



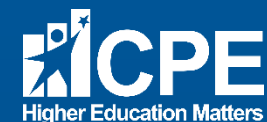
# Cybersecurity

## Kentucky's Current Academic Landscape

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Kentucky Council on Postsecondary Education



# Cybersecurity is an emerging job market

*“Cybersecurity is the art of protecting networks, devices and data from unauthorized access or criminal use and the practice of ensuring confidentiality, integrity, and availability of information.”*

Cybersecurity jobs include:

- Information Security Analysts and Engineers
- Software Developers
- Digital Forensics Analysts
- Intelligence Analysts
- Computer and Information Research Scientists

*Definition: U.S. Department of Homeland Security's Cybersecurity & Infrastructure Security Agency (CISA).  
Jobs listing: ONET.*





# Popularity and need for cybersecurity careers is trending upward



HIGHER EDUCATION

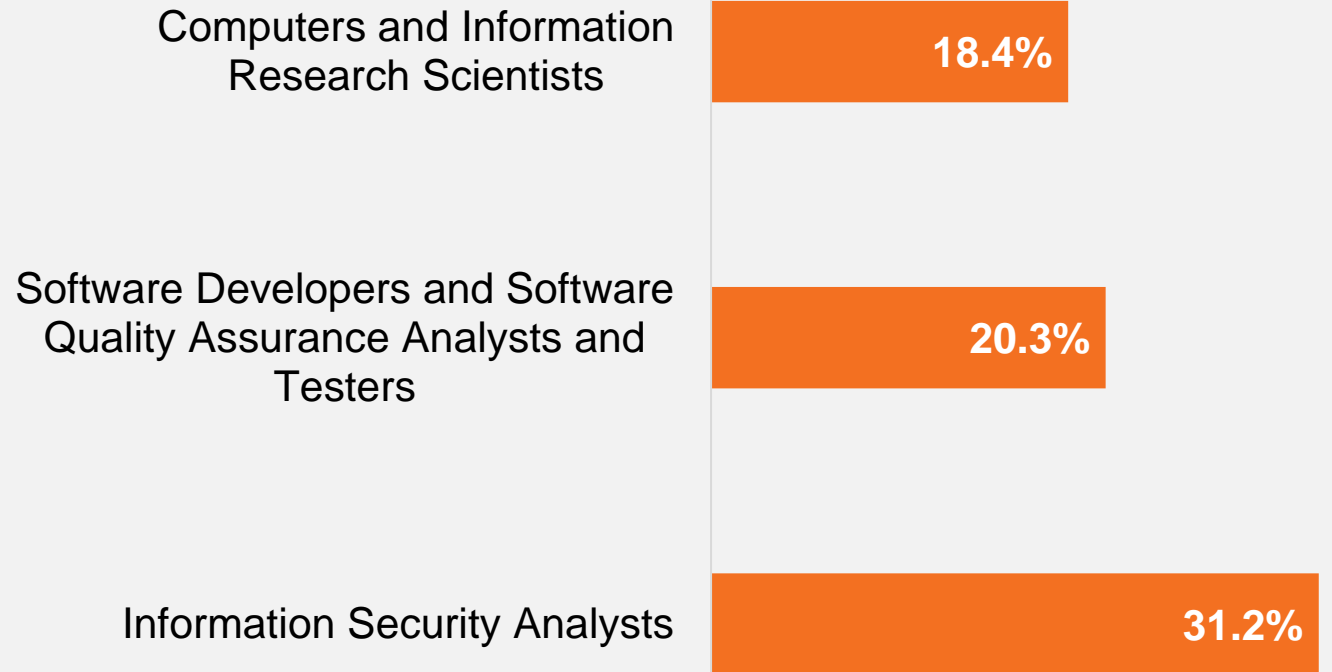
## Cybersecurity Studies Increasingly Popular at US Colleges

Following a record-breaking year for cyber attacks, American institutions are devoting more resources to cybersecurity degree programs in an effort to meet growing demand for qualified professionals in the field.

April 28, 2021 • Brandon Paykamian



## Kentucky's 10-Year Projected Job Growth



Source: Kentucky Center for Statistics 2020-2030 KY Occupational Outlook

# Current landscape: Academic programs

## Undergraduate Certificates - 26

- Cryptography Fundamentals
- Cyber Forensics – Advanced
- Secure Coding – Fundamentals
- Network Defense – Advanced

