Cyber Learning Network

"CyberLearn"

EXHIBIT B1

UA LITTLE ROCK

Consortium for Cyber Innovation

Driving economic development opportunities by robusting talent pathways and creating opportunities to spur creative innovations

P-20 Education & Workforce Professional Development

Regional Cyber Industry Cluster

Research & Innovation
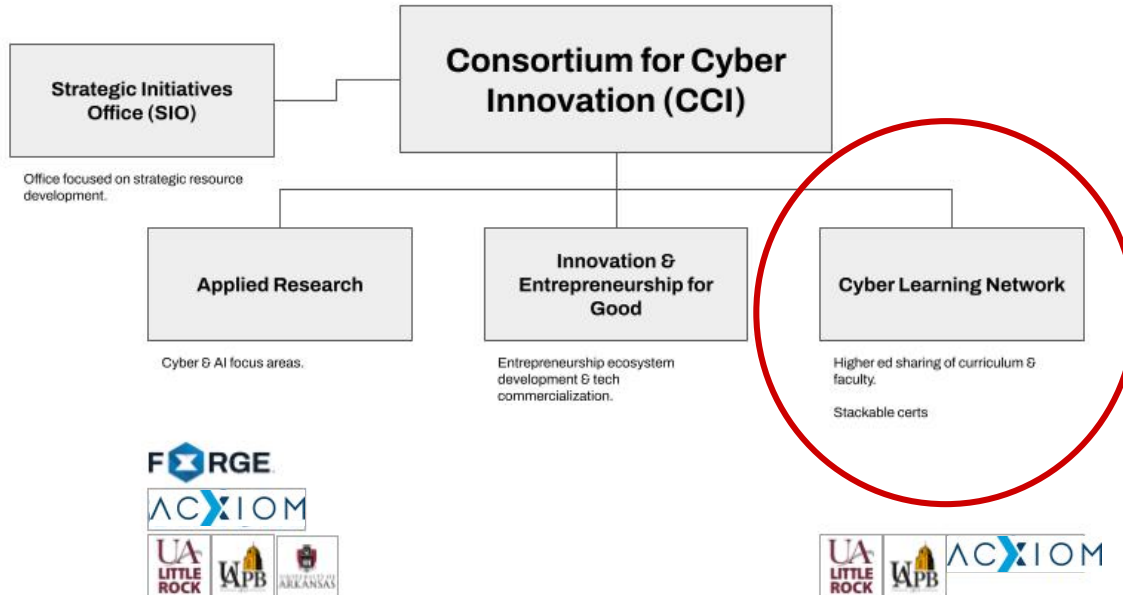
CYBERSECURITY

DATA SCIENCE

NATIONAL DEFENSE

Arkansas Cybersecurity Workforce Demand

- **>3000 unfilled cybersecurity positions**

- **Starting Little Rock salary: $65,017**

- **Average statewide salary: $91,119**

- **Opportunities for remote work with broadband initiatives = *boost rural communities***
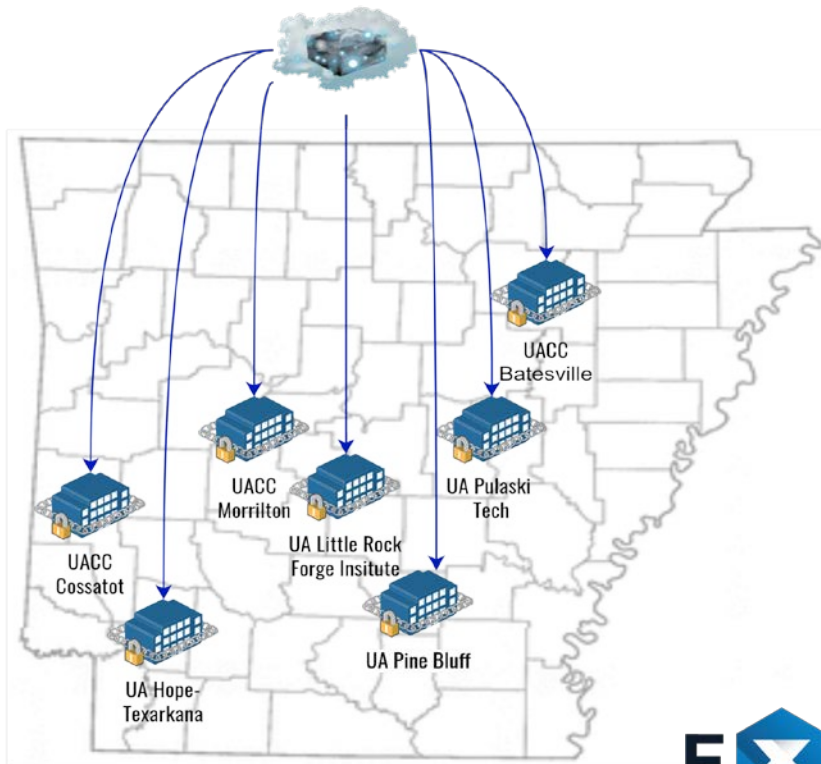
Cyber Innovation → CyberLearN

Organization

Strategic Initiatives Office (SIO)

Office focused on strategic resource development.

