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**National Geospatial-Intelligence Agency (NGA)**



**Director's Support (OSO/DOM)**

**Task Order (TO): 0004**

**Statement of Work (SOW)**

**10 June 2020**

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## 1.0 Introduction

This Statement of Work (SOW) supports a Task Order (TO) procurement of Systems Engineering and Integration (SE&I) support for the Office of Strategic Operations and Mission Management Integration Group (DOM). Introduction, background, objectives and scope material contained in the Base NEE SOW are applicable to this TO. The contractor shall provide all appropriate support to assist accomplishment of the requirements stated below.

### 1.1 Background

Established in January 2016, the Office of Strategic Operations (OSO) unifies strategy efforts across NGA as a single voice for cross-agency collaboration on strategy achievement. The OSO Front Office and two divisions work toward strengthening the traceability and alignment of NGA's activities, plans, and funding to achieve future capabilities described in NGA's Strategy. This work aligns strategic vision and strategies across NGA's directorates, mission partners, private partners in business and academia, foreign allies, and the Intelligence Community (IC).

The Strategic Formulation Division (OSOS) develops, unifies, and communicates strategy. The Data Analytics Division (OSOD) conducts analytics and measures strategic progress. These activities enable NGA to effectively and efficiently execute the GEOINT mission now and in the future.

The Mission Management Integration Group (DOM) aligns, integrates, and drives global GEOINT operations across missions, disciplines, and organizations to achieve US national security and defense objectives. DOM is organized into two divisions, the Mission Management Council (MMC) composed of the 11 National System for Geospatial-Intelligence (NSG) GEOINT Mission Managers (GMM) and Senior GEOINT Authorities (SGA); the second division is the Mission Management Integration Group staff, who provide integration support to the GMMs. Each GMM conducts GEOINT integration through six primary activities including:

- a. Synchronize Crisis Response
- b. Engage the Global GEOINT Enterprise and Customers
- c. Represent the GEOINT Enterprise in Senior level fora
- d. Prioritize GEOINT Mission Needs and Risks
- e. Assess Mission Performance
- f. Inform Strategic Decisions and Investments

### 1.2 Scope

The Contractor shall perform SE&I work in accordance with the requirements specified in this task order. The Contractor shall apply Model-Based System Engineering (MBSE) methods and tools and support the Government with integration efforts across the enterprise. A brief description of the engineering activities to be supported under this Task Order are as follows:

- **Enterprise Integration Engineering (Cross Organization and Program Office).** The NEE contractor shall provide Cross Organization and Program Office integration services to

ensure discrete program and project level solutions come together seamlessly to deliver comprehensive mission capabilities.

## **2.0 Applicable Documents**

Applicable documents specified in this section are required for execution of the work described in the TO SOW. These documents provide additional detail to those listed in the Base SOW.

### **2.1 Compliance Documents**

Refer to Base SOW.

### **2.2 Reference Documents**

- NGA Strategy 2025
- National Intelligence Guidance (ASF)
- Consolidated Intelligence Guidance (ASF)
- Defense Intelligence Strategy (ASF)
- Data Management and Analytics (NGAD 8005)
- Integrated GEOINT Plan

## **3.0 Description of Work**

### **3.1 Enterprise Integration Engineering (Cross Organization and Program Offices)**

The Contractor shall provide support under the Enterprise Integration Engineering (Cross Organization and Program Office) requirement to assist the Government with the integration of program and project solutions that cut across organizational boundaries, Program Offices budget programs, and development contracts; and therefore; requiring a corporate approach to integration ensuring the multiple parts come together seamlessly to deliver integrated solutions. It shall include interface/service definition support (both internal and external to the agency) to recommend, develop, document, and implement the necessary interfaces to achieve the NGA vision, NGA Strategy 2025, and the Integrated GEOINT Plan.

Enterprise Integration Engineering includes support for, but is not limited to, the activities that follow.

