WELCOME TO THE

2019 ENGINEERING TECHNOLOGY LEADERS INSTITUTE

ASEE
AMERICAN SOCIETY FOR
ENGINEERING EDUCATION

N.C. A &T Verizon Innovative Learning Program

Clay Gloster

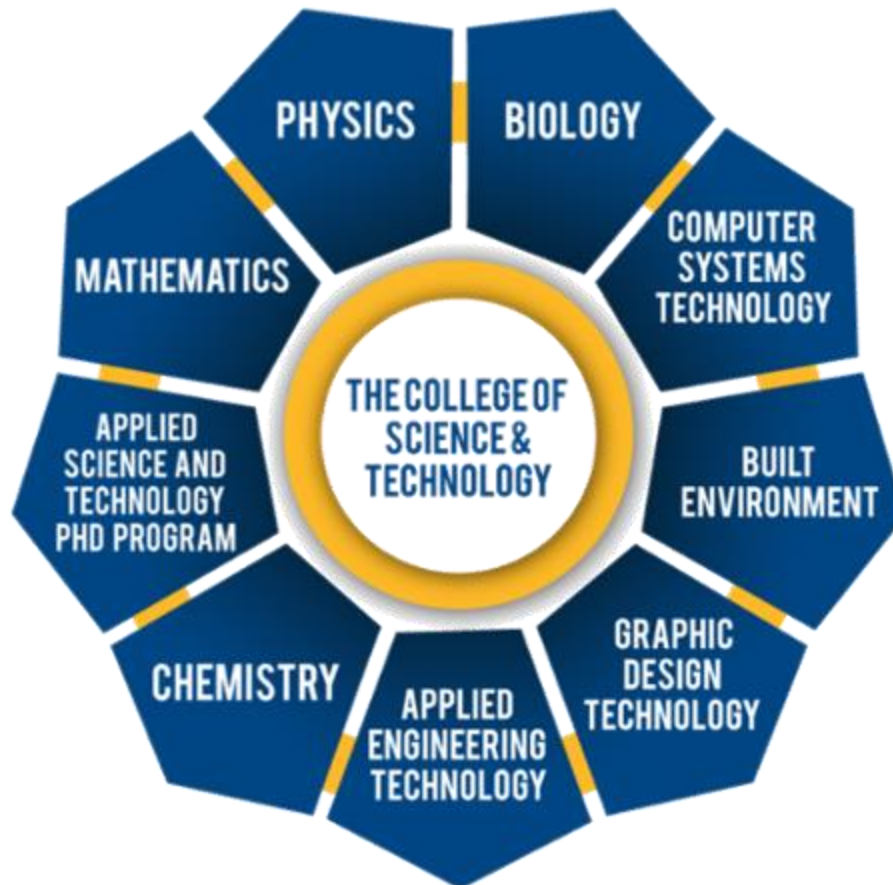Interim Dean, The Graduate College

October 11, 2019

N.C. A&T State University

➢ North Carolina Agricultural and Technical State University is a public, 1890 land-grant university committed to exemplary teaching and learning, scholarly and creative research, and effective engagement and public service. (> 12,000 students)

➢ NC A&T has 7 colleges and 1 school (> $60 million in research expenditures annually)

> ➢ College of Agriculture and Environmental Science
> ➢ College of Arts, Humanities, and Social Sciences
> ➢ College of Business and Economics
> ➢ College of Education
> ➢ College of Engineering
> ➢ College of Health and Human Sciences
> ➢ College of Science and Technology
> ➢ [Joint School of Nanoscience and Nanoengineering](#) ($56 million facility)

Ranked the Nation's Top Public Historically Black College or University US New & World Report

College of Science and Technology

9 Departments, 13 BS, 7 MS, 1 PhD programs, ~1800 students, 100 faculty

Department of Computer Systems Technology

- Computer Systems Technology Department Degree Programs
  - Bachelor of Science in Electronics Technology
  - Bachelor of Science in Information Technology
  - Master of Science in Information Technology
  - Master of Science in Technology Management
  - Ph.D. in Technology Management (Consortium with Indiana State University)
  - Ph.D. in Applied Science and Technology (Concentration in Information Technology)

- Courses Offered (Cisco Academy with Certified Cisco Academy Instructors)
  - digital and microprocessor systems, computer technologies, hardware, software and computer networking
  - Enterprise systems, wireless communications, power distribution;
  - computer programming, storage, servers, and project management.

