# 2020 Research Capabilities Statement

**Office of Research and Sponsored Programs | (229) 430-3690 | orsp@asurams.edu**

Albany State University

*Albany State University (ASU) is a public institution in the University System of Georgia. Established in 1903, ASU, a Historically Black Institution, fosters the growth and development of the Southwest GA region, state and nation through teaching, research, creative expression and public service. ASU embraces and encourages research as a key component of faculty scholarship and student training with over forty undergraduate and twelve graduate programs offered through three colleges; College of Art and Sciences, Darton College of Health Professions and the College of Professional Studies. ASU is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to offer associates, baccalaureate, masters and specialist degrees.*

**CAGE CODE: 9W263**
**DUNS: 030052815**
**FEIN: 58-6001996**
**SAIC: 8221**

## CORE Competencies

- Agricultural Water Use/Efficiency analysis
- Analytics and Machine Learning
- Behavioral Economics
- Block Chain
- Bioinformatics
- Biotechnology
- Cell/Molecular Biology
- Chemical Sensors
- Computational/Molecular Modeling
- Cybersecurity
- Data Analytics and Data Mining
- 3-D Printing/Prototyping
- Economic/Labor Policy Research
- Education Research and Innovation
- Education Research-Fragile Communities
- Electrochemistry
- Environmental Analysis/Remediation
- Environmental Economics
- Environmental Impact
- Environmental Policy Development
- Forensic Science
- Fuel/Solar Cells and Energy
- Geographic Information Systems
- Health Disparities
- Mental Health/Suicide Prevention
- Microbial Ecology/Toxicology
- Nanoscience and Nanotechnology
- Organic Synthesis
- Pre and In Service Teacher Training
- Plant Molecular Genetics
- Stakeholder Decision-Making/Facilitation
- Supply Chain & Logistics
- Technology Transfer/Extension
- Water Use/Quality

## NAICS Codes

611310
541712
541713
541714
541614
325413
924110
541715
541370
541620

## Certificates, Registrations, Accreditations

SAM
ACBSP
ACEN
ACS
CAEP
CSWE
FEPAC
NASPAA
SACSCOC

## Specialized Instrumentation

Microscopy: Scanning Electron, Fluorescence, Bullet/Fiber Comparison, FTIR

Chromatography: GC, GC-MS, HPLC

Spectroscopy: Infrared, NMR, UV/Vis, Raman

Real time PCR

DNA Analyzer, Particle Size Analyzer

3-D Printing

Flow Cytometry, Bio-imager

Environmental Chamber

GIS equipment for data collection/management

## Past and Current Performance  *DOD, EPA, HRSA, NASA, NSF, NIH, NIJ, SAMHSA, USDA*

**Department of Defense:** Blockchain, Cancer research, Cell viability and toxicity of organophosphorus compounds, Chemical sensors for chemical nerve agents using nanomaterials, Cybersecurity, Electrochemistry and methanol fuel cells, Supply Chain & Logistics

**HRSA/SAMHSA:** Health disparities, HIV/AIDS, Suicide prevention

**National Science Foundation:** STEM education, Nanoscience and Nano-technology, Plant biology, Electrochemistry, Renewable energy, Cybersecurity

**National Institutes of Health:** Prostate cancer research, Electrochemical sensors, Anticancer drug, Targeted drug delivery systems, Molecular modeling, Nanomaterials , DNA specific sensors

**Environmental Protection Agency:** GIS Mapping, Water demand and conservation analysis, Water quality

**National Institute of Food and Agriculture:** Behavioral economics, Conservation

**National Institute of Justice:** Criminal justice, Forensic detection, Microbial communities