



Capability Statement

Institution: Drake State Community & Technical College

UEI Number: **Y6RMRVLNFZK1** CAGE Code: **1Z450** NAICS ID: **611210** SIC: **8222** Federal
 EIN No: **63-0439942**

Certificates, Registrations, Accreditations: SACSCOC, ACEN (for LPN and RN programs), ASE Education Foundation, NIMS, NCCER, IPC620, IPC 610 Soldering, IPC J-STD-001, OSHA 10-30 Construction, National Electrical Code Certification 2023, Solid Edge Associate, CSWA/CSWP, Six Sigma Quality Belts, NC3, NC3 PMI

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Overview:

Drake State Community & Technical College is a two-year, Historically Black College and University (HBCU) located in Huntsville, Alabama, and is part of the Alabama Community College System. Founded in 1961, Drake State began as a vocational and technical school dedicated to providing workforce training to underserved populations. Today, the college has evolved into a comprehensive institution offering a mix of academic transfer and career and technical programs.

Drake State provides students with a high-quality, affordable education in high-demand fields such as Advanced Manufacturing, Engineering Design, Health Sciences, Information Technology, and Business. With small class sizes, hands-on learning environments, and industry-aligned curriculum, the college prepares students for immediate employment or seamless transfer to four-year institutions.

As a hub for workforce development in the Tennessee Valley region, Drake State partners with business, industry, government, and community organizations to address regional economic needs, promote innovation, and create equitable access to education and career opportunities.

Facilities:

Concrete 3D printing laboratory – 8 foot 6-Axis articulating ABB robot (2.9m of reach) retrofitted to 3D print cementitious structures and/or samples.

Additive Manufacturing Classroom & Post Processing Lab – Markforged Mark Two Reinforced Filament & Fiber 3D printer, Makerbot Filament 3D printers, Formlabs Form 3L, 2, and 2B Resin SLS 3D Printers. Markforged Metal X Metal (FFF) 3D Printer, 3 Formlabs Form Cure, 3 Formlabs Form Wash's. **Engineering Design Classroom** – GCC CO₂ Laser Engraver & Cutter, C. R. Clarke 911 Plastics Thermoforming Center & Oven.

Machine Tool Facility – CNC 3-axes and 5-axes mills; lathe with live tooling, jet manual, and collet lathes; grinding, drilling, and sawing equipment.

Computer Information Technology Laboratories – Apple laboratory, SYSCO laboratory, COMPTIAcertified Academy and Testing Center.

Research Capabilities:

Advanced Manufacturing welding, robotic welding, and plasma cutting; machine tool and precision milling / turning; mechatronics, electrical engineering, and robotics maintenance.

Additive Manufacturing computer-aided design and drafting software, finite element analysis software, additive manufacturing of polymer components, cementitious structures, and various metals (Stainless Steels, Inconel, Copper, Aluminum, Titanium, Tool Steels, etc.)

Health Sciences nursing career pathways for CNA, MAC, LPN, and RN medical professionals. **Math and Computer Sciences** IT networking, cyber security, systems administration, and web development.

Past Performance:

National Aeronautics Space Administration (NASA), which includes two cooperative agreements on additive manufacturing of concrete structures applicable to lunar exploration and design and prototyping lunar habitat outfitting components. MUREP INCLUDES grant for expanding engineering career pathways to minorities who are historically underrepresented in STEM. U.S. *Department of Commerce* grant to expand access to broadband to minority communities of Madison County, Alabama. U.S. *Department of Labor Strengthening Community Colleges* grant to support the Federation for Advanced Manufacturing Education (FAME) program.