



*Blending*  
**Academia**  
**RESEARCH**  
*and Business*  
*"partnering with a promise"*

Research *and*  
Contracting  
**CAPABILITY**



**SOUTHERN**  
**UNIVERSITY**  
AND AGRICULTURAL & MECHANICAL COLLEGE

**Office of Research**  
and Strategic Initiatives  
[www.subr.edu/research](http://www.subr.edu/research)



# OVERVIEW

Established in 1891, Southern University and A&M College is a historically black college and university with the distinction of being associated with the Southern University System (SUS), considered the only land grant university system in the

United States. The system consists of 5 campuses: SU Baton Rouge, SU Law Center, SU Agriculture and Research Center, SU Shreveport, and SU New Orleans. The main campus, located in Baton Rouge is a highly accomplished academic institution offering four-year bachelor, masters, and doctoral programs. The university has a cadre of highly skilled experts with experience in engineering, environmental, logistical communication, integration, cybersecurity, and research and development. The university also has used its multidisciplinary platform offering technical and research services both to the public and private sector as well as state and federal agencies to actively participate in business opportunities. These services are strategically managed to tackle complex challenges and achieve new and innovative solutions for our clients.

## Core

# 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

## Pertinent

# CODES

DUNNS Number	Cage Code	EIN
05-351-5743	1MRL5	1-7260000817

### NAICS Codes

- 541330 - Engineering Services
- 541512 - Computer Systems Design Services
- 541513 - Computer Facilities Management Services
- 541613 - Marketing Consulting Services
- 541712 - R&D in the Physical, Engineering and Life Sciences
- 611430 - Professional Management Services
- 611310 - Colleges, Universities & Professional Schools

## Project

# EXPERIENCE

### ▶ PRIME CONTRACT

- Biological/Ecological Services
- Campaign Plan Implementation
- Coastal Studies
- Cut and Fill Delineation Services
- Design/Excavation of remedial site
- Environmental Assessment
- Impact Statement
- Fracture Trace Analysis
- GIS/Remote Sensing Workshops
- Hydrology/Land Surveying
- Geotechnical – Soil Mechanics
- Analytical Services
- Cybersecurity
- Data warehousing
- Energy/Water Conservation Audit
- Facilities Engineering Support/Planning Maintenance

### ▶ SUBCONTRACT SUPPORT

- PMP Certification
- Lean Six Sigma
- ITIL v3 Foundation Training
- ISO 27001 Certification
- ISO 20000 Certification
- CMMI Level II Training
- Microsoft Gold Partner Cer.
- Tech. Innovation for Leaders
- CISSP
- CISM
- MCSM Share-point
- MCSE Share-point

## Differentiators

# IMPACT

- 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

## PARTNERSHIPS

- Government agencies
- Private firms (Large/Small)
- Minority Owned Businesses
- Women Owned Businesses
- Disable Veteran Owned Businesses
- Other HBCU's and MSI's

▶ **CONTRACT PARTNERS**

*(secured contracts within the last 5 years)*

Accutest Laboratories  
 DIA (Defense Intelligence Agency)  
 EM Assist  
 Gel Laboratories  
 Global Resource Solutions, Inc. (GRS)  
 Integration Technologies Group, Inc.  
 Louisiana State University  
 NASA  
 National Science Foundation  
 Skyline  
 Test America  
 Tetra Tech, Inc.  
 US Department of Agriculture  
 US Department of Air force  
 US Department of Army  
 Whitney, Bradley & Brown, Inc. (WBB)

▶ **ALL CONTRACT PARTNERS**

AECOM  
 Archaeological Research Center  
 Bio Engineering  
 Black and Veatch  
 CB&I (formally Shaw)  
 CH2M Hill  
 Ecological Specialists, Inc.  
 Everblue  
 Green Briar Wetland Services  
 Halcrow  
 HDR Engineering  
 Jacobs Engineering  
 LA Department of Health and Hospitals  
 MEL, Inc.  
 Microbac Labs  
 National Great Rivers (NGRREC)  
 Office of Naval Research  
 Professional Engineering Consultants  
 Shaw Coastal  
 Terracon  
 US Department of Commerce  
 US Department of Education  
 US Department of Energy  
 US Housing and Urban Development  
 Weston

