

**North Carolina Agricultural and  
Technical State University  
Capability Statement**

Institution: **North Carolina A&T State  
University**

DUNS No: **07-157-6482**

Cage Code: **7N746**

NACIS ID(s): **61130**

Federal EIN No: **56-6000007**

Certificates, Registrations, Accreditations: **SACSCOC, ABET, EACABET, ACS, ATMAE, ACCE, ITEA, AACSB, NCATE, ACDPI, ACEND, AAFCS, ANSI-ASQ (ISO/IEC 10725:2005) ACEN, CSWE, ACEJMC, NASM.**

POC Information: **Dr. Barry L. Burks, Vice Chancellor for Research & Economic Development  
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## **OVERVIEW**

Established in 1891, N.C. A&T is the largest historically black college or university in the country. The university is located in the city of Greensboro in the Piedmont Triad region of central North Carolina. A constituent institution of the University of North Carolina system, N.C. A&T offers a range of undergraduate, masters and doctoral degree programs.

The main campus, located just east of downtown Greensboro, is accompanied by a 492-acre research farm and additional shared research sites. The 150-acre Gateway University Research Park, divided roughly in half between the park's North and South Campuses, is operated jointly by N.C. A&T and the University of North Carolina at Greensboro. The Center of Excellence in Post-Harvest Technologies is located at the North Carolina Research Campus in Kannapolis.

## **RESEARCH CAPABILITIES**

**Advanced Materials:** Nanomaterials and regenerative engineering, Composite and advanced smart materials, Innovative construction materials, Nanobioelectronics and nanoenergy, Nanoengineered materials, Nanotechnology and multiscale materials, Surface engineered materials

**Creating a Healthier World:** Alzheimer's disease, Bioinformatics, Cancer genes, Drug-delivery systems, Health disparities, Medical devices, Psychology and counseling, Substance abuse

**Engineering for Better Living:** Biodegradable medical implants and devices, Bioinspired design, Mechanical scaffolding for tissues, Nanomedicine, Biomaterials, biomechanics and biosensors

**Food for a Growing Population:** Agribusiness and food industry management, Animal science, Bioagriculture and food microbiology, Global food security, Food science, safety and processing, Crop and pasture production  
Future food systems

**Harnessing & Protecting Big Data:** Computational modeling, Data center operations and efficiency, Data science/data engineering, Data mining and visualization, Genetic evolutionary computing, Software engineering

**Living With Our Planet:** Weather/climate ecology, Environmental systems and engineering, Sustainable land management, Natural resources management, Civil and architectural engineering, Agro-forestry research

**Moving People and Products:** Logistics, Transportation systems, Economics, Manufacturing logistics, Disaster relief, Resource scheduling, Supply chain strategy

North Carolina A&T State University

**Securing Cyberspace:** Artificial Intelligence, Autonomous Agents, Biometrics, Cybersecurity/Identity protection, Information Assurance, Secure Software Engineering, Trustworthy Cloud Computing

**Tools & Technologies for Tomorrow:** Systems engineering, Autonomy and robotics, Earth-space technologies and remote-sensing (small satellites), Motorsports technology and mechanical engineering, Human-machine interaction

**Transforming the Energy Landscape:** Energy innovation, Alternative/renewable energy (wind, solar, geothermal, biofuels), Accelerator-based nuclear physics

