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"The Art of the Possible"

IG Labs Division (Technology Engineering & Internal Research and Development)

IG Labs is a hands-on technology incubation environment where employees, customers, and partners can advance IR&D projects focused on Artificial Intelligence (AI), Machine Learning (ML), Data Science, and Deep Learning. IG Labs provides the necessary tools, subject matter expertise, and training to improve cybersecurity skills and advance industry tradecraft. Partnerships with industry leaders like NVIDIA, Sealing Tech, Maxar Technologies, Security Onion Solutions, and others ensure that new solutions integrate the absolute latest capabilities and technology.



AI/ML/Deep Learning and Predictive Analytics

- Mission-focused AI capabilities including Supervised/Unsupervised Learning techniques, Clustering, and Collaborative Filtering to expedite data processing and create next-generation custom analytics
- Cutting-edge predictive analytics utilizing Neural Networks and Random Forests techniques that increase the speed, efficiency, and effectiveness of big data and all-source analysis

Critical Infrastructure Cybersecurity

- Industrial Control System (ICS) fabrication lab and Cyber-Physical Data Lab environments providing both emulated and physical critical infrastructure to enable realistic, converged IT/OT ranges for full spectrum cyber operations

Cyber Range

- In-house cyber environments and supporting infrastructure tailored toward Red Team, Blue Team, Pentesting, and Black Box training to hone operators' cyber Tactics, Techniques, and Procedures (TTPs)

Internal Research and Development

- Custom solution development and discovery of next-generation electronic warfighting techniques leveraging AI and immersive technologies like AR/VR, 3D Printing, and Cyber-Physical environments on NVIDIA GPU platforms

Cyber Division (Mission Engineering)

IntelliGenesis provides technical mission personnel to support cyber operations throughout the DoD and Intelligence Community with development and deployment of advanced analytic solutions and technical services that solve customers' real-time mission requirements.



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) discovery capabilities to understand adversarial strengths and weaknesses

Engineering & DEVSECOPS

- 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
- Rapid AI capability development and tradecraft advancement to support real-time mission needs

Analysis and Reporting

- Intelligence and Language Analysis to identify, collect, analyze, process, and disseminate critical information and provide efficient SIGINT analysis and production services

Training Division (Instructional Engineering)

IntelliGenesis delivers highly technical training, mentoring, and certifications for the most in-demand tools and techniques to promote tradecraft development and enablement within real-world mission environments as part of the National Cryptologic University (NCU).



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

IG Labs Capabilities

Over the last nearly two decades, IntelliGenesis has been a powerhouse providing Government analytics and training to scores of cybersecurity analysts, intelligence analysts, data scientists, and software engineers. The biggest challenge currently is how to address the gap for analysts that may not have strong programming backgrounds, or even are hesitant whenever they see a command line interface. Our answer was the creation of IG Labs which houses our Internal Research and Development. IG Labs focuses on Artificial Intelligence, Machine Learning, Data Science and Deep Learning.

IG labs is home to our NVIDIA partnership which brings DGx level power to a small business. This system allows veteran cybersecurity analysts and data scientist to test new ways to interact with data. Our current focus has been in the development and deployment of corporate solutions to conduct AI-based real-time threat detection at scale. IG Labs provides the necessary tools, subject matter expertise, and training to improve cybersecurity skills and advance industry tradecraft.



AI/ML/Deep Learning and Predictive Analytics

- Integrating mission-focused AI capabilities like Supervised/Unsupervised Learning techniques, Clustering, and Collaborative Filtering expedites data processing capabilities and expands the possibilities for next-generation custom analytics.
- Our cutting-edge predictive analytics utilize Neural Networks and Random Forests techniques that increase the speed, efficiency, and effectiveness of big data and all-source analysis.



Modular Advanced Cyber Enablement (MACE) Systems

- MACE is a modular Defensive Cyber Operations (DCO) training and response system that integrates both traditional enterprise systems and emerging operational technology (OT) capabilities.
- The MACE system combines real-world physical components with virtual emulation to create an immersive environment where operators can refine hands-on skills and develop competencies with emerging technologies.
- MACE comes provisioned with expansive in-house cyber environments and supporting infrastructure from IG Labs, all tailored toward Red Team, Blue Team, Pen Testing, and Black Box training exercises to hone operators' cyber Tactics, Techniques, and Procedures (TTPs).



Augmented Intelligence

- We create AR/VR capabilities with reusable processes and on unified architectures to create insightful AI-based visualizations instead of dull dashboards. Cybersecurity gamification also puts users inside of a network, giving a more in-depth understanding of its components and connections.
- Our AI solutions are designed to support cross-domain deployment, expanding their usability.



Cybersecurity Intelligence

- Domain experts with direct mission experience are available daily to provide mentoring support
- Defensive Cyber Operations on real-world network traffic and tool suites allows the creation of new data processes.
- IG Labs provides a wide variety of ICS/SCADA capabilities to create digital twins and large scale network visualizations of existing systems or for research into new configurations.



Internal Research and Development

- IG Labs enables custom solution development and discovery of next-generation electronic warfighting techniques that leverage AI and immersive technologies like AR/VR, 3D Printing, and Cyber-Physical environments on NVIDIA GPU platforms.

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.

