



THANK YOU **SPONSORS**





DIAMOND





GOLD











CONFERENCE BAG

MOBILE APP

REGISTRATION







LOCAL HOST PARTNER









INNOVATIVE APPROACHES TO CYBERSECURITY EDUCATION AND WORKFORCE DEVELOPMENT

Safa Shahwan Edwards

Deputy Director, Cyber Statecraft Initiative, Scowcroft Center for Strategy and Security
Atlantic Council

Willie Henderson

Cyber Education Specialist CYBER.ORG

Lien Diaz

Director, Educational Innovation and Leadership, Constellations Center for Equity in Computing Georgia Tech

Moderator: Michael Prebil
Policy Analyst, Center on Education & Labor
New America





Get Involved in K12 Cybersecurity Education



Dec 5-6, 2022 | St. Louis, MO

Submit a presentation by June 24!

K12 Cybersecurity Education Community of Interest

Monthly Meetings

Active Projects

Resources

And more!





CAE DESIGNATION CEREMONY

Lynne Clark

Chief, National Centers of Academic Excellence in Cybersecurity (NCAE-C) Program

National Security Agency





National Centers of Academic Excellence in Cybersecurity







2022 Designation Ceremony

Athens State University



Athens, AL
Bachelor of Science in Management of Cybersecurity Operations with
a minor in Information Systems Management

Wallace State Community College



Hanceville, AL
Cybersecurity and Networking Technology AAS

The University of Arizona



Tuscon, AZ

Master of Science in Management Information Systems, Concentration: AZSecure

California State Polytechnic University, Pomona



Pomona, CA

BS in Computer Information Systems Option with Information Security and Forensics Career Emphasis

California State University, San Bernardino



San Bernardino, CA
Bachelor of Science in Information Systems and Technology

Fullerton College



Fullerton, CA
Cybersecurity Analyst Certificate

Colorado Mesa University



Grand Junction, CO
Bachelor of Computer Science with Professional Certificate in Cybersecurity

Colorado State University-Pueblo



Pueblo, CO

Bachelor of Science in Computer Information Systems, (Cyber Security Emphasis)

Eastern Florida State College



Bachelor of Applied Science in Computer Information Systems Technology Cybersecurity Specialization with the Advanced Technical Certificate in Network Security Forensics

Nova Southeastern University



Ft. Lauderdale, FL

Master of Science in IA & Cybersecurity

Augusta University



Augusta, GA
Bachelor of Science with a major in Cybersecurity

College of Coastal Georgia



Brunswick, GA

Bachelor of Science with a major in Criminal Justice Concentration in Cyber Defense

Georgia State University



Atlanta, GA

Master of Science in Information Systems (MSIS) with a concentration in Cybersecurity

Gwinnett Technical College



Lawrenceville, GA

Associate of Applied Science in Cybersecurity

Kennesaw State University



Kennesaw, GA
Bachelor of Science in Cybersecurity

College of DuPage



Glen Ellyn, IL
Cybersecurity and Defense AAS Degree

Loyola University Chicago



Chicago, IL

BS in Cybersecurity

University of Illinois at Springfield



Springfield, IL
Information Systems Security Bachelors Degree

Purdue University Global



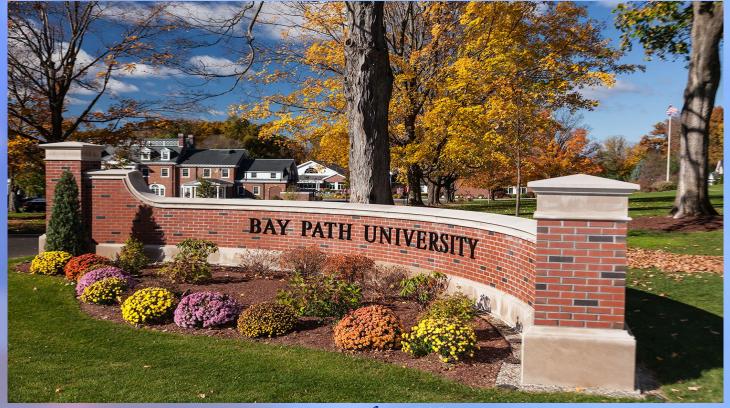
West Lafayette, IN
B.S. in Cybersecurity

Fort Hays State University



Hays, KS Master of Professional Studies - Cybersecurity

Bay Path University



Longmeadow, MA

B.S. Cybersecurity: Digital Forensics & Incident Response

Davenport University



Grand Rapids, MI
Bachelor of Science Cyber Defense

Ferris State University



Big Rapids, MI
Bachelor of Science in Information Security & Intelligence

University of Detroit, Mercy



Detroit, MI

Master of Science in Information Assurance/Cybersecurity

Walsh College



Troy, MI

Bachelor of Science in Information Technology Business Information Systems Concentration

Metro State University



St. Paul, MN

Bachelor of Science in Cybersecurity

University of Central Missouri



Warrensburg, MO Cybersecurity, B.S.