### **Research Centers and Institutes**

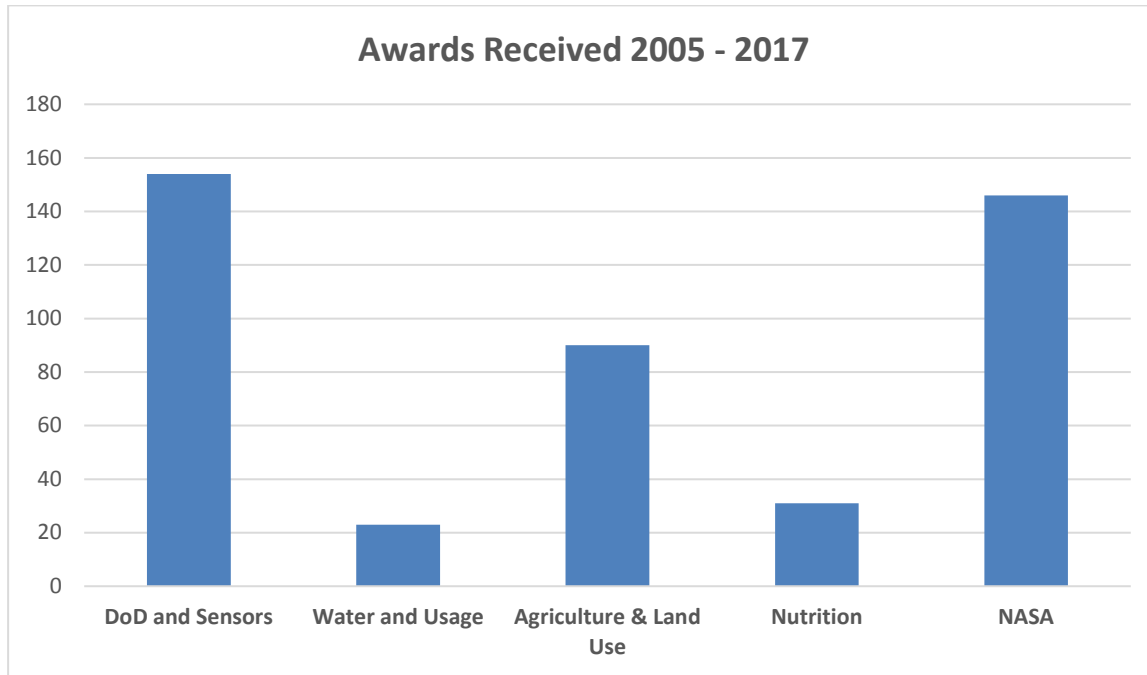
Bioenergy Center  
Center for Advanced Materials and Smart Structures  
Center for Advanced Studies in Identity Sciences  
Center for Aviation Safety  
Center for Behavioral Health and Wellness  
Center for Composite Materials Research  
Center for Cyber Defense  
Center for Energy Research and Technology  
Center for Entrepreneurship and Innovation  
Center for Excellence in Post-Harvest Technologies  
Center for Outreach in Alzheimer's, Aging and Community Health  
Engineering Research Center for Revolutionizing Metallic Biomaterials  
Institute for Autonomous Control and Information Technology  
International Trade Center  
Interdisciplinary Scientific Environmental Technology  
Visualization and Computation Advancing Research Center  
Waste Management Institute

### **Facilities and Labs**

Analytical Services Lab  
Autonomous Control Lab  
Bioinformatics Lab  
Plant Tissue Culture Biotechnology Lab  
Computational Science and Engineering Cluster  
Joint School of Nanoscience and Nanoengineering  
Reid Greenhouse  
Food and Nutrition Lab  
Food Research Lab at NC Research Campus  
Plant Biotechnology Lab  
Research Farm

**PAST PERFORMANCE**

Over the past decade, the research enterprise at NC A&T has grown in both number of awards received and the total for funding all research programs from federal and private organizations. Total Sponsored programs funding in FY2017 reached a record \$62.5M, and we are currently well positioned to reach our stretch goal of \$80M Sponsored Programs funding in 2020.



Academic Unit	FY as of 06/30/2015	FY as of 06/30/2016	FY as of 06/30/2017
(30000) Division of Academic Affairs	<a href="#">\$10,527,581.35</a>	<a href="#">\$11,809,248.00</a>	<a href="#">\$11,705,387.33</a>
(35000) Division of Research and Economic Development	<a href="#">\$517,307.68</a>	<a href="#">\$742,292.32</a>	<a href="#">\$3,795,611.15</a>
(36000) College of Agriculture and Environmental Sciences	<a href="#">\$20,946,189.00</a>	<a href="#">\$21,723,533.68</a>	<a href="#">\$20,855,335.07</a>
(36500) College of Arts, Humanities and Social Sciences	<a href="#">\$711,095.00</a>	<a href="#">\$724,440.00</a>	<a href="#">\$2,500.00</a>
(37000) College of Business and Economics	<a href="#">\$622,815.00</a>	<a href="#">\$938,708.00</a>	<a href="#">\$1,989,190.00</a>
(37500) College of Education	<a href="#">\$1,046,814.00</a>	<a href="#">\$1,728,180.00</a>	<a href="#">\$1,545,547.00</a>
(38000) College of Engineering	<a href="#">\$12,941,281.96</a>	<a href="#">\$15,615,841.86</a>	<a href="#">\$13,871,922.50</a>
(38500) College of Science and Technology	<a href="#">\$3,645,191.99</a>	<a href="#">\$4,615,646.94</a>	<a href="#">\$5,134,588.00</a>
(39000) The Graduate College	<a href="#">\$203,942.00</a>	<a href="#">\$103,500.00</a>	<a href="#">\$92,000.00</a>
(39500) College of Health and Human Sciences	<a href="#">\$108,081.00</a>	<a href="#">\$290,215.00</a>	<a href="#">\$290,493.79</a>
(39600) Joint School of Nanoscience and Nanoengineering	<a href="#">\$1,081,131.25</a>	<a href="#">\$1,517,583.00</a>	<a href="#">\$1,015,864.00</a>
(40000) Division of Business and Finance	<a href="#">\$0.00</a>	<a href="#">\$0.00</a>	<a href="#">\$50,000.00</a>
(60000) Division of Student Affairs	<a href="#">\$856,679.00</a>	<a href="#">\$419,009.00</a>	<a href="#">\$2,177,239.00</a>
<b>Total</b>	<a href="#">\$53,208,109.23</a>	<a href="#">\$60,228,197.80</a>	<a href="#">\$62,525,677</a>