

Leveraging AI and ML to develop new CPSS Workforce Development Solutions

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Research Problem

Research how to effectively match candidates to cyber jobs and associated education/training using AI, Analytics and novel data collections.

The goal is to achieve equitable access to opportunity in these fields, while positively impacting transitioning veterans and socio-economically disadvantaged demographic groups while positioning the region at the forefront of cybersecurity workforce development expertise.

Research potential impact to underserved communities and associated economy and security.

Identification of next-generation Cyber career path. Detail the skills required. Identify training required to support next-generation Cyber

Research paper outlining industry, existing vendors, what training/services they provide, and how they provide those services (e.g. online versus in-person versus blended, length of training, etc)

Focus on local and state level with clear determination of the specific gap (e.g. what career is most needed) at those levels

Higher Ed benchmarking cyber security programs VA, MD, NC, Look at existing programs and compare to needs that have been determined. Detailed gap analysis of programs against research needs.



Milestones

- Questionnaire distributed to the Virginia Beach Workforce Development Agency; in data collection phase.
- Initial research completed August 30, 2020;
- Identification of themes, key concepts, and supporting data by September 15, 2020;
- Cybersecurity aptitudes identified and assessment is being developed;
- Development of Innovative Science Platform (iDSPLA) initiative;
- Launch of iDSPLA is scheduled for September.