University of Nebraska, Omaha



Omaha, NE

Bachelor of Science in Cybersecurity

Pitt Community College



Winterville, NC Associate in Applied Science in Information Technology: Cyber Security

Minot State University



Minot, ND

B.S. Management Information Systems

Lakeland Community College



Kirtland, OH
Associate of Applied Business, Operating Systems/Networking Concentration

Oklahoma Christian University



Edmond, OK

Bachelor of Science in Computer Science with Cybersecurity

Chemeketa Community College



Salem, OR
A.A.S. in Computer and Information Technology

Northampton Community College



Bethlehem, PA

AAS in Information Security

West Chester University of Pennsylvania



West Chester, PA
Certificate in Computer Science

The Citadel



Charleston, SC

B.S. in Computer Science with a minor in Cybersecurity

Tennessee Tech University



Cookeville, TN

Computer Science, Information Assurance and Cyber-Security Concentration, B.S.

University of Memphis



Memphis, TN

Bachelor of Science, Cybersecurity Concentration

Sam Houston State University



Huntsville, TX
Bachelor of Science, Major in Computing Science (Information Assurance, IA)

University of Dallas



Irving, TX

Master of Science Cybersecurity

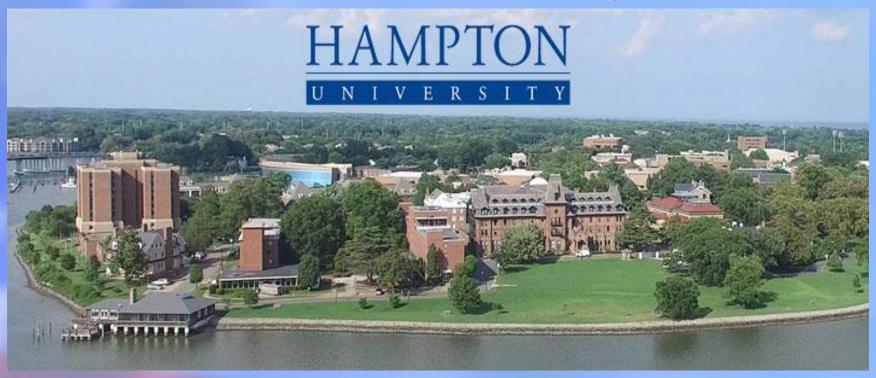
Western Governors University



Salt Lake City, UT

Bachelor of Science in Cybersecurity and Information Assurance

Hampton University



Hampton, VA

Bachelor of Science in Cyber Security - Computer Science Track

Laurel Ridge Community College



Middletown, VA
Associate of Applied Science in Cybersecurity

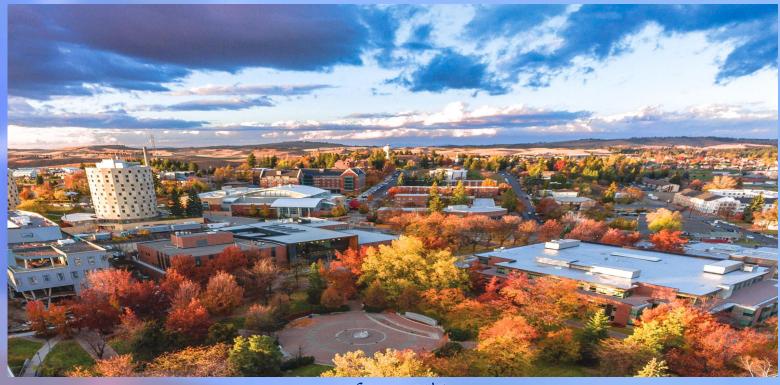
Norfolk State University



Norfolk, VA

B.S. in Computer Science – Track CYBT

Eastern Washington University



Cheney, WA

Bachelor of Science in Computer with Cyber Security Minor

Whatcom Community College



