






# COGNITIVE CYBER

## Cognitive Cyber for Physical and Digital Platforms

Rampant cyberattacks have become commonplace. With every passing second this digital menace grows at an alarming pace. Worldwide in 2020 some 86 % of organizations fell victim to a successful cyberattack, and nearly 70 % were compromised by ransomware. Worse still: In 2021 the same volume of attacks occurred by the third quarter.

Yet the upward spiral of cyberattacks does not stem solely from growing sophistication of attacks via AI, botnets or other malware vehicles. The root cause in many instances: poorly written software, misconfigured systems, shortcuts and ignored problems that leave infrastructure vulnerable.

### Five Technology Focus Areas

	Cognitive Cyber for Physical and Digital Platforms	Cognitive Cyber
	Mission & Enterprise Information Technology	M/EIT
	Analytics, Automation, and Artificial Intelligence	A <sup>3</sup>
	Intelligent Systems Engineering	ISE
	Data at the Edge	D@tE

ManTech is the industry leader in full-spectrum cyber, leveraging deep research into systems and device vulnerabilities to reveal and fix back doors and other entry points before attackers find and take advantage of them. We offer comprehensive and dynamic cyber solutions that leverage DevSecOps, automation and hyper-realistic testing to disrupt, mitigate and neutralize attacks. These solutions provide military grade defense for our government customers and their missions.

Cybersecurity is a rapidly evolving space. As attacks increase in scale and complexity, the Cognitive Cyber team can leverage our subject matter experts in other Technology Focus Areas (TFAs) to create cutting edge cybersecurity solutions and capabilities. As just one example, Analytics, Automation and Artificial Intelligence (A<sup>3</sup>) can help provide new insights and approaches to turn the flood of cybersecurity-relevant data into actionable, prioritized insights that support mission operators in the dynamic arena of cyber conflict and enable machine-speed responses. ManTech's Cognitive Cyber provides enhanced security and cyber resilience by designing, testing and analyzing platforms in collaboration with industry partners to provide multi-capable, flexible solutions to exploit advances in technology while maintaining cyber resilience.

### Key Capabilities:

- Zero Trust
- Cybersecurity Operations Automation
- Improved Cybersecurity Incident Response
- Automated Code Analysis
- Enhanced Detection of Threats
- Software Supply Chain Integrity Validation







Effective cybersecurity is not static, nor does it rely simply on tools and technology. Any organization's ability to execute its mission depends on the quality and training of its people and dedicated workforce development that evolves over time. With an eye toward the future, ManTech and the Cognitive Cyber team are working with various training-focused groups such as ManTech University (MTU) to ensure the cybersecurity training we provide our employees and customers is current and relevant. Content is curated under a unified Cognitive Cyber Capability Academy.

Through strategic partnerships with university and industry providers such as Purdue University Global, SANS, Skillsoft, and more, ManTech offers multiple programs to build skills and capabilities in Cognitive Cyber at all development levels and at no out-of-pocket cost to employees. This Cognitive Cyber Capability Academy lines up learning opportunities to business objectives. More than just a program, this is a corporate investment in our employees' future and aligns directly to our culture of career enablement.

We also are leading a newly integrated Cyber Community of Practice to bring together our offense and defense-focused teams to work together to share knowledge and build cross-discipline experience. Our methodology: Performing small research and development efforts to test innovative ideas that become the foundations of future ManTech solutions and capabilities.

### **Cognitive Cyber for Physical and Digital Platforms**

- Dynamic Cyber Defenses to Protect Vital Infrastructure and Data Assets
- Offensive Cyber Operations that Disrupt, Mitigate and Neutralize Attacks
- Automated Cyber Responses Leveraging AI, Machine Learning and Predictive Analytics

*We strengthen our cyber workforce through a focus on high-fidelity training.*



**LEARN MORE - ManTech Innovation and Capabilities Office**

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**ManTech**