



IG Labs

The Art of the Possible

IG Labs provides cutting-edge technologies to advance cyber capabilities and keep defenders ahead of the curve. Developers and Engineers working in our state-of-the-art facility have access to the latest tools and direct support from mission experts to help them become next-generation influencers of change in Artificial Intelligence (AI), Deep Learning (DL), and Machine Learning (ML).

Our Products

M.A.C.E

Modular Advanced Cyber Enablement System

Cyber security training for OT & IT systems that incorporates real-world hardware, technology, and environments. The modular design allows users to rapidly transition between multiple custom training scenarios that can be stand-alone or networked for incorporation into a full Cyber Range training program.

CYBERSPAN

AI-Enabled Anomaly Detection at the Boundary

Protection against malicious and anomalous activity at network boundaries. Supervised and Unsupervised AI Learning Models provide fundamental cyber protection and reduce the cybersecurity burden for small-to-medium sized Defense Industrial Base (DIB) companies.

NeuralNexus

Machine Learning as a Service (MLaaS)

Make any sensor smarter with customizable, AI/ML-enabled tools, workflows, and dashboards. Data-agnostic AI integration supporting: real-time threat detection, active prediction capabilities, behavior analysis, data management, vulnerability assessment, and more.



Capabilities

AI/Deep Learning

Bolstered by our NVIDIA™ Deep Learning Pod, our solutions produce real mission outcomes—from Cyber Threat Attribution to Suicide Prevention, and Covid Intervention to Intelligence Analysis.

Advanced Analytics

Discover big data's previously unrealized value. Our analytics and systems enable amalgamation of multi-source intelligence to provide you the complete picture of your data.

Augmented & Virtual Reality

From Digital Twins to Immersive Data Analytics Environments (IDEA), our VR capabilities emulate real-world ICS/SCADA systems to provide a greater understanding of critical infrastructure's cyber-physical risks.

Defensive Cyber Solutions

Custom solutions that keep pace with adversarial capabilities to ensure you maintain the high ground advantage in Artificial Intelligence and Full Spectrum Operations.

Our Capabilities

Cyber Intelligence Missions Division

Offensive/Defensive Cyber Operations (OCO/DCO)

- Full-spectrum cyber experts enabling offensive and defensive operations through data science, digital network analysis, target development, and analytics development for complex discovery
- Cybersecurity and anomaly detection capabilities that identify, attribute, defend against, and mitigate malicious cyber activities
- Computer Network Exploitation (CNE) capabilities to understand adversarial strengths and weaknesses

Intelligence Analysis and Reporting

- Intelligence and Language Analysis to identify, collect, analyze, process, and disseminate critical information and provide efficient SIGINT analysis and production services
- Analytics development in Python and other languages to enable scripting and automations that increase throughput and improve accuracy

Language Analysis

- Translation, transcription, and reporting on foreign language intelligence, from prominent languages to niche dialects
- Direct mission support to real-time analysis, collection activities, and target development/discovery



Training Division

Specialized Courses

- Customer-focused collaboration to identify mission requirements and integration of firsthand knowledge on the real-world national security and cyber mission challenges
- Course design and development using our proven IGnuity™ process, creating mission and technical specializations to develop the skills necessary for successful mission execution in dynamic environments
- Mission mentoring and skill development from industry experts in OCO/DCO TTPs, Data Science, OSINT, ICS, AI/ML/Deep Learning to increase productivity and mission success

Industry-Standard Certification Courses

- Collaboration with industry leaders NVIDIA and Security Onion Solutions to offer a wide variety of standalone certification courses, mentoring programs, and custom training plans to suit your specific certification needs



Engineering Division

Cloud Analytics

- Structured and unstructured data processing to access and manage the unrealized value of big data
- Analytics development to increase the insight derived from your data, improve processing efficiency, and maintain compliance

Artificial Intelligence

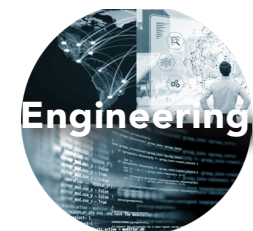
- Rapid AI capability development and tradecraft advancement to support real-time mission needs
- Predictive analytics and anomaly detection that provide early warning against threats in both cyber and physical domains

Mission Engineering

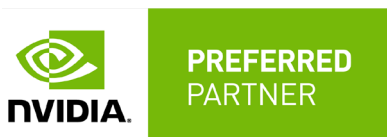
- Full-lifecycle development of agile, customizable analytics and cyber solutions to help automate, enrich, and improve operational workflows
- Scalable solutions for Big Data and Cloud analytics using industry-standard technologies like AWS

Operational Optimization

- Agile software development and DevOps processes that ensure code quality, reusability, and adaptability
- Automation of existing technologies through integration of data analytics, trend analysis, enrichment, and reporting abilities



Our Partners



Qualified NVIDIA Partner Network Member

Integrate our capabilities and expertise with leading-edge GPU technology driving AI/ML and Predictive Analytics solutions and tools. Hands-on application of AI/ML/DL capabilities with in-house experts to mentor the next generation of AI/ML/DL innovators and practitioners.



Exclusive GSA Partner with Security Onion

Easy access to Security Onion Solutions Training for detection engineering and analysis tools via GS-35F-460DA provide suite introduction and best practices for intrusion detection, enterprise security monitoring, and log management.