Bellingham, WA
Associate in Science, Computer Information Systems

Chippewa Valley Technical College



Eau Claire, WI Information Technology-Network Specialist Associate Degree

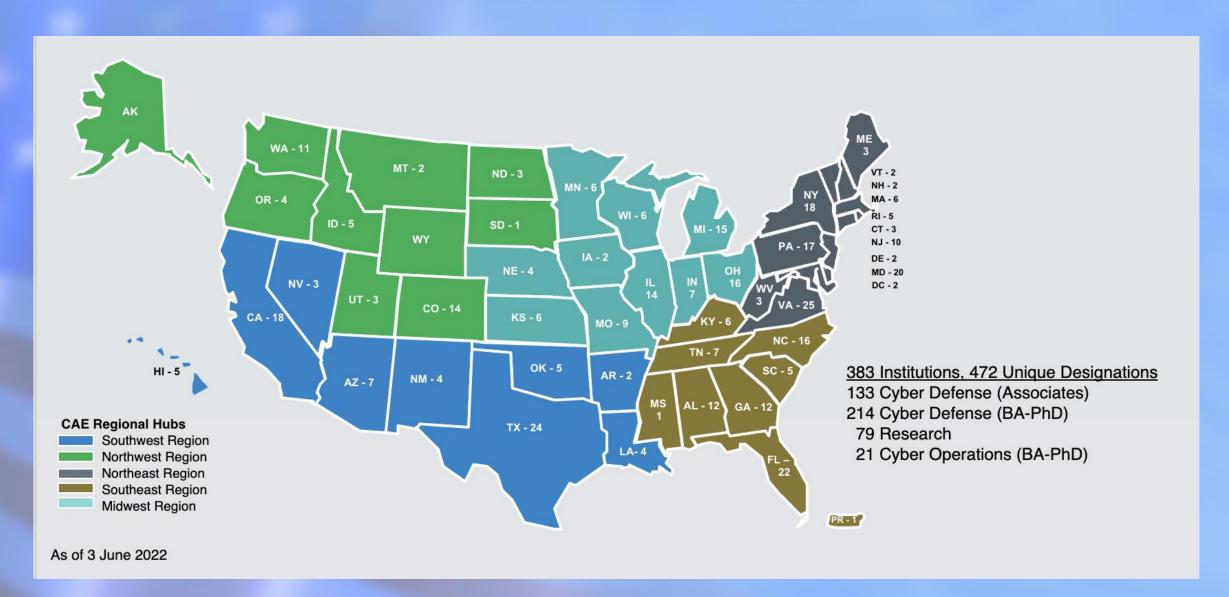
Waukesha County Technical College



Pewaukee, WI

Associate of Applied Science-IT Cybersecurity Specialist

NCAE-C Regions and Designations



National Centers of Academic Excellence in Cybersecurity







CONGRATULATIONS!

2022 Designation Ceremony





10:00 a.m. – 10:15 a.m.







BREAKOUT SESSIONS

10:15 a.m. - 11:00 a.m.

The Impact and Role of Academia in Government's Cybersecurity Strategies

6th floor, Chastain 1 & 2

Accelerating to Victory! Leveling the Playfield in Information Security through an Accelerated Training Program

6th floor, Chastain D & E

Signature Pedagogy in Cybersecurity: An Emerging Perspective

6th floor, Chastain F & G

Apprenticeship Model to Develop Cyber Talent 6th floor, Chastain H,I,&J







EXHIBIT HALL BREAK

Augusta Ballroom, 7th Floor 11:00 a.m. – 11:30 a.m.

NIST & CompTIA TECH SHOWCASE:
What Does CyberSeek Data Tell Us About the Challenge and Opportunity Ahead?







BREAKOUT SESSIONS

11:30 a.m. - 12:15 p.m.

Youth-to-Retirement Approach to Build a Cybersecurity Workforce

6th floor, Chastain 1 & 2

A Diverse Cyber Academy for Diverse People 6th floor, Chastain D & E

From Classroom to the Cyber Ops Center: Collegiate Workforce Development through Hands-on Application 6th floor, Chastain F & G

Attracting Tomorrow's Cybersecurity Talent Today 6th floor, Chastain H,I,&J









Peachtree Ballroom

12:15 p.m. – 12:45 p.m.









ADDRESSING
CYBERSECURITY
WORKFORCE
NEEDS OF SMALL
AND MEDIUM
SIZED BUSINESSES

Debbie McLeod

President & Director of Apprentice Program

McLeod Information Systems

Zachary Hodges

Vice President & COO

Cyber Security Solutions, Inc.