Consortium for Cyber Innovation (CCI)

Applied Research

Cyber & AI focus areas.

Innovation & Entrepreneurship for Good

Entrepreneurship ecosystem development & tech commercialization.

Cyber Learning Network

Higher ed sharing of curriculum & faculty.

Stackable certs

CyberLearN

Cyber Learning Network

UA System/Forge consortium of shared instructional resources and work-based learning (**Forge, ACDS, industry partners**) to expand cyber education throughout Arkansas

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CyberLearN: A Distinctive Model

- **First consortium of its kind in Arkansas**

- **Shared instructional resources = cost-efficient expansion of industry-designed, NIST/ABET-aligned curriculum**

- **P20 (preK - graduate education) pathways**

- **Learner-to-Employment Ecosystem (WBL, prior learning credit, employment matching)**

- **Stackable certificates = manageable motivators**

- **Multiple, flexible pathways for working learners**

- **Scalable throughout state, including HS concurrent education**
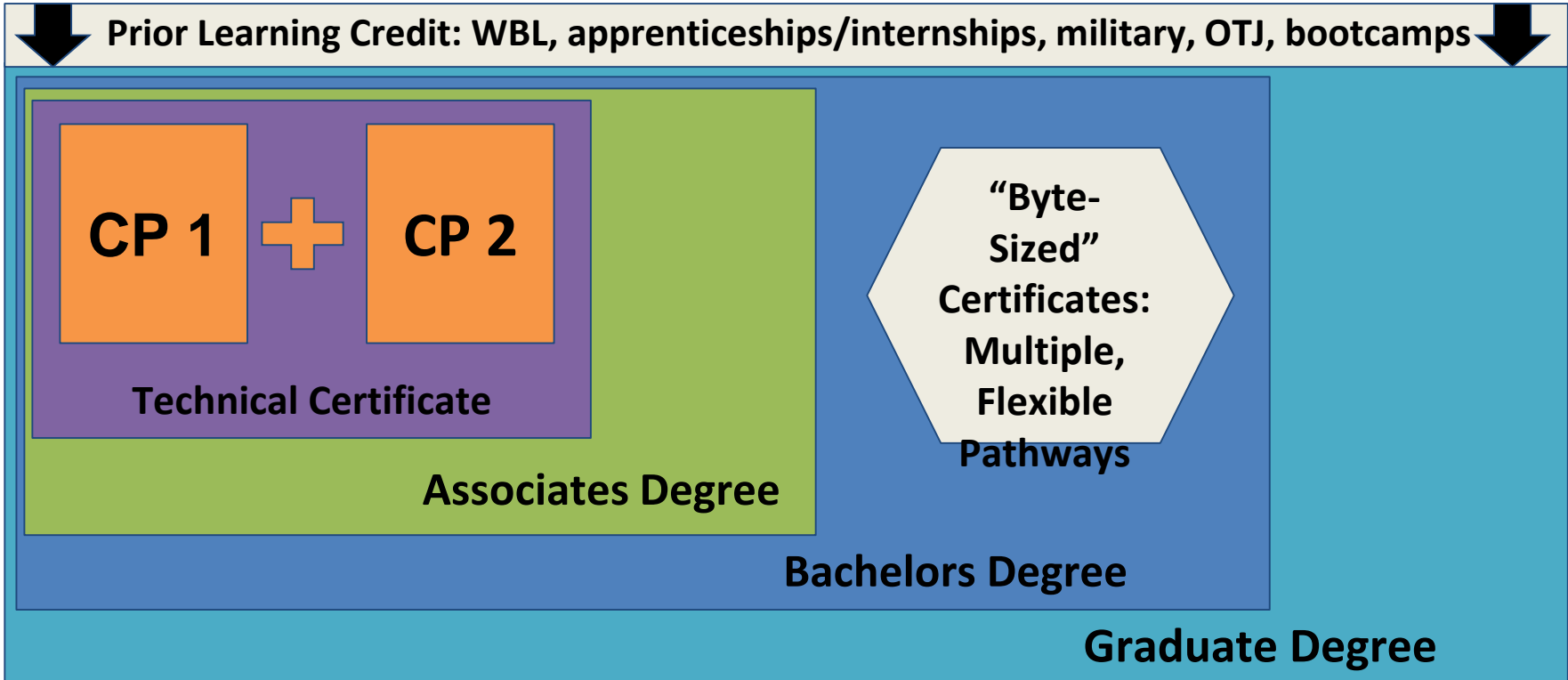
- **Replicable in other disciplines**

