

## Bowie State University Capability Statement

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## 1.) Institutional Overview

### At a Glance

- **Name:** Bowie State University
- **Location:** Bowie, Maryland
- **Founded:** 1865
- **Enrollment:** 6,000
- **Classification:** Comprehensive, Public HBCU
- **Graduate Programs:** 21+ Master's Programs; 18+ Post-Bachelor's Certificates; 3 Doctoral Programs

### Primary IAA Program Contact

- **Name:** Yvonne Harris, PhD
- **Title:** Vice President for the Division of Research and Innovation
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- **Phone:** 301.860.6022

### Strategic Alignment with State Priorities

- Bowie State is committed to advancing Maryland's priorities in inclusion, social mobility, innovation, economic development, and community impact. Through its faculty, research centers, exceptional capabilities and talented student body and alumni, Bowie State is well-positioned to support State agencies with high-quality services delivered under Interagency Agreements (IAAs).

## 2.) Core Capability Domains

Bowie State University offers contract-ready services across the following:

- Data, Evaluation & Analytics
  - Bowie State provides program evaluation, survey design, data collection, and applied analytics to support evidence-based policy and performance measurement. Faculty across social sciences, business, education, and public administration contribute expertise in mixed-methods research and applied assessment.
- Economic & Policy Research
  - The University conducts applied policy analysis, economic development studies, and social impact research focused on workforce development, equity, public health, education systems, and community well-being.
- Technology, Cybersecurity & AI
  - Bowie State offers capabilities in information systems, cybersecurity risk assessment, AI applications, and digital systems design. Faculty research includes secure

computing, automation, data infrastructure, and ethical technology use in public systems.

- Bowie State's nationally recognized cybersecurity program, designated as a National Center of Academic Excellence in Cyber Defense by NSA/DHS, anchors advanced capabilities in secure computing, digital forensics, AI, and cyber-physical systems. Faculty and research labs actively partner with federal agencies including the Army Research Lab, NAVAIR, DARPA, and NSF to deliver cutting-edge research and workforce-aligned solutions.
- Training, Professional Development & Capacity Building
  - The University designs and delivers customized professional training, certification programs, workforce upskilling, leadership development, and continuing education for public sector and community-based organizations
- Communications, Outreach & Community Engagement
  - Bowie State supports stakeholder engagement, community-based participatory research, survey outreach, public education campaigns, and facilitation of community forums across Maryland.
- Specialty Domains (Institution-Specific)
  - Key specialties include public health, education, business analytics, cybersecurity, nursing, teacher preparation, and community-based research focused on underserved populations.

### **3.) Representative Services and Offerings**

Under these domains, Bowie State University can provide services such as:

- Program evaluation and impact assessments
- Survey and data collection design and analysis
- Workforce and labor market research
- Applied policy analysis and equity assessments
- Cybersecurity and IT readiness evaluations
- AI use-case advising and digital transformation support
- Digital forensics and secure system analysis
- Professional development and customized training programs
- Technical assistance for community and small business initiatives
- Workforce certification training (CompTIA, AWS, IBM)
- Data science and machine learning analytics
- STEM pipeline and K-12 program design
- Public engagement and stakeholder facilitation
- Health, education, and social systems research

#### 4.) Representative Past Performance and Experience

- **Workforce Development Research – Maryland Department of Labor**
  - **Scope:** Conducted applied research and data analysis to assess workforce development programs, labor market trends, and participant outcomes across priority industries.
  - **Role:** Program evaluation, data collection, quantitative and qualitative analysis, and reporting.
  - **Outcomes:** Produced workforce analytics, evaluation reports, and policy-relevant insights used to inform program improvement and workforce planning strategies.
- **Cybersecurity Capacity Building – Federal and Industry Partners**
  - **Scope:** Designed and delivered cybersecurity-focused curriculum, certification-aligned training, and applied research projects to strengthen workforce readiness in secure computing and information assurance.
  - **Role:** Technical research, curriculum development, workforce training, and student pipeline development.
  - **Outcomes:** Increased certification readiness, strengthened cyber talent pipelines, and supported organizational risk awareness and cyber workforce capacity.
- **Public Health & Community Well-being Projects – Local & Foundation Partners**
  - **Scope:** Led community health needs assessments, program evaluations, and applied research focused on health disparities, access to care, and community well-being in underserved populations.
  - **Role:** Survey design, community-based data collection, mixed-methods analysis, and stakeholder engagement.
  - **Outcomes:** Delivered actionable evaluation findings and community reports used to guide public health interventions and grant-funded initiatives.
- **Center for Data Analytics Initiatives – State & Nonprofit Partners**
  - **Scope:** Provided program evaluation, survey research, data storytelling, and technical assistance to support evidence-based decision-making for public and nonprofit programs.
  - **Role:** Mixed-methods research, applied analytics, student-led data projects, and stakeholder reporting.
  - **Outcomes:** Produced dashboards, evaluation briefs, and visual analytics that improved program monitoring, reporting, and strategic planning.
- **Entrepreneurship & Small Business Technical Assistance – Community and Economic Development Partners**
  - **Scope:** Delivered applied research, training, and advisory services to support small businesses, entrepreneurs, and community-based economic development initiatives.