Mark Lupo
Business Education/Resilience Specialist
University of Georgia SBDC

Moderator: Roy Hadley Jr.
Special Counsel and HBCU Team Leader
Adams and Reese LLP







BREAK

1:30 p.m. – 1:45 p.m.

2:30 p.m. – 2:45 p.m.







NETWORKING BREAKS

1:45 p.m. - 2:30 p.m.

Promote Career Discovery

6th floor, Chastain D & E

Modernize Talent
6th floor, Chastain F & G

Transform Learning Process 6th floor, Chastain H,I,&J







BREAKOUT SESSIONS

2:45 p.m. - 3:30 p.m.

Designing a Sustainable Workforce Development Model through Customizable Upskilling and Reskilling Pathways

6th floor, Chastain 1 & 2

The Role of Cybersecurity Leaders as Educators: Unconventional Approaches to Cybersecurity Talent Development and the Scarcity of Skill 6th floor, Chastain D & E

Cyber4Work: Growing the Cyber Workforce in Mississippi 6th floor, Chastain F & G

Integrating Emergency Management Principles into Cybersecurity Education 6th floor, Chastain H,I,&J







EXHIBIT HALL BREAK

Augusta Ballroom, 7th Floor 3:30 p.m. – 4:00 p.m.









Closing
Remarks:
Accelerating the
Future of
Computing and
Cybersecurity

Sethuraman Panchanathan

15th Director

U.S. National Science Foundation (NSF)







ACCELERATING THE FUTURE OF COMPUTING AND CYBERSECURITY

Sethuraman Panchanathan National Science Foundation NICE Conference June 8, 2022

Mission



To promote the to advarage the and welfare Secure the national health, prosperity and welfare Secure the national defense I defense.







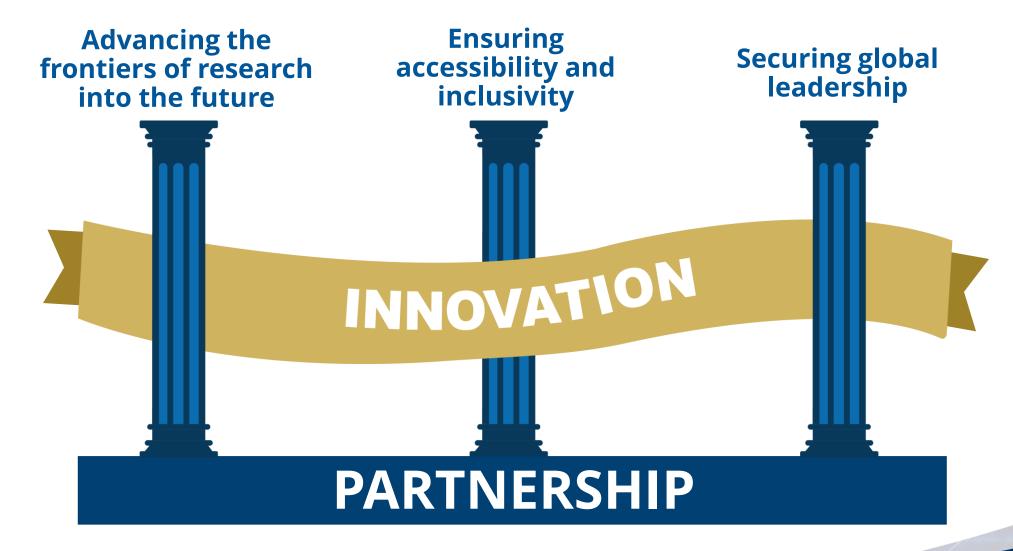
Defining Moment



Bipartisan Support



Vision

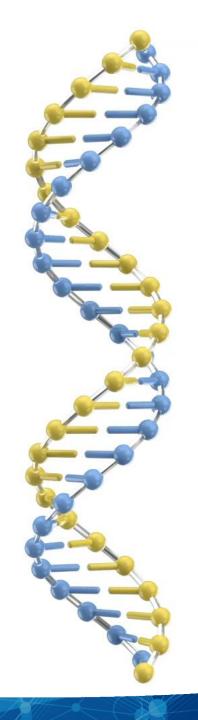




DNA of NSF



CURIOSITY-DRIVEN, DISCOVERY-BASED EXPLORATIONS





USE-INSPIRED,
SOLUTIONS-FOCUSED
INNOVATIONS



Computing for Everyone

LANGUAGE



2000s

LOGO **LANGUAGE FOR**





BROADENING PARTICIPATION IN STEM

2015



CSFORALL AND AP COMPUTER SCIENCE PRINCIPLES

2010s



SCRATCHJR AND SNAP

1998 AND 1988



LEGO/LOGO ROBOTICS KITS

Investment to Impact: Artificial Intelligence (AI)