and Operations Centers (STOCS)

- 9 STOCs

- Cloud-based CyberArena = cost-effective

- Team-based project learning w/ real-world scenarios

- Zoom-linked learning spaces

![UA LITTLE ROCK logo]

Microsoft's Cyber Operation Center

Stackable Certificates and Degrees

Prior Learning Credit: WBL, apprenticeships/internships, military, OTJ, bootcamps

CP 1 + **CP 2**

Technical Certificate

Associates Degree

"Byte-Sized" Certificates: Multiple, Flexible Pathways

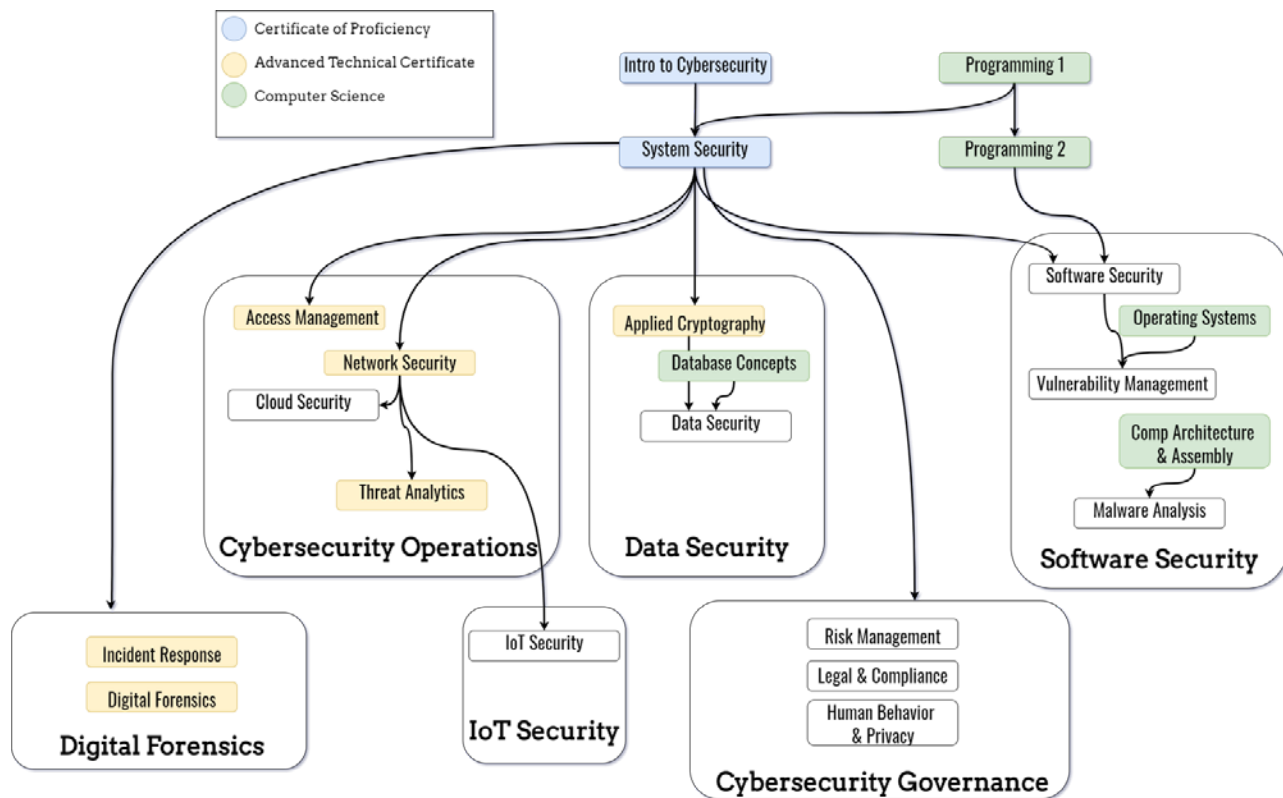**Bachelors Degree**

Graduate Degree

CP 1

Certificate of Proficiency in Cybersecurity Fundamentals

- **12 credit hours**
  - Technology Ethics
  - Computer Programming I
  - Intro to Cybersecurity
  - Intro to System Security
- **Courses available Fall 2022**
- **First graduates Spring 2023**
- **Designed for learners of all backgrounds**
- **Stacks with CP 2 (9 credit hrs) into Technical Certificate**