#### **3.1.1 Enterprise Coordination of Integration Support**

The NEE contractor shall provide Integration services aligning the planned, in-work and delivered capabilities, programs, projects, systems, segments and services ensuring that all the parts successfully connect and operate together. Enterprise Coordination shall support the NGA

Government POCs with enterprise program integration activities. These programs have integration responsibilities that span the NGA, NSG, ASG, USG, Mission Partner, commercial, and foreign partner enterprise.

Enterprise Coordination of Integration activities the contractor shall support in the performance of this Task Order include, but are not limited to:

- a) Provide support enabling OSO to lead NGA Strategy formulation and the planning, programming and operational elements required to implement the NGA Strategy. Support OSO leading the NGA on issues concerning future GEOINT plans, policy, programs, architecture, operations, acquisition, research and development, training, tradecraft and education, providing technical assessments, and investment/divestment recommendations in support of NGA program build and budget process.
  - Support OSO in the annual Development of the Planning Guidance for the Program Build
  - Support OSO in the annual delivery of the Strategic Mission Assessment
  - Support OSO in the assessment of Program Build linkage to the goals, objectives and expected accomplishments of the agency.
  - Support OSO in the delivery of Strategic documents based on Agency direction (as directed by the D, DD, EXDIR, and ADs)
  - Provide enabling support for next generation tasking, anticipatory analytics and immersive integrated intelligence initiatives optimizing big data-driven intelligence problem-solving and decision-making, leveraging AAA (Automation, Augmentation, Artificial Intelligence) and AIM (Automating Intelligence using Machines).
  - Support senior level decision making councils with data-driven analysis to enable alignment of resources to the strategy.
  - Partner with corporate team members to develop informed, inclusive data-driven recommendations to agency leadership.
  - Support OSO by driving the adoption of the future GEOINT strategy by communicating concepts, providing guidance, and overseeing operational implementation
- b) Provide support enabling OSO to lead planning, programming and operational activities required to implement the Corporate Analysis and Visualization Environment (CAVE)
  - Support the governing and maturing the NGA's corporate data, to ensure data is accurate, accessible, and coordinated amongst other data sources. Provide architecture/system engineering support for the planning, design, implementation and integration of architectures/systems and the integration of capabilities across existing and emerging corporate NGA architectures and future systems.

- Support OSO by enabling the adoption of the future GEOINT strategy by communicating concepts, providing guidance, and supporting the operational implementation of CAVE requirements.
  - Support OSO by enabling seamless enterprise business requirements definition that will develop, document, and implement the necessary business solutions to achieve the CAVE vision.
  - Support OSO by providing the capability to capture corporate data from multiple systems and warehouse the data to allow effective joins, quantification, visualization, and reporting. Enable the forecasting of behavior, performance, and analyze trends.
- c) Provide integration support in the form of Information Architecture and data analysis artifacts enabling strategic decisions and investment, needs and risk prioritization, crisis response synchronization, and mission partner assessment; while representing the information and decision support needs of DOM Support Staff, Mission Managers, and Senior GEOINT Advisors during ASG/NSG Enterprise and Customer engagements.

## 3.2 Transition

### 3.2.1 Transition Plan

As part of the transition, the contractor shall provide a staffing plan detailing the onboarding of all personnel identified in Appendix A. The plan shall describe the contractor employee names, company, clearance information, polygraph information, and dates of submittal into e-Nom.

The Contractor shall comply with the guidance in the table below.

**Table 1: Transition Availability**

Calendar Days After Award	Contractor Personnel
7 Days & 14 Days	<ul style="list-style-type: none"> <li>• All Key Personnel eNomination Requests (eNom) submitted (within 7 days) and available for task order performance (within 14 days).</li> </ul>
30 Days	<ul style="list-style-type: none"> <li>• At least 100% of all staff eNom submitted and available for task order performance.</li> </ul>

#### 3.2.1.1 Security Onboarding

The Contractor's key personnel and any other personnel requiring access to classified systems shall have active Top Secret and be Sensitive Compartmented Information (TS/SCI) eligible at contract award.

