

**TEXAS SOUTHERN UNIVERSITY
OFFICE OF CAREER SERVICES
COLLABORATIVE OPERATIONAL READINESS EXPERIENCE PROGRAM (CORE)**

CAPABILITY STATEMENT

CORPORATE STRUCTURE:

A 501 c(3) corporation associated with a SACS Accredited Historically Black College / University (HBCU)

DUNS No: 05-029-8975

CAGE Code: 3ZFQO

NAICS: 611310

Federal EIN No: 74-6001391

Certificates and Registrations:

SAM – Registered

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INTRODUCTION

The Texas Southern University (TSU) Collaborative Operational Readiness Experience (CORE) program contains the business system capabilities necessary to execute on NASA and Prime Contractor subcontracting opportunities. System capabilities incorporated focus on: contract acquisition and compliance, management, research and development; work study and internships; industry partnerships; promoting excellence in education and training programs; increasing the level of HBCU/MI participation in NASA programs; and enhancing the effectiveness of the TSU HBCU/MI Program.

MISSION

To implement a Collaborative Operational Readiness Experience (CORE) program that will ensure positive and continuous growth and sustainability for ethnically diverse students as well as meet the ever-changing requirements of governmental agencies and industry in the 21st century workplace. In order to ensure successful transition, the program will provide:

- relevant career exploration strategies and methods
- experiential learning opportunities from a pragmatic philosophical perspective
- ongoing monitoring and feedback through focused observation
- a strategic and cohesive business model to ensure quality performance and enduring confidence

CORE COMPETENCIES

- **Airway Science and Technology** – Use of data analytics techniques (Big data) to optimize airport throughput.
- **Biology** - Pure and applied research in cell signal, microbiology, microbial growth under reduced gravity.
- **Chemistry** - Biosensor/biomarker core facility to identify the signaling molecules responsible for the bacterial communication.
- **Computer Science** - Mobile application development, Advanced Networking protocols research, Large-scale data analysis of socio-economic systems (Big Data).
- **Engineering** - Control Systems and Materials Testing laboratory.
- **Physics - High Performance Computing Center (HPCC)** - Linux clusters Ares and Hades. Flow physics, photonics, optical materials, nano-enabled device and energy technologies.
- **Mathematics** - Applied mathematics, bioinformatics differential and difference equations, discrete dynamical systems.
- **Environmental and Interdisciplinary Sciences** - Geographic Information Systems (GIS) laboratory.
- **Transportation Studies** - Portable Emission Monitoring System (PEMS) laboratory, and Mini-TranStar laboratory.
- **Industrial Technology** –Process design for utilization of additive manufacturing (3D Printing) technology to create complex structures.

PAST/PRESENT PERFORMANCE

- NASA LaRC SPACE ACT AGREEMENT (SAA). 2016 – PRESENT
- RAYTHEON. 2014 - PRESENT
- OCEANEERING SPACE SYSTEMS. 2014 – 2015

AVAILABLE RESOURCES

- STUDENT WORKERS/INTERNS, PI's and LAB UTILIZATION