- **Role:** Business analytics, market research, training facilitation, and technical assistance.
- **Outcomes:** Strengthened business planning capacity, supported entrepreneurship pipelines, and improved access to data-informed decision-making for small enterprises.

## 5.) Research Centers, Labs, and Institutional Assets

Bowie State University brings specialized research and operational capacity through:

- **Center for Data Analytics (CDA)**
  - Applied data analytics, program evaluation, and evidence-based research for public and nonprofit sectors.
- **Cybersecurity and Advanced Computing Labs**
  - Secure systems research, AI applications, and workforce training.
  - Center for Cybersecurity and Emerging Technologies, Autonomous Technologies Lab, Cybersecurity & Virtual Reality Lab, Intelligent Engineering Lab (INTELLI), Biomedical Informatics Lab, Cyber-physical Systems & ML Lab
- **College of Business**
  - Economic analysis, business analytics, entrepreneurship, and organizational research.
- **College of Arts & Sciences**
  - Social, behavioral, and policy research across disciplines.

These assets enable Bowie State University to deliver high-quality, research-based services under Interagency Agreements.

## 6.) Innovation and Future Focus

Bowie State University is actively investing in the capabilities Maryland agencies will need over the next 10-20 years.

- **Current Innovation Priorities**
  - Expanding capacity in data science, AI, and applied analytics.
  - Strengthening interdisciplinary research in public health, cybersecurity, and workforce development.
  - Scaling experiential learning and applied research models with State partners.
- **Emerging and Planned Specialized Capabilities (10-20 Year Horizon)**

- Expand research centers focused on cybersecurity, digital government, and community resilience.
- Increase faculty research capacity in AI, public systems, health equity, and climate adaptation.
- Grow applied learning pipelines aligned with State agency needs.
- Strengthen cross-sector partnerships with government, industry, and community organizations.
- **Future Value to State Agencies**
  - More complex, multi-disciplinary engagements that combine data, policy, technology, and community engagement.
  - Long-term research and advisory relationships that support strategic planning, innovation pilots, and policy design.
  - A sustained talent pipeline of graduates trained in the skills Maryland needs for its future workforce.

## 7.) Geographic and Community Outreach

Bowie State University has deep ties to communities across Maryland, including:

- **Primary Service Region(s):** Prince George’s County, Baltimore City, statewide reach.
- **Community Partners:** Local governments, nonprofits, schools, healthcare providers, workforce agencies.
- **Focus:** Workforce development, public health, education access, small business support, K-12 pipeline programs, and summer camps

The community footprint provides State agencies with a partner that understands local context and can engage stakeholders effectively.

## 8.) IAA Engagement Readiness

Bowie State University is prepared to perform work under Interagency Agreements (IAAs) for:

- Research, evaluation, and data analytics
- Consulting and advisory services
- Training and professional development
- Certification-based workforce training
- Technical assistance for programs and initiatives
- Cybersecurity, health, education, and workforce projects

## 9.) Primary Contacts

- **Programmatic Contact (for Scoping Opportunities)**
  - Name: Yvonne Harris, PhD

- Title: Vice President for the Division of Research and Innovation
- Email: [yharris@bowiestate.edu](mailto:yharris@bowiestate.edu)
- Phone: 301.860.6022
- **Contract/IAA Contact (for Agreement Structure)**
  - Name: Rafel Rosier
  - Title: Pre-Award Services Manager, Office of Research and Sponsored Programs
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  - Phone: 301.860.4398

## **10.) Key Personnel (Abbreviated)**

- Eona Harrison, PhD – Director of The Center for Data Analytics
  - Expertise: data analytics and storytelling, data-driven decision-making, program evaluation, public policy analysis, mixed-methods research, impact evaluation, research training and capacity-building, community-health, market research
- Steven Damo, PhD– Dean of Arts & Sciences
  - Expertise: Cybersecurity, artificial intelligence, and advanced computing; environmental, biological, and chemical sciences (biotech, molecular biology, lab-based research); social and behavioral science research (equity, policy, and community impact)
- Mohamed Djerdjouri, PhD – Dean of the College of Business
  - Expertise: Economic and workforce development analysis, business analytics, financial analysis, accounting, and organizational performance improvement, supply chain, management, and operations strategy
- Rhonda F. Jeter, PhD – Dean of the College of Education
  - Expertise: teacher preparation, certification, and workforce pipeline development; curriculum design, instructional effectiveness, and learning assessment, educational program evaluation and outcomes measurement
- Cheryl Blackman, PhD – Dean of the College of Professional Studies
  - Expertise: Workforce development and career-aligned certification programs; public service, human services, and applied social science research; criminal justice, public safety, and community resilience; organizational leadership and applied professional training, interdisciplinary applied research supporting government and community programs