CAPABILITIES STATEMENT

Alabama Agricultural and Mechanical University
Kenneth Sartor, PhD, *Interim Director*
AAMU-RISE: Research, Innovation, Science, Engineering
Office: (256) 372-5673 | kenneth.sartor@aamu.edu

ABOUT AAMU-RISE

Alabama Agricultural and Mechanical University (AAMU) is a historic, student-centered, and community-focused institution of higher learning. As a Historically Black College and University (HBCU) and a traditional 1890 land-grant institution, AAMU is committed to excellence in teaching, research, and public service, including extension.

Through state-of-the-art laboratories, AAMU's internationally recognized faculty and researchers apply their expertise to innovative research in emerging fields such as additive manufacturing, biotechnology, and solar hybrid energy systems. By strengthening research and contract capabilities through organizations like AAMU-RISE, HBCUs expand revenue opportunities while providing students with hands-on, real-world experience that prepares them to succeed in today's competitive workforce.

NAICS CODES

DUNS: 079704930

CAGE: 7COE3

Federal EIN No: 46-4776909

Certificates and Registrations:
SAM – Registered

541330	Engineering Services
41380	Testing Laboratories
41511	Custom Computer Programming Services
541512	Computer Systems Design Services
541513	Computer Facilities Management Services
541712	Research/Development in the Physical, Engineering, and Life Sciences
541611	Administrative/General Management Consulting Services
611430	Professional/Management Development Training

FACILITIES INCLUDE:

- Mach 4 Supersonic Wind Tunnel Testing and Evaluation Center
- Mach-5 wind tunnel
- Microelectronics Fabrication Facilities / Clean Room
- Surface Analysis Laboratory
- Electrical Characterization Laboratory
- Tandem Accelerators (Pelletron & Tandetron)
- Cyber Security

AAMU-RISE CORE COMPETENCIES

CENTER FOR AI/ML & CYBERSECURITY

- Artificial Intelligence(AI) and Machine Learning
- Cybersecurity & Threat Intelligence
- Advanced Computing and Edge AI
- Data Science & Analytics for Critical Applications
- Defense, Energy, and Assistive Technologies
- Large & Visual Language Models (LLMs & VLMs)

CENTER FOR MICROELECTRONICS & MATERIALS

- Integrated circuit design and fabrication
- Crystal growth
- Large and small bandgap and piezoelectric materials
- Nonlinear optical materials
- Rating 1000 clean room
- Nanotechnology
- Microgravity research
- Cyber Security

CENTER FOR SENSORS & SYSTEMS

- Image and signal processing
- Real-time embedded systems
- Seismic data processing
- Modeling and simulation in biometrics
- Computational electromagnetics
- Computational fluid dynamics
- Unmanned aircraft systems
- Chemical sensors
- Robotics
- Finite element analysis

CENTER FOR TECHNICAL ASSISTANCE

- Advanced and additive manufacturing
- Biotechnology and genetic engineering
- Biofuels
- Renewable and green energy
- Geophysics and seismology expertise
- Environmental research
- Food microbiology
- Food biotechnology
- Nutritional biochemistry
- Food Engineering

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RISE
ALABAMA A&M UNIVERSITY

Alabama A&M University
4900 Meridian Street N.
Huntsville, AL 35811
www.aamu.edu