## Associate Degrees - 2

- Cybersecurity

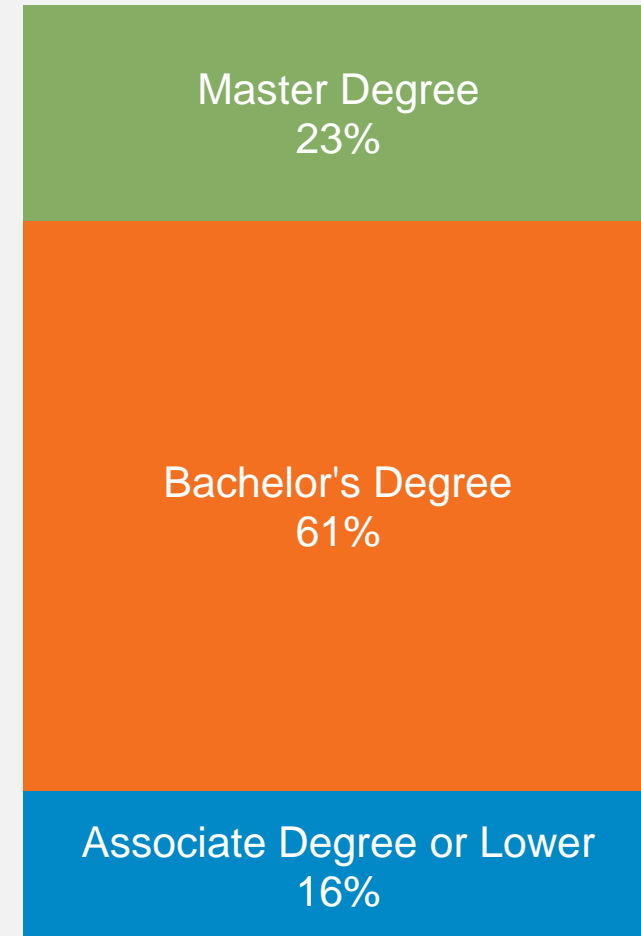
## Bachelor's Degrees - 9

- Cybersecurity & Network Management
- Computer Science
- Digital Forensics & Cybersecurity

## Master's Degrees - 8

- Cybersecurity Data Analytics
- Cybersecurity Management
- Business Administration – Cybersecurity Analytics
- Technology Management

## Trends in Education Levels Requested by Employers

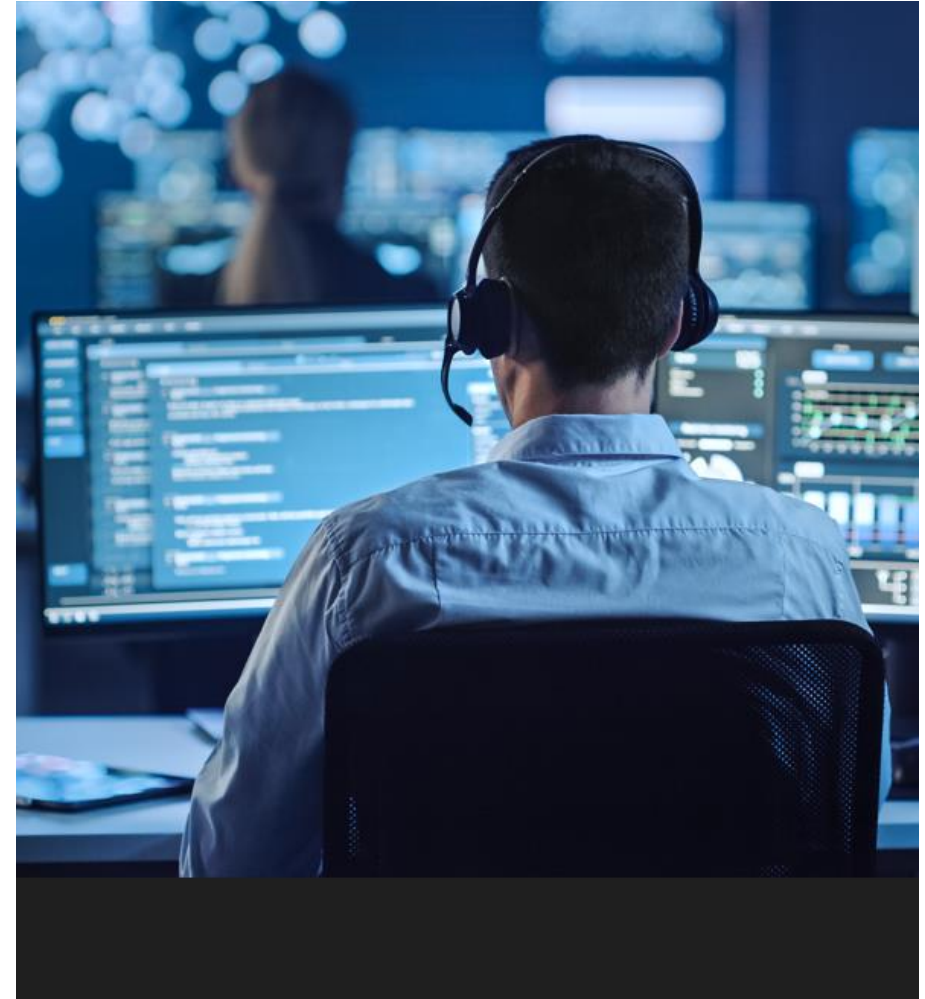


# Current Landscape: Employer Partnerships

Kentucky's postsecondary institutions have partnerships with multiple local, state and national employers.

Types of Employers:

- Healthcare
- Logistics
- Financial
- Manufacturing
- Insurance



# Current Landscape: NCAE-C Recognition

The following institutions have been designated by the National Security Agency/Central Security Service as a Center of Academic Excellence in Cyber Defense Education:

- Bluegrass Community & Technical College
- Murray State University
- Northern Kentucky University
- University of Louisville
- Owensboro Community & Technical College

