

NICECon

**Critical Infrastructure Security Consortium,
in partnership with Stony Brook
University's Advanced Energy Research
and Technology Center**

**Title: Rebooting the Cyber, AI and Data Pipeline for
the Grid**



Meet our Team:



Chris Timberg
*Critical Infrastructure Security
Consortium*



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Stony Brook University



Audrey Sadowicz
*Critical Infrastructure Security
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AGENDA

- **CyberLearn Approach**
- **Innovative Workforce Development Strategies**
- **Success Stories**
- **Q&A and Brainstorming**

CyberLearn translates industry- defined needs into workforce ready learning



KEY ISSUES IN WORKFORCE DEVELOPMENT



Retention Challenges



Rapidly Evolving Landscape



Regulatory Compliance

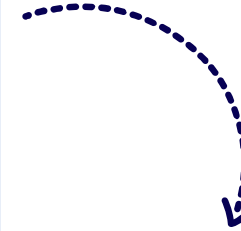


Skill Set Diversity

Built with industry.

Delivered with universities.

Focused on careers.



CYBERLEARN PROGRAM COMPONENTS

1

Learning Modules

2

Guest Speakers & Industry Partners

3

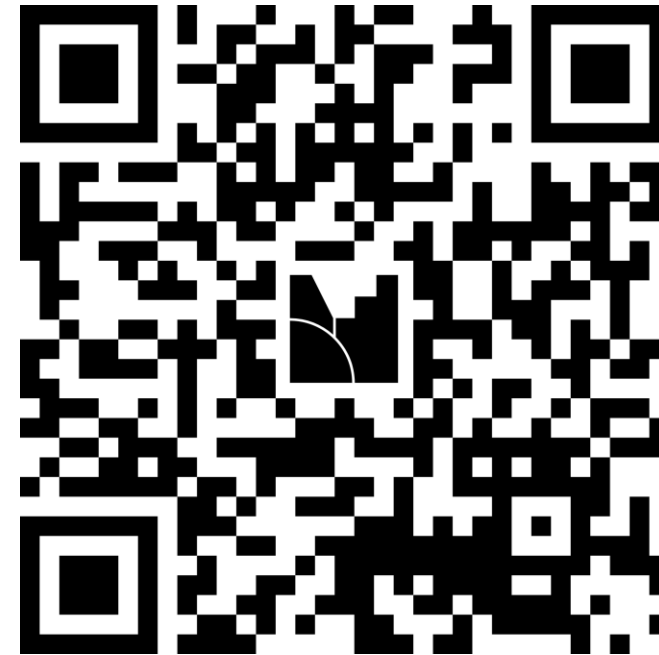
Professional Development

4

Digital Badge

What are the biggest workforce related challenges your company or industry struggle with?

Use the Menti link to share your experience:



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CyberLearn is a collaborative effort across several entities and requires the support of industry partners to make it successful

Program Delivery



University Staff

Academia and Labs



Industry Partners



CyberLearn broadens the critical infrastructure talent pipeline by recruiting students from diverse academic backgrounds

CYBERLEARN RECRUITING PROCESS

1

Invite Broadly

2

Translate Interests

3

Expose Pathways

4

Connect to Roles

EXAMPLE OF DIVERSE RECRUITING PATHWAYS

Political Science

Policy, Governance, Public-Sector Mission

Computer Science

Software, Security Engineering, AI

Applied Math

Analytics, Modeling, Optimization

CyberLearn is not a one-off course – it is a workforce architecture that connects curriculum, employer access and industry needs



Industry Partners Actively Shape Delivery

Industry partners help align CyberLearn's learning priorities with real-world sector needs and expose students to career challenges.



Credentials Signal Workforce Readiness

Digital badges give students a recognizable credential while helping employers identify candidates with targeted cybersecurity and energy training.



Professional Development Is Built In, Not Optional

Career coaching, resume support, mock interviews, and LinkedIn updates are embedded to help students compete for internships and early-career roles.

