State Governments Pursuing New Tactics in the War for a Skilled Cybersecurity Workforce

July 18, 2018
The Chairman’s Initiative of South Dakota Governor Dennis Daugaard will leverage the region’s best thinking to bridge the gap between prospective workers and employers in the West. The goal will be to create enhanced career opportunities for students, graduates and displaced workers to help build a more vibrant regional economy.
YEAR-ONE REPORT FINDINGS

- Integrate State Efforts
- Value All Pathways
- Connect Education to Careers
- Create Pathways to In-Demand Careers
- Upgrade Skills
- Address Rural Challenges

Integrate State Efforts

• Establish statewide goals

• Align state resources and break down silos

• Encourage industry leadership
Connect Education to Careers

- Increase career awareness
- Provide opportunities for career exploration
- Facilitate industry-education collaboration
Create Pathways to In-Demand Careers & Upgrade Skills

• Provide work-based learning opportunities, such as internships and apprenticeships

• Design career pathways that help guide students through training and education into the workforce

• Make it easy for adults to upgrade their skills through earn-and-learn programs
Indiana Executive Council on Cybersecurity
The Problem
The Strategic Solution
MISSION

In order to protect the security and economy of the State, it is appropriate and necessary for state government to establish and lead a statewide, collaborative effort involving government, private-sector, military, research, and academic stakeholders to enhance Indiana’s cybersecurity.
DIRECTIVES (PER EXECUTIVE ORDER)

• Establish an effective governing structure and strategic direction

• Formalize strategic cybersecurity partnerships across the public and private sectors

• Strengthen best practices to protect information technology infrastructure

• Build and maintain robust statewide cyber incident response capabilities
DIRECTIVES (PER EXECUTIVE ORDER)

- Establish processes, technology, and facilities to improve cybersecurity statewide
- Leverage business and economic opportunities related to information, critical infrastructure, and network security
- Ensure a robust workforce and talent pipeline in fields involving cybersecurity
IN LESS THAN A YEAR…

• Completed Four Phases
  • Research
  • Planning
  • Implementation
  • Evaluation

• Developed Almost 67 Deliverables and 117 KPIs
Workforce Development
RESEARCH CONDUCTED

- Existing data on cybersecurity programs/courses/degrees/certifications and the capability of that data
- Sources for current and future demand for cybersecurity workers in Indiana
- List of all cybersecurity-related jobs and the skills required to fill those jobs – NICE
- Discussion on how easy / difficult it is to fill cybersecurity jobs, currently
- List of programs designed to generate interest in cybersecurity and a career in cybersecurity
- What has happened in the recent past in this area in Indiana
COMMITTEE DELIVERABLES

- Generate Interest Plan
- Job Demand Tool
- K-12 Offering Cybersecurity Content
- NICE Framework Standard
- Program Data Tool
NATIONAL GOVERNORS ASSOCIATION

• NICE Framework Standard
  • Full ecosystem of the workforce
  • K-12 – Generate Interest
  • College and Training Programs for all types of job seekers
  • Employers and Business Support
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Q & A
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<th>Education partner</th>
<th>Industry</th>
<th>Details</th>
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<td>LSU</td>
<td>Digital media</td>
<td>Building the Louisiana Digital Media Center on LSU’s campus</td>
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<td>IBM</td>
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<td>Software and information</td>
<td>Tripling the number of computer science graduates</td>
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<td>CenturyLink</td>
<td>Lousiana Tech</td>
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<td>CSC</td>
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<td>GE Capital</td>
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<td>CGI</td>
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<td>Extra-curricular program funding</td>
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ACADEMIC SUMMITS
Mission

Establish a Cybersecurity Commission to advance the State’s cyber ecosystem and positions Louisiana as a national leader and preferred location for cyber business, education, and research.
LOUISIANA CYBERSECURITY COMMISSION

Cybersecurity Commission Goals

1. Identify, Prioritize, and Mitigate Louisiana’s Cyber Risk
2. Promote Cybersecurity Awareness and Recommend Best Practices for the Security of all of Louisiana’s Cyber Ecosystem
3. Promote Actions, Including Legislative, Administrative, and Regulatory, Where Appropriate, to Enhance Cybersecurity in Louisiana
4. Grow Louisiana’s Cybersecurity Workforce and Educate the Public/Private Sectors about Cybersecurity
5. Enhance Louisiana Cyber Emergency Preparedness and Response Capabilities
6. Monitor, Understand, and Share Cyber Threat Information
7. Build a Comprehensive Digital Forensics and Cyber Investigative Capability
8. Identify, Prioritize, Acquire, and Establish Funding Mechanisms to Enhance Louisiana’s Cybersecurity Efforts
9. Facilitate Economic Development by Promoting a Cyber-safe Louisiana for Businesses and Consumers
Q & A
Thank You for Joining Us!

**Upcoming Webinar:** “Afterschool Programs Present Opportunities to Grow the Cybersecurity Workforce”

**When:** Wednesday, September 12, 2018 at 2:00pm ET


[nist.gov/nice/webinars](http://nist.gov/nice/webinars)