To minimize the risk of a delay in supporting transition startup, the Contractor's Security Office shall use the NGA eNomination system to nominate employees for personnel security

clearances, facility badges, and system access. Upon security clearance approval, the Contractor shall schedule their personnel for clearance briefing and badges with the appropriate office(s) at NGA.

### **3.2.1.2 Sensitive Compartmented Information Facility (SCIF)**

Any SCIF(s) that will be utilized to perform SCI work at contract sites must be coordinated with the CO and NGA Physical Security Team 7 days after award to ensure NGA authorization and accreditation is granted for NEE work to be performed in the contractor SCIF. Note: All SCI work performed at a Contractor site must be performed in either an NGA accredited Sensitive Compartmented Information Facility (SCIF) or an Other Government Agency (OGA) SCIF that has either a Memorandum of Agreement (MOA), Memorandum of Understanding (MOU), Joint Use Agreement or Co-Use Agreement with NGA for this effort.

### **3.2.2 Transition Closeout**

The Contractor shall support transition to another Contractor as directed by the Government (commencing 30 Days before the end of the contract). The Contractor shall review and transition knowledge and relevant information concerning enterprise engineering, architecture, and integration and standard operating procedures. The Contractor shall provide at a minimum the following items by the end of the contract in accordance with Government direction:

- Hardware and software development documentation that provides a comprehensive detailed description of the current operational baseline for each security domain. The documentation will at a minimum, contain the following: systems architecture, CM, software configuration, COTS integration, and capture of the hardware and software architectures.
- Operating system and application software with annotated source code for each security domain, including software under current development or test that is yet to be deployed. The Contractor shall provide the software in an industry standard format such as Microsoft TFS.
- Operational system data and database information, both current and historical, including user account data, metadata catalogs, stored imagery and products, system diagrams, and knowledge bases.

The Contractor shall conduct an organized transfer of Government-furnished equipment (GFE), Government-furnished property (GFP), and Government-furnished information (GFI), to include manufacturer maintenance agreements and software licenses as directed by the CO. The Contractor shall generate a report containing the final disposition of all NGA property.

The Contractor shall support the decommissioning and disposal of all Information Technology (IT) systems as directed by the Government. The Contractor shall follow NGA's Decommissioning Disposal Review (DDR) process that is specific for hardware and software. The Contractor shall follow all processes in the DDR checklist for hardware and software,

including maintenance of a Property Book to keep hand receipts, review signatures, and other acceptance criteria.

### **3.3 Deliverables**

The following sub-sections describe each of the Contract Data Requirements List (CDRL) documents required in support of this contract. A brief summary of these CDRLs is also shown in table form in the CDRL Matrix of this document.

#### **3.3.1 Kick-Off Meeting**

The contractor shall schedule a kick-off meeting with the CO, PM and COR and GPOC within 10 calendar days of task order award.

#### **3.3.2 Quarterly Reviews**

The contractor shall conduct Quarterly Program Management Reviews (PMR) of the data generated in preparation of the Status Report to address quarterly data and other pertinent management information. The review shall include Government requested information and shall include, but is not limited to:

- a. Contract management reporting
- b. Task progress and Funding Status Report
- c. Projected changes in manpower and redistribution based on customer organization needs, manpower and recruiting summary
- d. Security issues
- e. Contractual action items
- f. Task order accounting data documentation
- g. Comparison of total contract funding to invoiced services
- h. Any special interest items requested by the Government or provided at the contractor's initiative
- i. Task Order Requirements Review (as needed)

These reviews may also address, in general, the efforts, challenges, problems, and accomplishments of contractor personnel in the respective task areas. The contractor shall provide the PMR agenda and briefing slides three (3) business days prior to the meeting and PMR minutes within five (5) calendar days following the meeting. Government program and contract management may require other compilations of data to ensure adequate insight into the task order execution. This review shall be held with the PMO, CO and task order COR.



