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

Southern University and A&M College

Samuel Washington, Ph.D.
Blending Academia, Research, and Business

- Five Campuses
- Only Land Grant System in the country
- Highly skilled experts: engineering, environmental, logistical communication, integration, cybersecurity, research/development
- Secured $25 million in federal contracts since 1999
- Proficiency as both PRIME and SUBCONTRACTOR
- Large capacity of resources and infrastructure
- Located in the center of the city’s HUBzone Map
- Three-time NUNN Perry team awardee
University Programs and Degrees

- **College of Agricultural, Family and Consumer Sciences**
  - BS, Apparel Merchandising and Textiles (AMTX)
  - BS, Child Development (CHDV)
  - BS, Human Nutrition and Food (HNFD)

- **College of Business**
  - BS, Accounting, Finance and Economics
  - BS, Management and Marketing
  - MA, Business Administration

- **Nelson Mandela College of Government and Social Sciences**
  - BS, Political Science
  - MA, Criminal Justice
  - MA, Public Administration
  - Ph.D., Public Policy

- **College of Humanities and Interdisciplinary Studies**
  - *School of Education (Curriculum and Instruction)*
    - BS, Elementary Education
    - BS, Secondary Education
      » Biology with teacher certification
      » Chemistry with teacher certification
      » Physics with teacher certification
      » History with teacher certification
      » Mathematics with teacher certification
      » English with teacher certification
      » Music (K-12) vocal or instrumental with teacher certification
  - *School of Education (Educational Leadership and Policy Studies)*
    - MA, Clinical Mental Health Counseling
    - MA, School Counseling
    - MA, Education Leadership
    - MA, Teaching

- **College of Nursing and Allied Health**
  - *School of Nursing*
    - BS, Nursing
    - MS, Nursing
    - Ph.D., Nursing

- **College of Sciences and Engineering**
  - BS, Civil and Environmental
  - BS, Electrical
  - BS, Mechanical
  - BS, Electronic Engineering Technology
  - BS, Computer Science
  - BS, Biology
  - BS, Chemistry
  - BS, Mathematics
  - BS, Physics
  - MS, Engineering
  - Ph.D., Environmental Toxicology
  - Ph.D., Science and Math Education

- **Graduate School**
- **Honors College**
- **International Education**
Core Research Competencies

**ENGINEERING SERVICES**
- Mechanical Engineering
- Manufacturing, Materials, Thermal Science/Fluids
- Energy Conservation, Composite Materials
- Experimental Solid Mechanics
- Failure Criteria and Stress Analysis
- Computer Modeling (CAD, Revit)
- Material Science, Nanotechnology, Robotics
  - Electrical Engineering
- Airborne Radar Modeling and Simulation
- Solid State Devices and Microelectronics Fabrication
- Telecommunications and Networking
- High Performance Computing and Visualization
  - Civil and Environmental Engineering
- Environmental Science/Engineering
- Environmental Design and Modeling
- Environmental Remediation / Restoration
- Geotechnical (Soil Mechanics)
- Structural Engineering
  - (structural mechanics computational methods)
- Transportation Engineering
- Water Resources Management
- Remote Sensing, Planning Services

**DIGITAL INNOVATION INFORMATION TECHNOLOGY**
- Data Warehousing, Cybersecurity
- High Performance Computing
- Robotics, Networking / Sensor Network
- Telecommunication
- Technology Transfer
- Biomedical / Bioinformatics
- Material Science, Software Development

**BUSINESS RESOURCES**
- Human Resource Management
- Supply Chain Management
- International Business Management
- Accounting Systems
- Management Information Systems
Past Performance

**Information Security Management - ISO and Other Training Services** - Defense Intelligence Agency (DIA)
Scope services: Provide ISO 27001, 2000, 9001 certification training, DCAA Compliant Accounting System Certification, CISSP, CISM, CSIA, MCSE and MCSM Share-point for purpose of developing a model for establishing, implementing, operating, monitoring, reviewing, maintain and improving the clients information security management system.

**Information Security Management - ISO and Other Training Services** - Defense Intelligence Agency (DIA)
Scope services: Provide ISO 29001, 27001, certification training, for the purpose of developing a model for establishing, implementing, operating, monitoring, reviewing, maintain and improving the clients information security management system.

**Information Security Management - ISO and Other Training Services** - Defense Intelligence Agency (DIA)
Scope services: Provide ISO 27001 certification training, for the purpose of developing a model for establishing, implementing, operating, monitoring, reviewing, maintain and improving the clients information security management system.

**Capability Maturity Model Integration (CMMI) Development Services** - US Air Force
Scope services: Provide CMMI for development maturity level 3 framework for organizational processes, project management/engineering activities to support performance improvement.

**HBCU Basic Ordering Agreement for Engineering Services** - NASA
Scope services: Provide engineering services in support of the NASA Michoud Assembly Facilities in New Orleans, LA

**Environmental Analytical Laboratory Services** - Navy
Scope services: Provide analytical laboratory services for various environmental remediation sites throughout the US

**CDRA Carbon Dioxide Removal Material Absorbent Bed Accelerated Life** - Boeing
Scope of services: Provide testing and evaluation of carbon dioxide removal material.

**Alternate Gas Trap Assembly Materials Performance** - Boeing | Space Exploration Houston, TX, ISS Program
University Points of Contact

Dr. Samuel Washington, Director
Office of Governmental Contracting Services
Southern University and A&M College
P.O. Box 9764, Baton Rouge, LA 70813
Office: 225-771-5920
samuel_washington@subr.edu

Dr. Michael Stubblefield, Vice Chancellor
Office of Research and Strategic Initiatives
Southern University and A&M College
730 Harding Blvd., Baton Rouge, LA 70807
Office: 225 771-3891
michael_stubblefield@subr.edu