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South Carolina State University Capability Statement

Institution: **South Carolina State University**

DUNS No: **626143457**

Cage Code: **0VV54**

NACIS ID(s): **611310**

SIC:

Federal EIN No: **57-6000950**

Certificates, Registrations, Accreditations: **SACSCOC, ABET, ACEND, AAFCS, AACSB, CACREP, CORE, CSWE, NASAD, NASM, SHA, NCATE, NAEYC**

POC Information:

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OVERVIEW

South Carolina State University (SCSU) is a land-grant, Historical Black College and University (HBCU) located in Orangeburg, South Carolina. The main campus consists of 177 acres and is 45 miles east of the state capital of Columbia. SCSU is regionally accredited by the Southern Association of Colleges and Schools (SAC-COC).

SCSU is one of 12 senior public postsecondary educational institutions in South Carolina and the state's only historically Black public four-year institution. Serving as the only state-assisted HBCU in South Carolina, the University has more than 175 full time faculty members and a student body of 2,942 traditional students of which 93.4% are African-American. Originally established on March 3, 1896, through an act passed by the General Assembly of the South Carolina Legislature the institution has grown to a comprehensive teaching university with a strong legacy in its land-grant mission of teaching, research, and community service.

SCSU has five major academic divisions: College of Graduate and Professional Studies; College of Education, Humanities and Social Sciences; College of Science, Mathematics Engineering and Technology; School of Business and the Honors College. Within these divisions, the University offers 43 bachelor's degree programs in 67 concentrations, 1 post baccalaureate degree program, an undergraduate certificate in Agribusiness Innovation and Entrepreneurship, 11 master's degree program, 1 Educational Specialist degree program and a doctorate in Educational Administration. SCSU is consistently among the national leaders in producing African-American students with baccalaureate degrees in biology, education, business, engineering technology, computer science/mathematics, and English language/literature. Through instruction, research and service activities, the University prepares highly skilled, competent, economically and socially aware graduates to meet life's challenges and demands that enable them to work and live productively in a dynamic society.

RESEARCH CAPABILITIES

Physics, Manufacture Engineering: Observational and computational astronomy, medical and health physics, computational physics, fluid dynamics, algorithms test & development analysis, coherent-based simple dynamics equivalent research, composite materials manufacturing technologies, computer graphics & aided engineering design & analysis, expert systems/fuzzy logic/intelligent control, bio-robotics and bio-fabrication, structural optimization, data acquisition, temporal data mining

Energy Security and Environmental Management: Biomass research, environmental & ecological chemistry, environmental engineering, environmental science & technology, environmental remediation, hydrogen storage and production, Geo- environmental engineering

Homeland Security and National Security: Cyber security, integrated simulation platform, material manufacturing, flexible robot manipulator with a prismatic joint, wireless sensors, nuclear safeguard

Transportation: Transportation planning and traffic operations, transportation safety, energy and environment in transportation, alternative fuel, RFID technology, intelligent transportation system

Health Disparities and Public Health: Health physics, community development /rural health education & outreach, geriatric education, handicapped/disabled student & employee education, cancer disparities research,

health and wellness, speech/hearing screening and treatment, health sciences/speech pathology and audiology, health South Carolina initiative, social and economic impact of childhood obesity

Agricultural and Food Sciences: Agribusiness entrepreneurship, Agricultural credit/loan analysis, food consumption/analysis/quality/safety/health, evaluation of agricultural land technologies, marketability & adaptability of water technology for agriculture

Business, Education and Outreach: Small business development, technology transfer, foreign currency, tax preparation, financial literacy, conflict resolution study, curriculum development & enhancement, distance learning/continuing education, high level thinking skills, behavior modification & leaning style research in students

Humanities and the Arts: assessment/evaluation of criminal justice practices, ethics, American politics, American civil rights, faculty development, culture diversity

FACILITIES

- SC State consists of approximately 107 buildings on 170 acres of land on its main campus in Orangeburg, and an additional 267 acres at Camp Harry E. Daniels in Elloree, S.C.
- The new Engineering and Computer Science Complex opened in early 2013. The \$24.5 million, 86,500-square-foot complex features innovative classrooms, research centers, laboratories, offices and other academic support spaces.
- The James E. Clyburn Center conducts research and trains skilled workers, especially minority workers, in the transportation industry.
- SC State has the only undergraduate environmental science field station in the nation.
- SC State is the only HBCU in the country with an interdisciplinary art museum and planetarium in on facility, the I.P. Stanbank Museum and Planetarium.
- 1890 Research and Extension
- The Leroy Davis Sr. Science and Research Complex, an extension of Hodge Hall, is a recently constructed state-of-art facility housing the Department of Biology and Physical Sciences. The Leroy Davis, Sr. Science and Research Complex opened in January 2011.

Selected SC State University Centers, Laboratory and Research Units

- SC State's Center for NASA Research and Technology
- Consortium for K-20 Cybersecurity Workforce Pipeline
- James E. Clyburn University Transportation Center
- SC State Small Business Development Center
- Applied Radiation Science Laboratory (ARSL)
- Basic Elemental Analysis Laboratory(BEAL)
- Environmental Field Station
- The Center for Energy Studies
- Radiation Data Mining Laboratory (RDML)
- Child Development Learning Center (CDLC)

PAST PERFORMANCE

- As South Carolina's only public, historically black college and university (HBCU), there are several programs unique to SC State University.
 - The only Bachelor of Science program in Nuclear Engineering in South Carolina and at an HBCU.
 - A Bachelor of Science degree in Physics with an option in Medical Physics. Graduates of this program are prepared to enter employment in the field or go on to graduate school.
 - The only Master of Science degree in Transportation and the only Master of Business Administration degree with a concentration in Agribusiness in South Carolina.
 - The only Doctor of Education degree in the state with a concentration in education administration. SC State is ranked third in the nation in graduating minorities with the doctor of education degree.
- A Top 10 ranking for most enrolled ROTC cadets (No.1 in HBCU) and No.1 ranking in social mobility for three years (2006, 2007, and 2009) from Washington Monthly.
- The only HBCU to be ranked as an over performing College in the U.S. and No. 5 among national public HBCUs by U.S. News and World Report.
- SC State's Beta Gamma Sigma chapter was named an Exemplary Chapter International Honor Society in Fall 2012.
- Identified as the exclusive HBCU for research in the State of South Carolina by Forbes Magazine.