### 3.3.3 Monthly Financial Report (MFR)

The Monthly Financial Report (MFR) shall provide a summary of all program activity. The report will have specific content by task order and with contract expenditures and rates.

### 3.3.4 Monthly Staffing Report (MSR)

As part of the Monthly Staffing Report (MSR), the contractor shall provide one (1) electronic softcopy of an updated staffing report. The MSR supports the tracking of contractor's proposed personnel (i.e., designated position number or identifier, Prime/Sub-contractor, name, labor category, start/end date, office, geographical location, and other fields of information as may be determined at a later date). A template for the MSR will be provided.

### 3.3.5 Monthly Activity Report (MAR)

The contractor shall submit a technical monthly activity report (MAR) to the COR no later than the 15th of each month.

### 3.3.6 Technical Exchange Meetings (TEM)

The contractor shall schedule and support technical exchange meetings to collaborate and coordinate technical planning. The contractor shall record and submit minutes from the meetings.

### 3.3.7 CDRL Matrix

The CDRL Matrix List, shown in the table below is a list of all Contractor-provided deliverables that shall be met throughout the contract. All deliverables will be submitted in formats compatible with Adobe or Microsoft Office products. Softcopy delivery (via e-mail, etc.) is the preferred method of exchange for electronic copies. Deliveries will be made to the PM, CO, COR and/or Alternate COR (ACOR) as specified in the table below.

CDRL Title	CDRL #	SOW Section	First Submission	Updates	Delivered to	Format and number of deliverables
Quarterly Program Management Reviews	001	3.3.2	Award +120 Days	Quarterly	PM/CO/COR	1 Electronic Copy to PMO Email Address Contractor Defined, Government Approved
Monthly Financial Report	002	3.3.3	Award +30 Days	Monthly	COR/GPOC	1 Electronic Copy to PMO Email Address Contractor Defined, Government Approved
Monthly Staffing Report	003	3.3.4	Award +30 Days	Monthly	COR/GPOC	1 Electronic Copy to PMO Email Address Government Defined
Monthly Activity Report	004	3.3.5	Award +30 Days	Monthly	COR/GPOC	1 Electronic Copy to appropriate TM Email Address(es)

						Contractor Defined, Government Approved
Transition Plan	005	3.2.1	Award + 7 days	As Required	PM/CO/COR	1 Electronic Copy to PMO Email Address Contractor Defined, Government Approved
Reports, Briefings, Evaluations, Technical Assignments, Transition Plan, Minutes, White Papers Etc.	006	3.0	As Required	As Required	COR/GPOC	1 Electronic Copy to PMO Email Address, or applicable Technical Monitor Contractor Defined, Government Approved
Data Architecture Products, Analysis and engineering	007	3.1.1	As Required	As Required	COR/GPOC	1 Electronic Copy to PMO Email Address and/or PMO artifact repository, or applicable Technical Monitor, Contractor Defined, Government Approved

### 3.4 Labor

Refer to Appendices A and B for estimated number of staff, overall description of work, duties, skills and education.

## 4.0 General Provisions

### 4.1 Primary Place of Performance

The primary place of performance for this Task Order is NCE.

### Telecommuting (Telework)

In emergency situations, unclassified teleworking and alternate worksites may be permitted under this NEE task order as determined in writing by the CO, unless the CO determines that the Contract/Task Order requirements, including security, cannot be met if telecommuting is permitted.

Telework requests must be coordinated through the GPOC and COR, with final written approval from the CO. Any telework that takes place without written approval from the CO will be considered unallowable. Contractors (Prime and Subcontractors) are responsible for predetermining and disclosing their charging practices for telecommuting in accordance with FAR 7.108, applicable cost accounting standards and company policy. Contractors shall follow their disclosed charging practices.

