
	Highly Cited [Faculty] Staff [scholarly works cited by more than 200 peers]	0	-	-	10	41	27	28	25	■
<b>RANKING AND RECOGNITION</b>	U.S. News Best College—Overall Rank (national universities)	Unranked	2 <sup>nd</sup> Tier	1 <sup>st</sup> Tier	1 <sup>st</sup> Tier	Not Published	Unranked	Not Published	2 <sup>nd</sup> Tier - RNP	■
	U.S. News Best College—Historically Black Colleges and Universities Rank	12	NA	NA	Top 5	11	8	10	10	■
<b>DIVERSITY</b>	Student Demographic—Percent African American	87%	28%	21%	70%	85.4%	81.7%	80%	79.52%	■
	Student Demographic—Percent Non-African American	13%	72%	79%	30%	14.6%	18.2%	20%	20.48%	■

- Above Target
- On Target
- Below Target
- NA Not Applicable
- Not Available
- ^ Revised metric
- \* Entering F14
- \*\* Entering F11
- \*\*\* Entering F09





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