



Institution: Alabama A&M

AAMU-RISE Foundation Capability Statement

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SIC: **8711, 8748, 7371, 7373, 7379, 7376, 3761, 3764**

Certificates, Registrations, Accreditations:

SAM, ABET, SACS

POC Information:

Dr. Chance M. Glenn, Executive Director/President AAMU-RISE Foundation and Dean, AAMU College of Science, Engineering, Technology and Physical Sciences
Address: 4900 Meridian Street North; Normal, AL 35762
Tel: (256) 372-5866; email: chance.glenn@aamu-rise.org

OVERVIEW:

The AAMU-RISE Foundation, a 501(c)3 corporation, is the contracting entity for Alabama A&M University and leverages all research disciplines at AAMU. Areas of expertise include defense, aerospace, cyber security, sustainable energy sources, as well as food production and emerging biotechnologies. Capabilities include conducting and validating market analyses to determine the commercial potential of a technology before an R&D project is funded; recommending and refining metrics and measures to gauge commercialization and technology transfer successes; as well as providing experience and knowledge of innovative best practices to increase transfer and commercialization of new technologies. In addition to fulfilling the needs of federal agencies, we also are capable of collaborating with industry and other academic institutions.

RESEARCH CAPABILITIES:

TECHNOLOGY DEVELOPMENT & TRANSFER: Advanced and additive manufacturing, unmanned aircraft systems, Mach-5 wind tunnel, rating 1000 clean room, robotics, nanotechnology, microgravity research, renewable and green energy, sensors.

MATERIALS SCIENCE AND ENGINEERING: Integrated circuit design and fabrication, crystal growth, large and small bandgap and piezoelectric materials, nonlinear optical materials.

COMPUTER SCIENCE AND ANALYSIS: Image and signal processing, real-time embedded systems, cyber security, neural networks, modeling and simulation in biometrics, computational electromagnetics, computational fluid dynamics, finite element analysis.

BIOLOGY AND AGRICULTURE: Biotechnology and genetic engineering, biofuels, chemical sensors, environmental research, food microbiology, food biotechnology, nutritional biochemistry, food engineering.

FACILITIES: The AMU-RISE Foundation has access to world-class facilities through its connection with Alabama A&M University as well as other technical partners. State-of-the-art research facilities on the AAMU campus include:

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

PAST PERFORMANCE:

The AAMU-RISE Foundation is proficient in executing R&D contracts as both a prime and a subcontractor. Effectiveness on a direct agency contract has been demonstrated through past performance with MDA, where the AAMU-RISE Foundation team provided expertise on the lifecycle of missiles. Other experience includes testing a turbopump bearing system for the Marshall Space Flight Center. The AAMU-RISE Foundation has just completed Phase I of a small business technology project involving additive manufacturing, or 3D printing, for NASA; and the AAMU-RISE Foundation currently is partnering with a prominent defense contractor to demonstrate the technical feasibility of autonomous systems that reduce daily tasks of military pilots.