Telecommuting will be monitored by the COR and GPOC. All telecommuting hours must be noted and broken out separately in the Contractor's invoices. In addition, the Contractor shall include telework as part of their weekly/monthly activity reports, the following information at a

minimum should be included in the reports for all of the Unclassified telecommuting work functions performed:

- Contractor Name(s);
- GPOC who is receiving direct support from the Contractor via telecommuting (other than PMO);
- Dates and number of telecommuting hours being charged to the contract; and
- CLIN(s) charged.

See the listing in Appendix B: Position Descriptions

## 4.2 Government Furnished Property (GFP)

The Government will provide the following GFP for Task Order 0004:

**Hardware:** Hardware will be provided by the Government. For Contractors located at the Government site (on-site), this includes access to thin client COE and SBU networks; unclassified and classified VoIP phones, and printers.

For Contractors located at the Contractor-provided site (off-site), this includes (at a minimum): High side/classified/COE: thin clients, monitors, VoIP phones, printers, plotters and VTCs. Note for Contractors located at the Contractor-provided site (off-site): This does NOT include unclassified equipment (phones, computers, etc.). The costs associated with these needs are the responsibility of the Contractor.

**Tools/Software:** Any tools/software required by the Contractor, not currently identified will have to go through the NGA Software Whitelist Assurance Process (SWAP) for approval prior to being placed on any NGA systems. The Contractor will be expected to use the provided tools/software to execute the TO 0004 SOW requirements until such time any new tools/software are approved and available for operational use on NGA systems.

For both on-site and off-site, the Government will provide a standard profile of Office productivity tools that includes Microsoft Office, Adobe Reader and 7-Zip file manager.

**Data:** The Government will provide access to all available NGA data to support the requirements of the Task Order 0004 SOW.

**Access:** The Government will facilitate access to Government facilities (to include badges) provided that the need for the access is validated and the security requirements of the contract are met. If other personnel security accesses are required, the Government will provide the sponsorship for additional accesses. The Government will provide access to information and data, relative to the tasks required to include sponsoring classified network connectivity.

## 4.3 Foreign Contacts

Refer to the Base SOW.

## **5.0 Security**

Refer to the Base SOW.

## **6.0 Key Personnel**

The positions highlighted in blue in Appendix A are Key Personnel, subject to the Key Personnel clause included in the base contract.

## **7.0 Travel and Other Direct Costs (ODCs)**

Refer to Section H.4 in the Base contract.

## Appendix A: Anticipated Support Requirements

The requirements needed to adequately support this Task Order are listed in the table below. Position description information for government-defined labor is provided in Appendix B. The location column indicates the primary work location for contractor personnel.

### Government Defined (RDT&E)

Position ID*	Location	Position Description #	TO Section	FTE	Skill Level	Service Category	Job Title
01-04-OSO-01-0001	NCE	1	3.1.1.a, 3.1.1.b	1	4 – Expert	Engineering and Architecture	Systems Engineer
01-04-OSO-02-0002	NCE	1	3.1.1.a, 3.1.1.b	1	4 – Expert	Engineering and Architecture	Systems Engineer
01-04-OSO-03-0003	NCE	1	3.1.1.a, 3.1.1.b	1	4 – Expert	Engineering and Architecture	Systems Engineer
01-04-OSO-04-0004	NCE	2	3.1.1.a, 3.1.1.b	1	3 – Senior	Engineering and Architecture	Systems Engineer
01-04-OSO-05-0005	NCE	2	3.1.1.a, 3.1.1.b	1	3 – Senior	Engineering and Architecture	Systems Engineer
01-04-OSO-06-0006	NCE	2	3.1.1.a, 3.1.1.b	1	3 – Senior	Engineering and Architecture	Systems Engineer
01-04-OSO-07-0007	NCE	2	3.1.1.a, 3.1.1.b	1	3 – Senior	Engineering and Architecture	Systems Engineer