## ACTIVITY

- ▶ **Information Security Management - ISO / Other Training Services**  
 Defense Intelligence Agency (DIA) | Global Resource Solutions (GRS)  
 Protege: FWG, Inc.  
 Fixed Price: HHM402-14-C-0085 | \$295,550 | Nov. 3, 2013 – Sept. 30, 2017. *Scope of services:* Provide ISO 27001, 2000, 9001 certification training, DCAA Compliant Accounting System Certification, CISSP, CISM, CSIA, MCSE and MCSM Share-point for improving information security management system.
- ▶ **Information Security Management - ISO / Other Training Services**  
 Defense Intelligence Agency (DIA) | Global Resource Solutions (GRS)  
 Protege: X Corps, Inc.  
 Fixed Price: HHM402-14-C-0060 | \$147,835 | Nov. 3, 2014 – Sept. 14, 2016. *Scope of services:* Provide ISO 29001, 27001, certification training, for improving information security management system.
- ▶ **Information Security Management - ISO / Other Training Services**  
 Defense Intelligence Agency (DIA) | Global Resource Solutions (GRS)  
 Protege: Core Mission Solutions, LLC  
 Fixed Price: HHM402-15-C-0104 | \$80,960 | Oct. 1, 2015 – Sept. 29, 2016. *Scope of services:* Provide ISO 27001 certification training, for the purpose of developing a model for improving the clients information security management system.
- ▶ **Capability Maturity Model Integration (CMMI) Development**  
 US Air Force | Whitney, Bradley & Brown (WBB)  
 Protege: Analytic Strategies, LLC  
 Fixed Price: SC-16-AIR-T-00460SA | \$129,480 | Nov. 3, 2016 – Sept. 27, 2017. *Scope of services:* Provide CMMI for development maturity level 3 framework for organizational processes, project management and engineering activities that support performance improvement.
- ▶ **HBCU Basic Ordering Agreement for Engineering Services**  
 NASA | Jacobs Technology  
 Fixed Price: NNM09AA20C | \$2.0 M | Oct. 2008 – Oct. 2014  
*Scope of services:* Provide engineering services in support of the NASA Michoud Assembly Facilities in New Orleans, LA
- ▶ **Environmental Analytical Laboratory Services Navy** | Tetra Tech, Inc.  
 BOA: N62473-10-D-0809 | \$170,000 | Jan. 14, 2013 – Dec. 31, 2014  
*Scope of services:* Provide analytical laboratory services for various environmental remediation sites throughout the US.
- ▶ **CDRA Carbon Dioxide Removal Material Absorbent Bed Accelerated Life**, Boeing | Space Exploration Houston, TX, ISS Program  
 Fixed Price: D684-15347-01 | \$53K | Sept. 2013 – Aug. 2015  
*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  
 Fixed Price: D684-15347-01 | \$46,378 K | Sept. 2013 – Aug. 2015  
*Scope of services:* Provide testing and chemical evaluation of materials used in the Alternate Gas Trap Assembly.



## Recent Grant

# AWARDS

Army	Bio-inspired Shape Memory Polymer Fiber Reinforced Thermosetting Polymer Composite	563,246
DoD	Nitrogen Functionalized Carbon Nanostructures and their Electrocatalytic Properties	536,700
FAMU	Consortium for Materials and Energy Studies (CMAES)	371,068
LA BOR	LA Alliance for Minority Participation Senior Alliance Statewide Office at SUBR	1,157,000
LA BOR	Louisiana EPSCoR Research Infrastructure Improvement: Manufacturing and Materials	336,484
LA Div. of Admin.	Economic Development Growth and Infrastructure	720,000
NIH	Regulation of Hoxa 1 Gene Expression in Mouse Embryonic Stem Cells	331,560
NSF	ACE Grant: The New Energy Workforce: Sustainable Materials, Energy and Technology	3,169,600
NSF	Collaborative Research: LIGO Science Education Center Partnership	1,405,000
NSF	CREST Center for Next Generation Multi-functional Composites Phase II	5,000,000
NSF	Next Generation Composites Crest Center, NextGenC3	2,000,000
US DoEd	Vocational Rehabilitation Technical Assistance Center for Targeted Communities	4,250,000

## Cross Cutting

# ENGAGEMENT

Small Business Development & Emerging Technologies  
International Engagement  
Cyber Infrastructure  
Collaborative Environments

## Current Research

# PRIORITIES

Health & Biomedical Sciences  
Advanced Materials & Nanotechnology  
Energy, Ecology & the Environment  
Understanding Human Behavior, Institutions & Cultures  
Business Commerce & Workforce Development

# FACILITIES

## Research Laboratories

Advanced Materials Research Laboratory  
Computer Aid Design Laboratory  
Computer Automated Virtual Laboratory Environment (CAVE)  
Composite Materials & Structure Laboratory  
CREST Facilities  
Environmental Laboratory  
Environmental Toxicology Laboratories  
Geographical Information Systems Laboratory  
Geotechnical/Soil Laboratory  
Louisiana Optical Network Infrastructure (LONI)  
Laser Interferometer Gravitational Wave Observatory (LIGO)  
Water Resources Laboratory

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