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Program Information

NCAT & Verizon Foundation Parentship

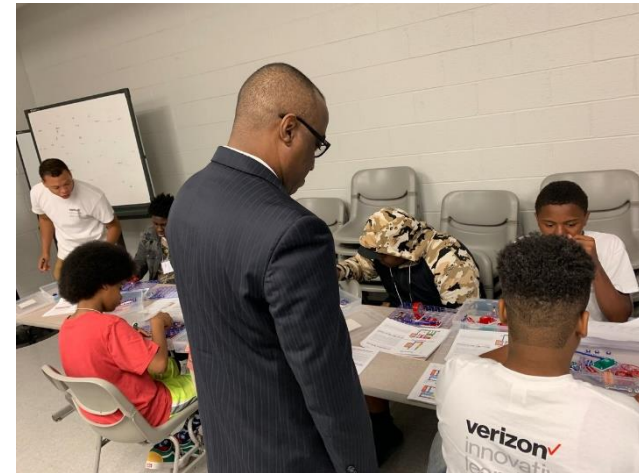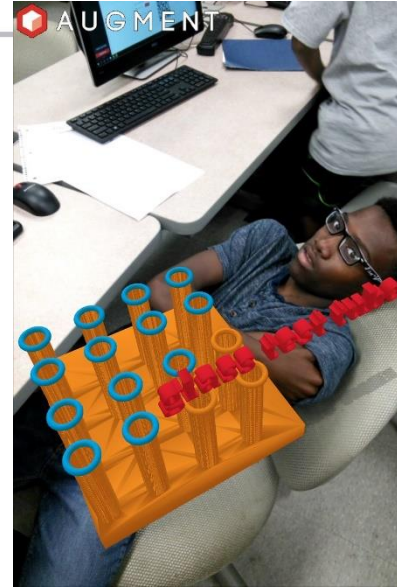5th Consecutive Summer & Academic Year Program

3rd Grant Cycle

$300,000 grant for 2019-2020

Goal: Expose students to STEM Majors, Careers, Technologies, Entrepreneurship

NCAT Culture: Innovation, Mentoring, Exploration & Brotherhood

2019 Summer Program Recap
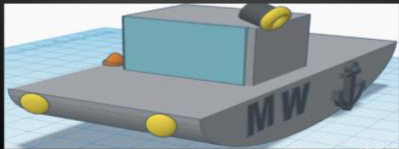

Student Showcase Projects

- 3D Printed, 3D Design Emergency Vehicle, STEM Career Research, College Research

Field Trips: Proximity Hotel Sustainable Development Tour, NCAT Farm

Miami Heat's Bam Adebayo Team Chant Challenge

Greensboro Mayor Pro Temp: Yvonne Johnson Visit

STEM Knockout Conference

EMERGENCY VEHICLE

- TSUNAMIS- A LARGE WAVE OR BODY OF WATER THAT IS CAUSED BY A UNDERWATER EARTHQUAKE OR VOLCANIC ERUPTION THAT MOVES STRAIGHT AND DOSE NOT TURN OR GO ANY OTHER DIRECTION.