### Government Defined (O&M)

Position ID*	Location	Position Description #	TO Section	FTE	Skill Level	Service Category	Job Title
01-04-DOM-01-0008	NCE	3	3.1.1.c	1	4 – Expert	Senior Management	Functional Specialist Advisor
01-04-DOM-02-0009	NCE	3	3.1.1.c	1	4 – Expert	Senior Management	Functional Specialist Advisor
01-04-DOM-03-0010	NCE	4	3.1.1.c	1	3 – Senior	Senior Management	Functional Specialist Advisor

**Appendix A Key:**

Signifies Key Personnel Position



AA-BB-CCCC-12-3456 (First two Columns of Table)

Characters	Description
AA	Statement of Work Number
BB	Task Order Number
CCCC	Organization Code Position Supports
12	Organization Number
3456	Position Number

Skill level definitions for each service category are defined as follows. While the experience requirements for each level are the same across each service category, the associated labor rates may not be.

Skill Level	Total Experience (in years)
4 - Expert	18+
3 - Senior	12+ to 18
2 - Mid	6+ to 12
1 - Junior	0 to 6

These lists of job titles should be considered a sample and are not all inclusive.

**Senior Management**

Sample job titles may include, but are not limited to: Program Manager, Technical Lead Integrator, Business Process Manager, Functional Specialist Advisor

**Engineering and Architecture**

Sample job titles may include, but are not limited to: Integration Engineer, Software Engineer, Enterprise Architect, Data Architect, Data Scientist, Data Modeler, Cyber Security Engineer, Systems Analyst, Systems Architect, Systems Engineer, Systems Integrator, Network Systems Engineer, Cloud Architect, Cloud Engineer, Human System Integrator

**IT Engineering**

Sample job titles may include, but are not limited to: Configuration Manager, Computer Programmer, Tech Writer, Software Quality Assurance Specialist, Schedule Analyst

**Administration**

Sample job titles may include, but are not limited to: Database Administrator, Web Administrator

## Appendix B: Position Descriptions

### **Position 1: Systems Engineer (Expert)**

#### **Overall Assignment Description:**

Expert Systems Engineers assist in leading engineering teams in taking a multi-discipline approach to requirements engineering, solutions engineering, scheduling, reliability, resiliency, services development, integration, test and evaluation, maintainability and analysis across the National System of Geospatial-intelligence (NSG), Allied System of Geospatial-intelligence (ASG) and Federal Agencies to ensure timely and accurate GEOINT.

#### **Duties include:**

- Assists the Government in directing requirements engineering, solutions engineering, scheduling, reliability, resiliency, services development, integration, test and evaluation, maintainability and analysis across the National System of Geospatial-intelligence (NSG), Allied System of Geospatial-intelligence (ASG) and Federal Agencies.
- Assists with the planning, analysis/traceability of user requirements, architectures traceability, procedures, and problems to automate or improve existing systems and review cloud service capabilities, workflow, and scheduling limitations.
- Advises the Government on proposed changes to the solutions designs based on analysis of requirements and new technology.
- Assists the Government in the capture and translation of mission and customer requirements/needs into systems/capability requirements and solutions.
- Supports the analyses and allocation of requirements to systems architecture components and executing programs.
- Assists the Government in performing systems integration activities.
- Assist in leading Analysis of Alternatives (AoAs), Course of Actions (CoAs), Trade Studies, and Engineering Assessments.
- Assists the Government in strategic technical planning, project management, performance engineering, risk management and interface design.
- Provides advice to the Government in the areas of relating vision, strategy, plans, needs, requirements, and process and capability developments.
- Assists in integrating multiple Major Systems Acquisitions across organizational, agency, department, and governmental/national boundaries.
- Demonstrated knowledge of the current NSG/ASG and NRO enterprises.

- Oversees and coordinates the work of Senior-, Mid-, and Junior-level contractor Systems Engineers.

