



The Art of the Possible

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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, Machine Learning, Data Science, and Deep Learning.



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

IntelliGenesis Key Differentiators

Advanced Applied Data Science

- IntelliGenesis uses a unique data lab sandbox environment and proven development methodologies to create next-generation predictive analytics that improve anomaly detection, cyber-threat identification, Natural Language Processing (NLP), sentiment analysis, and more
- We move missions forward with applied research and development of data ingestion platforms, data modeling, grooming, enrichment, algorithmic model identification, visualization, storage, and governance that equip customers with a deeper understanding of their data
- Our in-house AI/ML/DL workforce is comprised of mission experts and data scientists with an average of 15 years' mission experience who continually prepare for the future of analytic, cyber, discovery, and development challenges and capabilities

Artificial Intelligence, Machine Learning, and Deep Learning Development

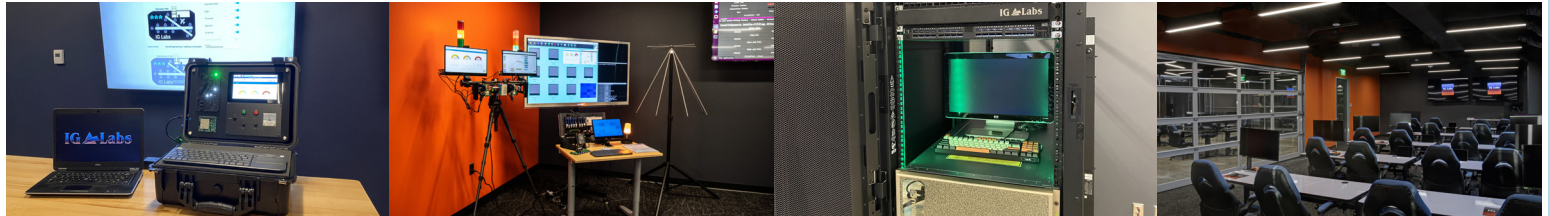
- IG Labs is powered by NVIDIA DGX A100 systems that expedite AI/ML/DL development and the operationalization of new capabilities. These on-premise training and inference capabilities accelerate development cycles and increase the accuracy and fidelity of AI products
- We provide hands-on lab and training environments that enable users of all expertise levels to improve their AI/ML/DL skills and ability

Cyber-Physical Platform

- IntelliGenesis' cyber-physical data lab helps analysts and engineers examine the inter-workings of Operational Technology (OT) network components, their inputs/outputs, and how they can be disrupted. Users can also build, test, and refine mock systems in a controlled sandbox environment to ensure issues are identified and repaired prior to real-world deployment

Cyber Range / Capture the Flag (CTF)

- Our cyber range is a scalable virtual network environment able to emulate the size and equipment configuration of any real-world system, where users can test and apply new tactics, techniques, and procedures for integration into real-world operations
- We also develop custom CTF exercises that allow customers to conduct OCO/DCO training operations to continuously refine technical skills and build the cyber competencies of their workforce



Cyber Response Flyaway Kits

ICS/SCADA Training Platforms

NVIDIA DGX A100 GPU

IG Labs Training Center

Key Partnerships



PREFERRED
PARTNER

Security  **ONION**
SOLUTIONS

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

Applied Research Past Performance (SBIR Contracts)

CYBERSPAN - Machine Learned Cyber Threat Behavior Detection

- Apply Unsupervised Learning techniques to detect suspicious behavior on networks of any size
- Correlate anomalies to known attack patterns to pinpoint the nature of the threat
- Develop Cyber Threat Models to provide early warning by identifying likely future cyber attack vectors
- Create cyber analytics to understand network behaviors and create extensive Network Activity Visualizations

RIALTO - Forensic Models of Cyberspace Behaviors

- Predict potential future cyber attacks by providing critical insight for Defensive Cyber Operators to provide Indication & Warning (I&W) intelligence and prioritize mitigation efforts
- Develop and apply advanced machine learning techniques to predict behaviors of malicious cyber entities/Advanced Persistent Threats (APTs) and TTPs
- Provide discovery and collaborative filtering of TTPs shared between previously unassociated APTs
- Innovative Attacker Search feature enabling analysts to attribute malicious actions on their network sensors to known entities and their common techniques

WATCHTOWER - Human Behavior Analytics Tool

- Utilize personnel data to predict service member suicide risk using Random Forest, Neural Network, and Sentiment Analysis models of demographic data, life events, job information, and performance reviews to compute risk levels
- Enable Plug-and-play Risk Module architecture to provide results of multiple models to be combined into an overall risk score