MY VEHICLE NAME IS THE LIFE GUARD IT IS A BIG METAL BOAT THAT HOLD MANY OF PEOPLE IN A ROOMS UNDER THE BOAT THE BOAT IS VERY STRONG SO NOTHING CAN DESTROY IT AND CAN TRAVEL FAR DISTANCES BEFORE IT NEEDS MORE FUEL.
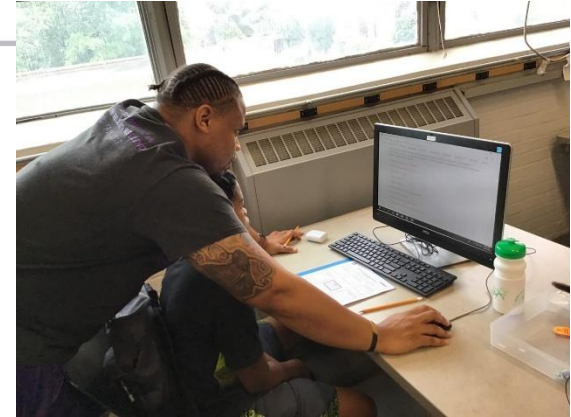
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AGGIES DO

2019-2020 Academic Year Program

One Saturday each month

Saturday Academy Time: 9:00am-3:00pm
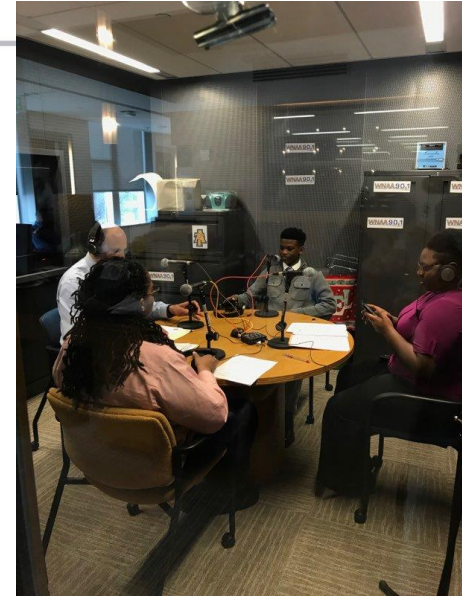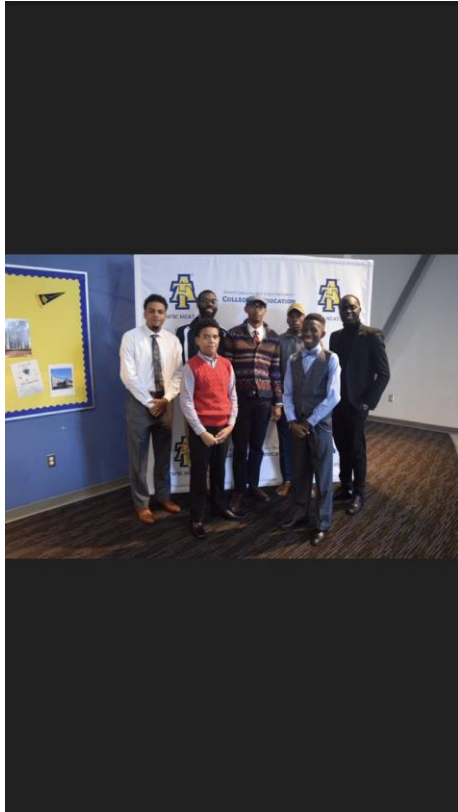
Builds on Summer Program Experiences

Student Awards/Shining Stars

Student Awards

Aggie MVP Award

Team Spirit Award

100% Effort Award

Aggie Growth Award

Earned Opportunities

Program Mentors

NSF Includes Project: Early STEM Engagement for Minority Males (eSEM)

1,400+ students on partner campuses (summer 2017)
- 18 HBCUs/MSI partners
- 97% minority
- 79% interested in STEM careers
- Increased 3D design, mobile app development and problem solving skills

54 workshop attendees
- 36 organizations

10 NIC Members

NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

40 campuses
24 minority male, 16 rural female middle school

verizon✓
innovative learning

Questions