



# NASA's HBCU/MI Engagement Forum at Johnson C. Smith University



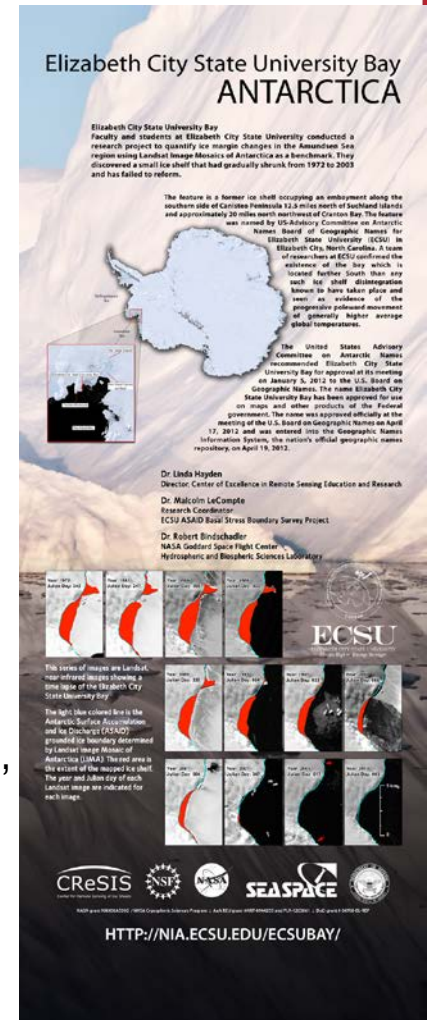
Elizabeth City  
State  
University  
Pernell Bartlett

*Working as part of a collaborative effort, Dr. Linda Hayden is one of five researchers on a team that received a five year, \$15 million grant from the National Science Foundation in July of 2016. The grant established the Science Gateways Community Institute. Dr. Hayden and ECSU will work on a Workforce Development project, designed to increase the number of gateway developers with a variety of training programs.*

# Academic Programs

University curriculum: 120 credit hours with 35 Gen Ed, 18 electives, remaining Core courses. Most curriculum have Internship and Capstone courses. The core will differ from major to major. ECSU offers twenty-eight baccalaureate degrees and four master's degrees in ten academic departments:

- Business & Economics
- Dr. Helen M. Caldwell Department of Education
- Psychology & Health
- Language, Literature & Communication
- Mathematics & Computer Science
- Dr. Herman G. Cooke Department of Natural Sciences,
- Pharmacy & Health Professions
- Social & Behavioral Sciences
- Technology
- Visual & Performing Arts



# Research Core Competencies

## STEM Education & Training

### Natural Sciences, Pharmacy and Health Professions

- Marine and Coastal Research
- Synthetic Biology
- Health Disparities & Minorities Research
- Cell & Molecular Biology (Animal & Plant)
- Microbiology
- Parasitology, Biochemistry, Histology, Enzyme purification
- Antiviral Studies, Organic & Medicinal Chemistry
- Micro and Nano-electronics for Harsh Environment Application

### Technology

- Aviation Science –Human Factors, Air Traffic Management
- UAS Integration in National Airspace System Testing
- Computer-aided Design and Computer-aided Engineering
- Instrumentation, Control, and Data Acquisition Systems
- Embedded System Design & Sensor Fusion
- Reverse Engineering and Finite Element Analysis
- Design Optimization

### Math & Computer Sciences

- Remote Sensing
- Geographical Information Systems (GIS)
- Mathematical Modeling & Computational Methods



ECSU received a \$956,204 grant from the National Institute of Justice (NIJ) to research aviation options to help the African nation of Kenya combat illegal poaching in its parks and reserves.

# Past Performance

## Contracts & Subcontracts

- The Science Gateways Community Institute (SGCI) for the Democratization and Acceleration of Science – University of California San Diego/NSF – Subaward No 78362702
- Virginia-North Louis Stokes Alliance for Minority Participation 2017-2022, University of Virginia/NSF, GA11257 155802
- NC Space Grant Affiliate Program-NASA Funding GY2015, North Carolina State University, NASA, Award No: NNX15A118111
- Mid-Atlantic Consortium Center for Academic Excellence, Morgan State University, Prime Award No. HHM402-12-1-0001



On January 31, 2017, students from the Northeast Academy of Aerospace and Advanced Technologies (NEAAAT) joined members of the Elizabeth City State University (ECSU) Aviation Science program as Chancellor Thomas Conway unveiled the ECSU NASA Mobile STEM Lab for the first time.

# Points of Contacts

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Grand Opening Lab

**Elizabeth City State University** Aviation Science students, staff and faculty celebrated the opening of a new, two-sector, aviation laboratory in McDonald Dixon and Bishop M. Patterson Hall in November of 2016. One side of the room is a NASA Aerospace Education laboratory (AEL) while the other is an Unmanned Aerial Systems (UAS) laboratory. This laboratory resulted from \$347,000 in funding ECSU received from NASA (2015) and \$1.1 million from the Golden LEAF Foundation (2014) for enhancing Aerospace/Aviation Science education in the northeast North Carolina (NENC) region. Additional funding was provided by a Department of Education-SAFRA grant.