

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**
Address: 1601 East Market St., Greensboro, NC 27411
Tel: (336) 334-7995; email: blburks@ncat.edu

Dr. Sanjiv Sarin, Vice Provost for Research, Graduate Programs and Extended Learning
Address: 1601 East Market St., Greensboro, NC 27411
Tel: (336) 334-7995; email: sarin@ncat.edu

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

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

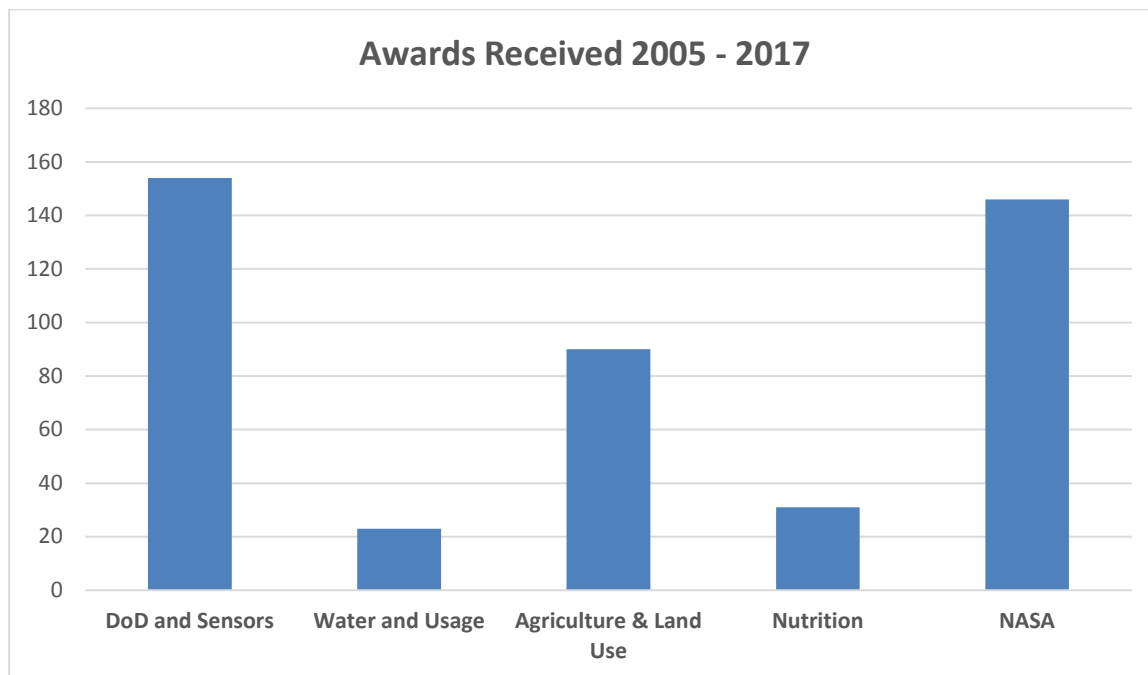
Bioenergy Center
Center for Advanced Materials and Smart Structures
Center for Advanced Studies in Identity Sciences
Center for Aviation Safety
Center for Behavioral Health and Wellness
Center for Composite Materials Research
Center for Cyber Defense
Center for Energy Research and Technology
Center for 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 | <u>\$10,527,581.35</u> | <u>\$11,809,248.00</u> | <u>\$11,705,387.33</u> |
| (35000) Division of Research and Economic Development | <u>\$517,307.68</u> | <u>\$742,292.32</u> | <u>\$3,795,611.15</u> |
| (36000) College of Agriculture and Environmental Sciences | <u>\$20,946,189.00</u> | <u>\$21,723,533.68</u> | <u>\$20,855,335.07</u> |
| (36500) College of Arts, Humanities and Social Sciences | <u>\$711,095.00</u> | <u>\$724,440.00</u> | <u>\$2,500.00</u> |
| (37000) College of Business and Economics | <u>\$622,815.00</u> | <u>\$938,708.00</u> | <u>\$1,989,190.00</u> |
| (37500) College of Education | <u>\$1,046,814.00</u> | <u>\$1,728,180.00</u> | <u>\$1,545,547.00</u> |
| (38000) College of Engineering | <u>\$12,941,281.96</u> | <u>\$15,615,841.86</u> | <u>\$13,871,922.50</u> |
| (38500) College of Science and Technology | <u>\$3,645,191.99</u> | <u>\$4,615,646.94</u> | <u>\$5,134,588.00</u> |
| (39000) The Graduate College | <u>\$203,942.00</u> | <u>\$103,500.00</u> | <u>\$92,000.00</u> |
| (39500) College of Health and Human Sciences | <u>\$108,081.00</u> | <u>\$290,215.00</u> | <u>\$290,493.79</u> |
| (39600) Joint School of Nanoscience and Nanoengineering | <u>\$1,081,131.25</u> | <u>\$1,517,583.00</u> | <u>\$1,015,864.00</u> |
| (40000) Division of Business and Finance | <u>\$0.00</u> | <u>\$0.00</u> | <u>\$50,000.00</u> |
| (60000) Division of Student Affairs | <u>\$856,679.00</u> | <u>\$419,009.00</u> | <u>\$2,177,239.00</u> |
| Total | <u>\$53,208,109.23</u> | <u>\$60,228,197.80</u> | <u>\$62,525,677</u> |