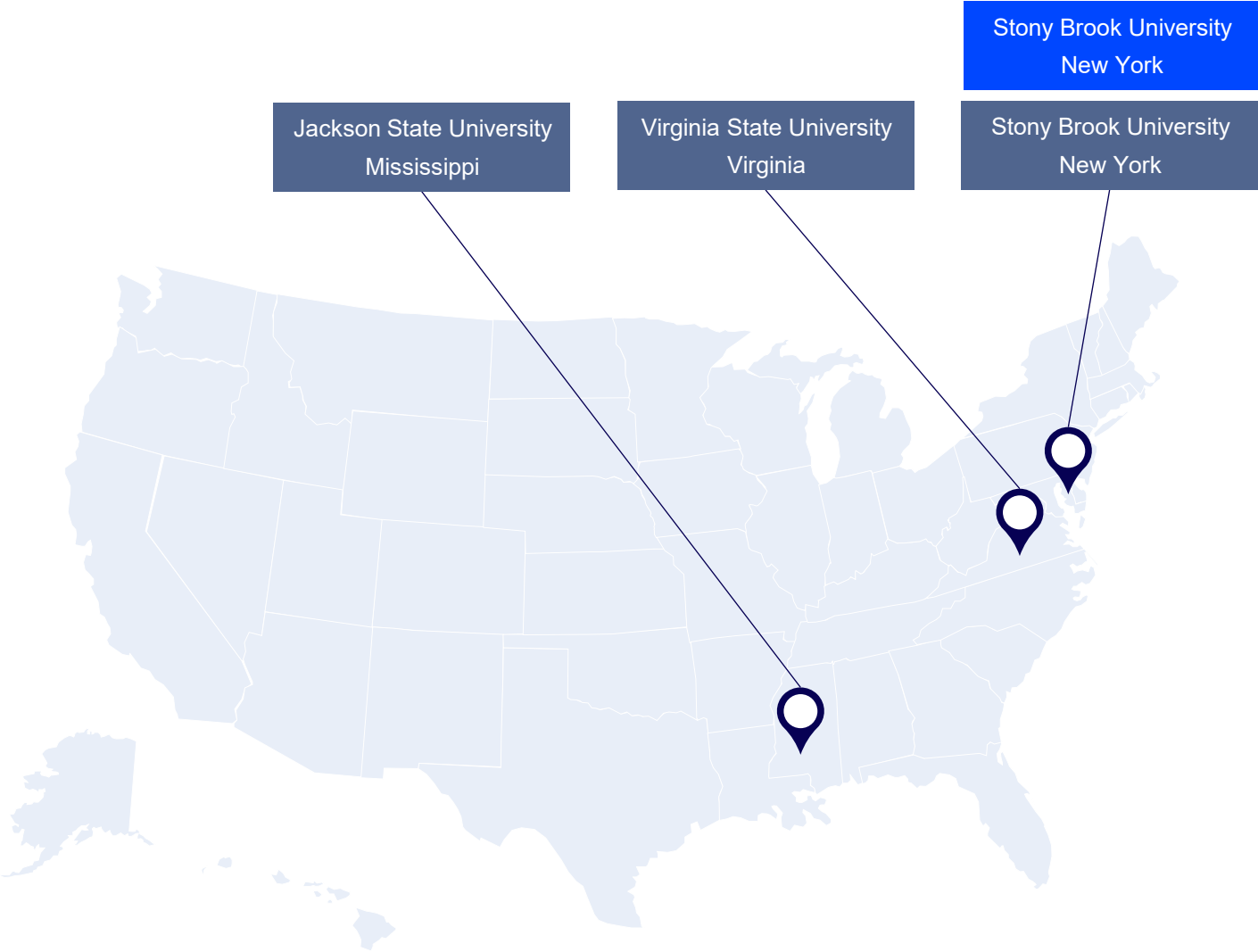


The Model Expands Across Pathways

The program's flexible design can scale into other workforce pathways across energy, cybersecurity, and critical infrastructure sectors.

PROGRAM EXPANSION

CyberLearn is Expanding the Critical Infrastructure Talent Pipeline from Pilot to Scalable Workforce Model



PROGRAM EXPANSION

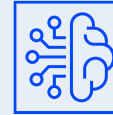
*“The most valuable part of the program was learning about the **intersection of cybersecurity and utilities**, hearing about the experiences of guest speakers, and getting access to connecting with them after the meetings. I gained an **interest in the energy and utilities** industry, and I am considering a career in this industry, but one that is still cybersecurity/tech-related.”*

*“Great opportunity to **network within the cybersecurity and critical infrastructure fields.**”*

*“One thing I honestly never thought about before starting the program is how **important cybersecurity is in protecting critical infrastructure.** It’s now a sector I’m seriously interested in exploring further.”*



KEY OUTCOMES



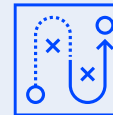
High Student Engagement

Over 40 students completed Energy CyberLearn this past semester



Professional Readiness

Resume review, elevator pitches, LinkedIn profiles, digital badges, and mock interviews



Job Placement

Internships and full-time roles across private sector, public sector, and utilities

CyberLearn is a scalable model for industry-aligned workforce development, with a framework that can be adapted to address emerging needs in critical sectors



**Thank you for
Joining!**

Let's Talk.