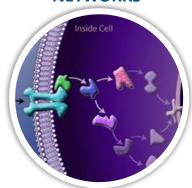
1970s: MACHINE LEARNING



1970s: NATURAL LANGUAGE PROCESSING



1980s: BAYESIAN NETWORKS



1980s: INTELLIGENT TUTORING SYSTEMS



1990s: MEASURING FACIAL EXPRESSIONS IN SBE



CURRENT IMPACTS

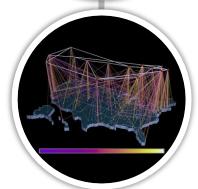
NSF INVESTMENTS



DEEPSCALE: VISION SYSTEMS FOR SELF-DRIVING CARS



SPEECH RECOGNITION SOFTWARE



TRAFFIC PREDICTION AND ROUTING



AI INSTITUTE FOR STUDENT-AI TEAMING



EMOTIENT STARTUP



Framework for Advancing Computing and Cybersecurity



Through increased investments in the cybersecurity knowledge base and academic workforce.



INSPIRING THE MISSING MILLIONS

Using interventions and capacity building that enhance and broaden participation.



Founded in **cross-cutting** partnerships and programs.



STRENGTHENING DISCOVERY AND INNOVATION



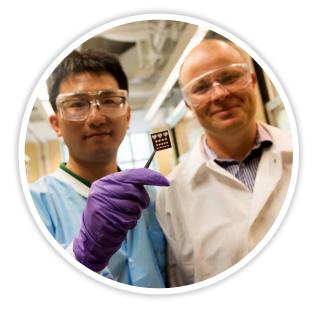
SaTC



Al Institutes



CIFellows



Quantum Computing and Information Science Faculty Fellows







INSPIRING THE MISSING MILLIONS







CSForAll



SaTC-EDU



NCyTE



DESIGNING FOR THE FUTURE Technology, Innovation and **Partnerships**

Accelerating Translation



DESIGNING FOR THE FUTURE

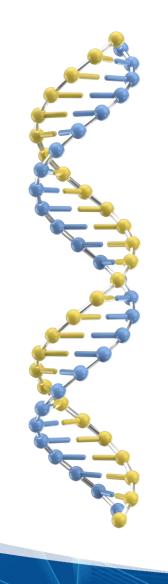
Building Innovation

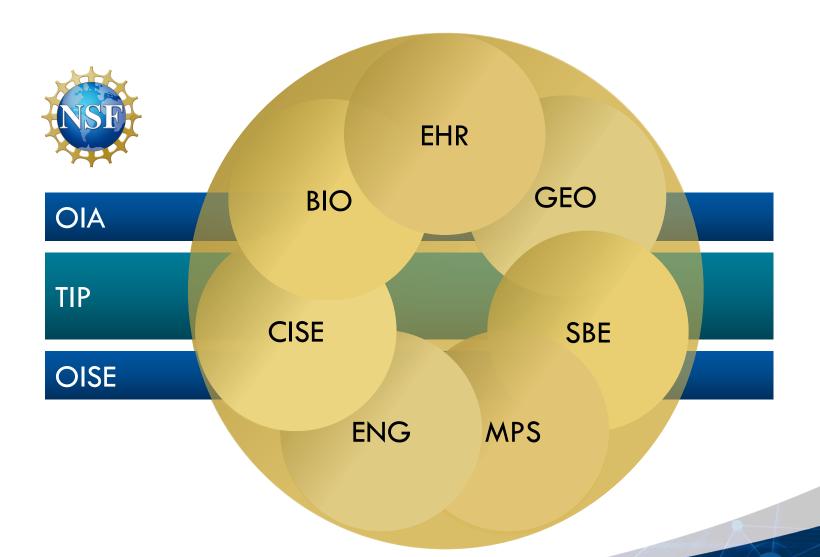
Ecosystems





DESIGNING FOR THE FUTURE









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SAVE ### DATE

The Westin Seattle
June 5 - 7, 2023





