

CAPABILITY STATEMENT

DUNS No: 06-532-5177

EIN No: 58-1825259

Cage Code: OMFV5

CYBERSECURITY | DATA SCIENCE | RESEARCH COMPUTING



Clark Atlanta University (CAU) is a comprehensive, private, coeducational, four-year university established in 1988 by the consolidation of **Atlanta University (1865)** and **Clark College (1869)**. The Carnegie Classification of Higher Education Institutions recognizes CAU as a doctoral, high research activity, R2 university. Accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACS COC), CAU offers its 3,911 students (FY18) 38 undergraduate and graduate study areas. CAU is home to the Center for Cancer Research and Therapeutic Development (A CAU Center of Excellence) and four other research centers. The Thomas W. Cole, Jr. Research Center for Science and Technology and the Environment Science and Engineering Research Building is home to 230,000 sq. ft. of research space, 80+ labs, and seven core facilities. Four patent applications are currently pending. In addition to being the largest collegiate institution in the Atlanta University Center Consortium, U.S. News and World Report 2019 edition of Best Colleges ranks CAU Tier 2 in National Universities and 15 among Historically Black Colleges and Universities (HBCUs).

CORE CAPABILITIES

Life Sciences

- Bioinformatics
- Biotechnology/Biology/Economics
- Cell Biology
- Genomics
- Mental Health/Prevention
- Molecular Biology
- Prostate Cancer Research
- Proteomics
- Public Health
- Toxicology

Materials Science

- Biofuel/Energy
- Fabrication
- High-Performance Polymers and Composites Safety
- Nanoscale Materials
- Nanostructure Composites

Computer Science and Cyber-Physical Systems

- Computer Systems and Software Design Services
- Cybersecurity
- Data Management and Analytics Services
- Embedded Computing & System Engineering
- Multidimensional Signal Processing

Services

- Administrative Management/General Management Consulting Services
- Business Mentoring Multi-Dimensional Prototyping
- Custom Computing Programming Services
- Innovation and Design Thinking Courses and Workshops
- Professional/Management Development Training
- R&D in the Physical, Engineering, and Life Sciences
- Supply chain management & logistics
- Testing laboratories
- 3-D Printing and Prototyping

Mathematics & Physics

- Atomic and molecular theory
- Condensed Matter
- Image Processing Mathematical Physics Theory
- Low-Energy Scattering Theory
- Mathematical Physics/Applied Mathematics
- Solid-state Theory
- Statistics
- Wavelet Analysis

Certificates, Registrations, Accreditations:
SACSCOC, AACSB, CSWE, CACREP,
NSPPAA, NCATE, GAPSC



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NAICS/SIC Codes

541380: Testing Laboratories
541511: Custom Computer Programming Services
541512: Computer Systems Design Services
541513: Computer Facilities Management Services
541611: Administrative Management/ General Management Consulting Services
541715: Research & Development in the Physical, Engineering, and Life Sciences
541519: Other Computer Related Services
541720: Research & Development in Social Sciences and Humanities

611310: Colleges, Universities, and Professional Schools
611420: Computer Training
611430: Professional/Management Development Training
923110: Administration of Education Programs
923120: Administration of Public Health Programs
8732: Commercial Economic, Sociological, and Educational Research
8733: Noncommercial Research Organizations

RESEARCH CENTERS

The Center for Cancer Research and Therapeutic Development (CCRTD) A CAU Center of Excellence

The Center for Innovation and Entrepreneurial Development (CIED)

The Center for Undergraduate Research and Creativity (CURC)

The Center for Electronic Materials & Photonics (GEMP)

Laboratory for Prototype Lithium-Air Batteries (ProLAB)

PAST PERFORMANCE CYBERSECURITY, DATA SCIENCE, RESEARCH COMPUTING

National Science Foundation CISE/CNS

"Excellence in Research: A Network-Centric Framework for Cyber-Threat Intelligence"
Dr. Roy George
Amount: \$249,990
Grant/Contract: No. FAIN 1901150
6/1/2019 – 5/31/2022

Northrop Grumman Corp
"Soldier Performance Monitoring"
Dr. Khalil Shujaee
Amount: \$185,000
Grant/Contract: Proj. 2017-007
01/2/2018 – 01/01/2022

**Department of Defense
AFRL | Collaboration Program**
"Sensors Research SUBCONTRACT from Clarkston Aerospace Corporation"
Dr. Roy George
Amount: \$129,748
Grant No. FA8650-13-C-5800:14-7700-02-C2
9/3/13 – 11/15/18

HHS-NIH-NIGMS
"Research Initiative for Scientific Enhancement (RISE)"
Dr. P. Musey
Amount: \$4,468,608
Grant/Contract: R25GM060414
6/1/13 – 5/31/21

HHS-NIH-NIA
"Molecular Mechanisms Underlying Initiation of Cell Growth in the Aging Prostate"
Dr. Z. Wang

**Department of Defense
Army | Spatio-Temporal**
"Modeling of Population Migration In Geographical Information Systems An Afghanistan Case Study"
Dr. Roy George
Amount: \$30,000
6/1/16 – 9/30/17

**Department of Defense
Army, Army Research Office**
"High Performance Computing and Enabling Technologies for Bio-Systems and Interfaces"
Dr. Roy George
Amount: \$400,000
Subcontract: Carolina A&T State University 2101318A
W911NF-11-1-0168,
5/01/2011 – 09/30/2014

**Department of Defense
Army | Corp of Engineers ERDC**
Grant/Contract: W9132T-12-C-0007
Amount: \$119,295
10/01/2011 – 09/30/2012

National Science Foundation HRD
"Targeted Infusion Project: Development and Implementation of Computational Chemistry and Biology Courses with Research Integration"
Dr. Dinadayalane Tandabany
Grant/Contract: 1623287
Amount: \$399,698
9/1/2016 – 8/31/2021

National Science Foundation MCB
Excellence in Research: Crosstalk between the STK4/Hippo and NF-Kappa B pathway in mammalian cells
Dr. Bekir Cinar
Grant/Contract: 1832022
Amount: \$499,511
9/1/2018 – 8/31/2021

Department of Defense USAMRAA
"Direct Targeting of the FKBP52 Cochaperone for the Treatment of Castration-Resistant Prostate Cancer"
Dr. Jaideep Chaudhary
Grant/Contract: W81XWH-17-1-0437
Amount: \$507,043
8/1/2017 – 7/31/2021

Department of Defense USAMRAA
"Continuous AhR Activity Accelerates Prostate Cancer Progression in African-American Men"
Dr. Joann Powell
Grant/Contract: W81XWH-17-1-0274
Amount: \$670,287
7/1/2017 – 6/30/2021

Department of Defense ARO
"Stabilizing and Recovering Polymeric Nanoscale Assemblies Utilizing Dynamic Covalent Bonds"
Dr. Ishrat Khan
Grant/Contract: W911NF-20-1-0272
Amount: \$659,999
7/31/2020 – 7/31/2023



CAU CLARK ATLANTA
UNIVERSITY

LEARN ABOUT OUR PROGRAM

www.cau.edu/research-sponsored-programs/index.html

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