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Coppin State University Capability Statement

Institution: **Coppin State University**

DUNS No: **085001154**

Cage Code: **OWFL7**

NAICS ID: **611310**

SIC: **8221**

Federal EIN No: **52-6002033**

Certificates, Registrations,
Accreditations:

Middle States Commission on Higher Education; Carnegie Master's Comprehensive (MA-I); University System of Maryland; NCATE; CCNE; CACREP; CSWE; CAHIM; and ACBSP

POC Information:

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OVERVIEW

Coppin State University, a historically black institution in a dynamic urban setting, serves a multi-generational student population and provides innovative education opportunities while promoting lifelong learning. The University fosters leadership, social responsibility, civic and community engagement, cultural diversity and inclusion, and economic development. New academic programs include a **Data Science degree**, a Bachelor's of Science in Nursing (BSN) to Doctor of Nursing Practice (DNP) pathway, and **Natural Sciences graduate programs - the Master of Science Degree in Applied Molecular Biology and Biochemistry and the Master of Science Degree in Polymer and Material Sciences.**

RESEARCH CAPABILITIES

University Trans-disciplinary Research: Coppin's core research strengths include investigating emerging trends and effectiveness of innovative solutions that address systemic society needs. Our university research projects embed values and practices of diversity, equity, and environmental inclusion.

College of Health Professions faculty and graduate students create and test practices in holistic, health care with an emphasis on vulnerable and under-served populations. Research outcomes focus on improving the outcomes and social determinants of health.

The College of Arts and Sciences and Education comprises a diverse range of research scope and transdisciplinary collaborations.

Department of Natural Sciences: Polymer and material sciences including synthesis of small bio-organic molecules, synthesis of metal complexes, quantum dots and nanoparticles, micro-plastics, emerging contaminants, climate change and environmental justice; applied molecular biology and biochemistry

Department of Mathematics and Computer Sciences: current research programs include Mathletics middle grades program (NSF funded) in sports data analytics, statistical concepts and the data science and the Cybersecurity Education Diversity Initiative (CEDI), a DoD initiative that assists Historically Black Colleges and Universities (HBCU) build cybersecurity programs.

FACILITIES

The Gold LEED certified, Science and Technology Center (STC), which houses science related disciplines including natural sciences, biology, physics, chemistry, general sciences, and environmental sciences, preparing students to enter professional schools in dentistry, pharmacy, and medicine or to pursue careers in industries of science and technology. STC also includes academic and research space to support mathematics and computer science programs.

The Center for Organic Synthesis conducts research on synthesis of small bio-organic molecules that can be used for clinical diagnosis (bio markers) and understand the pathogenic mechanisms underlying the clinical manifestations of diseases.

Center for Nanotechnology conducts research on synthesis of metal complexes, quantum dots and nanoparticles, Dye sensitized and multi-junction solar cell in the areas of nanoscience, laser photochemistry, electro-chemistry and PV energy.

Health and Human Services Building (HHSB) houses six Health Assessment Simulation Laboratories. Each simulation laboratory is fully equipped with various operational equipment and high-fidelity (a terminology in nursing that means the electronic reproduction of sound and physiology action) manikins that allow the environment to be a realistic depiction of a real hospital. Two medical surgical lab high-fidelity simulators, two high-fidelity pediatrics/obstetrics simulators, and two high-fidelity advanced medical surgical simulators. Within HHSB, the College of Behavioral and Social Sciences, which includes Psychology, Counseling and Behavioral Health, Criminal Justice, Applied Social and Political Sciences, and Social Work also has independent living labs, a forensics laboratory, and moot courtroom.

The Center for Strategic Entrepreneurship in the The College of Business is slated to occupy a newly renovated space in 2023 and develops innovative, sustainable entrepreneurship models and sector-specific solutions to 21st Century challenges in learning competencies, relational competencies, workforce infusion, and loss of trans-regional industrial networks. Programs are organized into three operational pillars: Economic Development, Education, and Social and Community Innovation.

PAST PERFORMANCE

U.S. Army Medical Research and Materiel Command, Assessment of the Ability of the medical health care provider to detect manifestations indicative of TBI and management of care for TBI through the utilization of High Fidelity Simulation.

NASA Science Activation Program (SaSa) summer internship program.

NSF Centers of Research Excellence in Science and Technology (CREST) planning grant that to establish an Integrative Center for Emerging Contaminants.