

Developing Future Cybersecurity Leaders

With cyber-crime threats to businesses and government agencies on the rise, Bowie State University works with industry leaders to provide unique educational offerings, hands-on learning experiences, college pathways programs, and real-world opportunities to develop qualified professionals to defend the nation against cyber-attacks.

Bowie State has the expert faculty, specialized labs for high-tech innovation, and strong industry partners needed to meet the growing demand for highly skilled cybersecurity professionals. Our graduates in information technology fields are prepared to tackle the world's cybersecurity challenges.



bowiestate.edu/cybersecurity



Meeting the World's Cybersecurity Needs

At Bowie State University, we are preparing future cybersecurity leaders by enabling students to develop innovative solutions to protect the nation's IT infrastructure and creating pathways for minority youth to gain hands-on experiences.

Unique Educational Offerings

- BSU is the only University System of Maryland institution offering a computer technology bachelor's degree.
- Within the University System of Maryland, BSU offers the only Master of Science degree in management information systems, with a concentration in information assurance.

Hands-on Learning

- Students devise solutions to real-world scenarios in specialized labs and explore their ideas for new tech inventions in a BSU makerspace, equipped with 3D printers.
- In hackathon competitions, students gain experience with the latest digital technologies to design the next big innovation or detect and stop cyber threats in simulated environments.
- As part of a capstone course, students build cloud-computing environments to solve cybersecurity problems for industry and government clients.

Faculty Research & Real-world Experiences

- Award-winning research led by BSU faculty enable students to find answers to the world's most challenging problems using emerging and advanced technologies.
- Through industry partnerships and on-campus programs, students get internship placements that empower them to use their skills to build technology solutions.

QUICK FACTS

- A National Center of Academic Excellence (CAE) in Cyber Defense
- Approved by the CAE to award industry-recognized cybersecurity certificates
- A top 5 Maryland producer of African Americans with bachelor's degrees in computer and information sciences (*Diverse: Issues in Higher Education*)
- Since 2016, more than 4,000 middle and high school students have designed digital solutions to everyday problems and learned practical cybersecurity skills through BSU's outreach programs.



Industry-driven Degree Programs

BSU offers cybersecurity-focused curricula in three areas:

- **Computer Science:** accredited doctoral, master's and bachelor's degrees, with cybersecurity specializations, as well as graduate certificates
 - Specialties: machine learning, artificial intelligence and high-performance computing
- **Computer Technology:** accredited bachelor's degree
 - Specialties: alpha/beta testing, cloud computing, prototyping and white hat hacking
- **Management Information Systems:** master's degree, with a concentration in information assurance
 - Specialties: blockchain, cyber analytics, cyber risk management and data science

EMPLOYERS THAT HIRE OUR GRADUATES:

- Google
- Microsoft
- Department of Defense
- IBM
- Booz Allen Hamilton
- Lockheed Martin
- Amazon
- U.S. Naval Research Laboratories



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