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Industry-designed **"Byte-Sized Certificates"** will provide personalized pathways for just-in-time upskilling according to employer and learner needs

Growing Teachers & Instructors

- **National Cyber Teaching Academy (30 HS teachers)**
- **Arkansas Cyber Teaching Academy (60 HS teachers + 8 college instructors)**
- **Summer '22 + '23**
- **Qualifies instructors to teach HS concurrent and lower-level college courses**
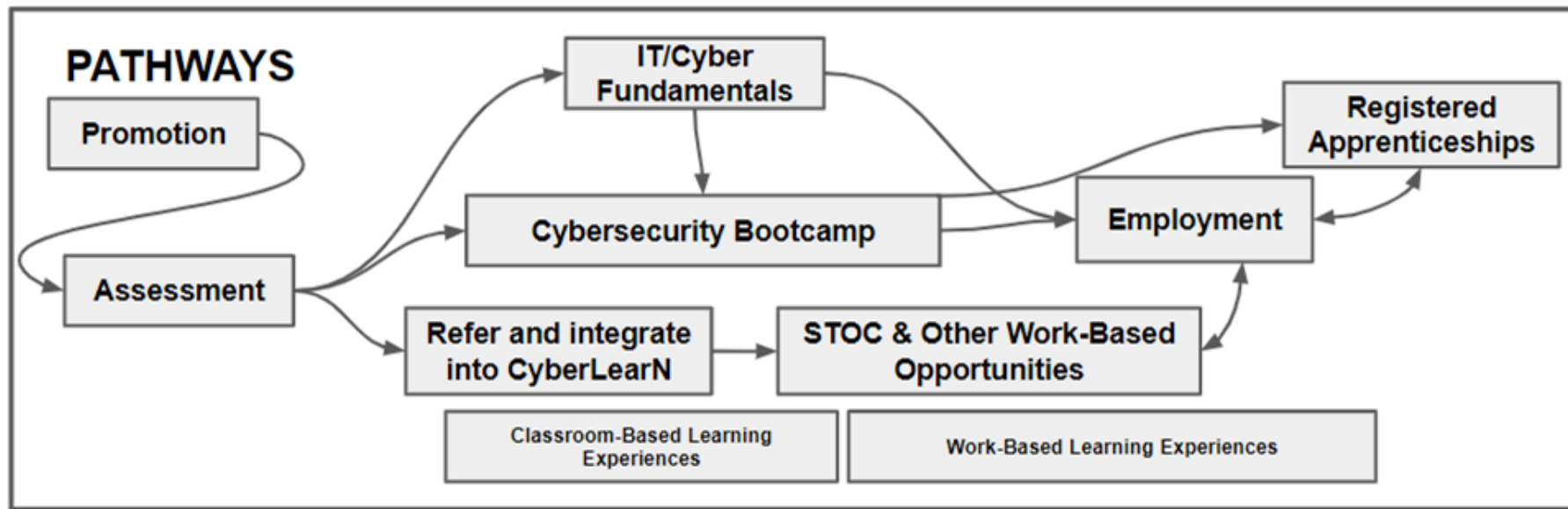
NSA National Cyber Teaching Academy

Certificate granting institutions:

DePaul University · UA Little Rock · University of Louisville

Partner institutions:

DARK · Purdue University · Waukesha County Technical College · Tennessee Tech

Bluegrass Community & Technical College · Sacramento State · Estrella Mountain Community College

Numerous Pathways for Working Learners = Expands Ecosystem

Roadmap for Employment & LIFETIME LEARNING

Summary

- **Start-up funding via Arkansas Office of Skills Development (OSD) at $1.96M over 2 years; sustainable business model at Year 3**

- **First to "operationalize" collaboration across 2-year, 4-year and private sector (industry) to integrate work-based learning throughout curriculum**

- **Economic development and resilience in rural Arkansas communities**

- **Innovative curriculum: work-based learning, aligned with national standards, industry-designed, stackable ("byte-sized") certificates**

- **Establishes foundation for evolution of learning paradigm**

Possible Logos….