SEI Bulletin

10 Things Organizations Should Know About AI Workforce Development

April 30, 2025—Recent White House policies have called on government agencies to prioritize technical artificial intelligence (AI) talent in the federal workforce. The Department of Defense (DoD) Chief Digital and Artificial Intelligence Office (CDAO) has also identified workforce talent and training as critical for AI readiness. Through its engagements with DoD mission partners, the SEI's AI Division has created 10 recommendations for AI workforce development.

The new SEI Blog post 10 Things Organizations Should Know About AI Workforce Development recommends using AI to create educational content and assess students, developing AI governance policies, and mapping the DoD workforce to AI-specific roles, among other steps.

Some recommendations are aimed at the roles most directly involved with AI identified by the Defense Cyber Workforce Framework (DCWF). Other recommendations are for organizational leadership or even the end users.

"The SEI's AI Workforce Development team combines both a workforce development academic research background and DoD and federal agency AI expertise to help organizations tackle any workforce talent challenges that they may be encountering," write the post's authors, who also recently released the e-learning course Introduction to Artificial Intelligence (AI) Engineering.

Read the blog post »

📰 SEI News

New Paper Recommends Secure by Design Standard
SEI CERT Division director Greg Touhill coauthored an AFCEA International study on how to make more secure software systems.

New Research Supports SEI AISIRT Mission to Secure Artificial Intelligence
Academia, industry, and the SEI collaborated to illuminate the need for coordinated disclosure of AI vulnerabilities and propose solutions.

See more news »

🖱 Latest Blogs

10 Things Organizations Should Know About AI Workforce Development
This post outlines 10 recommendations developed in response to work with our mission partners in the Department of Defense.

DataOps: Towards More Reliable Machine Learning Systems
This post explains DataOps, an area that focuses on the management and optimization of data throughout its lifecycle.

See more blogs »

Latest Podcasts

Updating Risk Assessment in the CERT Secure Coding Standard

Joe Sible, David Svoboda, and Robert Schiela explore proposed risk assessment updates to the CERT Secure Coding Standard.

Delivering Next Generation Cyber Capabilities to the Warfighter

Greg Touhill, director of the SEI CERT Division, discusses ways CERT researchers and technologists are working to deliver rapid capability to warfighters in the Department of Defense.

See more podcasts »

Latest Videos

Identifying and Mitigating Cyber Risk

Matt Butkovic, Greg Crabbe, and Beth-Anne Bygum explore how best to align business and resilience objectives.

Malware Research: If You Cannot Replicate it, You Will Not Use It

Leigh Metcalf and Edward Schwartz recommend ways to overcome the problem of replicating and reproducing academic malware research results, so that new and needed concepts and tools can be more quickly used.

See more videos »

Latest Publications

Kubernetes (k8s) in the Air Gap

This paper explains how the act of mirroring the required container images for a k8s deployment in the air gap has become increasingly simplified in the past few years.

[Center for Calibrated Trust Measurement and Evaluation (CaTE)— Guidebook for the Development and TEVV of LAWS to Promote Trustworthiness](#)

This guidebook supports personnel in the development and testing of autonomous weapon systems that employ ML, focusing on system reliability and operator trust.

[Reference Architecture for Assuring Ethical Conduct in LAWS](#)

This reference architecture provides guidance to reason about designing and developing ML-enabled autonomous systems that have the capability to use lethal force.

[Key Takeaways from Zero Trust Industry Day 2024](#)

This paper describes key takeaways from Zero Trust Industry Day 2024, which gathered vendors and partners to propose solutions for implementing zero trust practices in an information technology (IT) and operational technology (OT) systems environment.

[See more publications »](#)

📅 **Upcoming Events**

Webcast - [A New Performance Zone for Software for National Security](#), May 7
Hasan Yasar, Will Hayes, and Joe Yankel assert that software engineering practices are an ingredient that should not be left behind as national security and defense organizations adopt leap-ahead technologies.

[Insider Risk Management Symposium 2025](#), June 12
The theme of this year's event is "Technology-Driven Changes to the Insider Risk Landscape."

[International Workshop on Envisioning the AI-Augmented Software Development Life Cycle](#), June 26
This workshop seeks to explore how AI might transform end-to-end software systems development workflows and emphasizes the need to collect relevant data now to assess the long-term effects of AI throughout the software development life cycle.

[Secure Software by Design 2025](#), August 19-20
Join thought leaders in secure software by design for presentations and discussions on all aspects of secure software systems development.

[See more events »](#)

⬥ Upcoming Appearances

[Ash Carter Exchange on Innovation and National Security and A+ Expo 2025](#), June 2-4
Visit the SEI and Carnegie Mellon University at booth 627.

[AFCEA TechNet Augusta 2025](#), August 18-21
Visit the SEI at booth T825.

[See more opportunities to engage with us »](#)

⬥ Upcoming Training

[Software Architecture Design and Analysis](#)
June 10-13 (Live Online)

[Cybersecurity Oversight for the Business Executive](#)
July 29-30 (Live Online)

E-learning - [CERT Artificial Intelligence (AI) for Cybersecurity Professional Certificate](#)

E-learning - [Introduction to Artificial Intelligence (AI) Engineering](#)

[See more courses »](#)

⬥ Employment Opportunities

[Software Development Tech Lead](#)

[Sr. Embedded Software Engineer](#)

[All current opportunities »](#)