



Capabilities Overview

G2 Ops, Inc. (G2 Ops) provides leading-edge systems modeling, systems engineering and cybersecurity solutions for United States Department of Defense (DoD) agencies and commercial clients. Our teams of seasoned cybersecurity, software and systems engineers bring decades of experience in modeling and analytics to improve systems and illuminate cyber strengths and weaknesses. We've been recognized both by clients and the media for our pioneering applications of Model-Based Systems Engineering (MBSE) to solve complex challenges.

Model-Based Systems Engineering

G2 Ops is providing MBSE solutions for our nation's most critical networks. MBSE is radically changing how systems are developed and modernized, enabling greater visibility to distributed technology infrastructure and predictions of risk, performance and cost. Digital twins created by MBSE are used for architecting or remediating systems of systems where complex interdependencies exacerbate the challenges of identifying risk levels and establishing viable project plans and budgets.

G2 Ops has used MBSE for:

- Acquisition and capabilities requirements development
- Baseline/change management
- Interface and integration risk management
- Systems of systems GFE management
- Performance modeling and simulation
- Test and evaluation development
- Thread reliability, maintainability and availability (RMA) optimization
- Unified cyber risk management
- Department of Defense Architecture Framework (DoDAF) artifact development

COMPANY FACTS

Certification:

Woman-owned small business

Classification code:

NAICS 541330

Employees: 72

Locations: 3

- *Arlington, VA*
- *San Diego, CA*
- *Virginia Beach, VA*

Prime contract vehicles: 5

- *CECOM*
- *Commonwealth of Virginia*
- *GSA*
- *Maneuver Support Center of Excellence*
- *SeaPort-e*

Security Clearance:

Top Secret Facility

CONTACT

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Cybersecurity Engineering

G2 Ops delivers tailored technical, programmatic and sustainment services for the United States DoD's most sensitive systems and networks. Our cybersecurity experts apply G2 Ops' unique capabilities with industry-leading tools to design and assess systems having the confidentiality, integrity and availability needed to safeguard our military's critical infrastructure.

Our core services include:

- Cybersecurity systems analysis and mitigation to address system architecture risks
- Penetration testing, vulnerability assessments and risk assessments of strategic and tactical technology assets
- Transitioning systems from the DoD Information Assurance Certification and Accreditation Process (IACAP) compliance framework to Risk Management Framework (RMF)
- Review and refinement of Defensive Cyber Operations (DCO) and Computer Network Defense (CND) policies and processes to comply with regulations and guidance

Software Engineering

G2 Ops has specialized expertise in the development of secure, data-driven, cloud-based solutions for global distribution in the public and private sectors. Our engineers employ a systematic, standards-based design approach in conjunction with a contemplative data strategy that incorporates advanced analytics, machine learning techniques and proprietary risk management algorithms.

Our software and analytical services include:

- Web application design, development and testing
- Relational and NoSQL database design, development and maintenance
- Data mining and pattern discovery
- Data cleansing and format conversion
- Information visualization and user reporting
- Systems integration/application programming interface (API) development
- Machine learning and predictive analysis
- Agile software development and build methodologies