**Skills and Experience:**

Required:

- Master's degree in Systems Engineering or in related technical or scientific fields such as engineering, physics, mathematics, operations research, engineering management, Computer Science, Information Technology, Management Information Systems, or related STEM degree program or equivalent Expert level working experience as a Systems Engineer. Master's in Business Administration will be accepted on a case-by-case basis.
- Experience in government or industry in relevant work areas including: DoD/IC Acquisition Process, Requirements Process, PPBES Process or system engineering of large complex System of Systems or Service Oriented Architecture/Cloud environments.
- Experience with the systems engineering lifecycle.

Desired:

- Doctorate in Systems Engineering or in related technical or scientific fields such as engineering, physics, mathematics, operations research, engineering management, Computer Science, Information Technology, Management Information Systems, or related STEM degree program.
- Demonstrated experience with Model Based Systems Engineering, processes, tools and languages.
- Software Development Framework certification.
- INCOSE Expert System Engineering Professional (ESEP) certification.
- Licensure as a professional engineer.
- Membership or leadership participation in any of the following professional organizations:
  - ACSM
  - ASCE
  - ASPRS
  - OGC
  - SAREM
  - USGIF
- Demonstrated experience with information engineering and/or business analytics
- Experience in the field of geospatial intelligence.
- Experience engineering solutions using Cloud-based technologies.



- Experience engineering solutions using structured and unstructured Big Data.
- Experience engineering solutions using Automation, Augmentation and Artificial Intelligence technologies.
- Experience in photogrammetry, remote sensing, image science, information sciences, geographic information systems, geomatics, or related fields.

**Position 2: Systems Engineer (Senior-Level)****Overall Assignment Description:**

Senior-level Systems Engineers guide engineering teams in taking a multi-discipline approach to requirements engineering, solutions engineering, scheduling, reliability, resiliency, services development, integration, test and evaluation, maintainability and analysis across the National System of Geospatial-intelligence (NSG), Allied System of Geospatial-intelligence (ASG) and Federal Agencies to ensure timely and accurate GEOINT.

**Duties include:**

- Guides Mid-level and Junior-level system engineers performing requirements engineering, solutions engineering, scheduling, reliability, resiliency, services development, integration, test and evaluation, maintainability and analysis across the National System of Geospatial-intelligence (NSG), Allied System of Geospatial-intelligence (ASG) and Federal Agencies.
- Guides the planning, analysis/traceability of user requirements, architectures traceability, procedures, and problems to automate or improve existing systems and review cloud service capabilities, workflow, and scheduling limitations.
- Guides Mid-level and Junior-level system engineers developing solutions designs based on analysis of requirements and new technology.
- Assists the Government in the capture and translation of mission and customer requirements/needs into systems/capability requirements and solutions.
- Supports the analyses and allocation of requirements to systems architecture components and executing programs.
- Assists the Government in performing systems integration activities.
- Conducts Analysis of Alternatives (AoAs), Course of Actions (CoAs), Trade Studies, and Engineering Assessments.
- Assists the Government in strategic technical planning, project management, performance engineering, risk management and interface design.
- Operates at the level of integrating multiple systems, services, processes, and interfaces within a Major Systems Acquisitions across organizational and agency boundaries

**Skills and Experience:**

Required:

- Bachelor's degree or higher in Business Administration, Systems Engineering or in related technical or scientific fields such as engineering, physics, mathematics, operations research,

engineering management, Computer Science, Information Technology, Management Information Systems, or related STEM degree program or equivalent senior level working experience as a Systems Engineer. A Bachelor's degree in Business Administration will be accepted on a case-by-case basis.

- Experience in government or industry in relevant work areas including: DoD/IC Acquisition Process, Requirements Process, PPBES Process or system engineering of large complex System of Systems or Service Oriented Architecture/Cloud environments.
- Experience with the systems engineering lifecycle.

Desired:

- Master's degree in Systems Engineering or in related technical or scientific fields such as engineering, physics, mathematics, operations research, engineering management, Computer Science, Information Technology, Management Information Systems, or related STEM degree program.
- Demonstrated experience with Model Based Systems Engineering, processes, tools and languages.
- Demonstrated experience with Software Development Frameworks.
- INCOSE Certified System Engineering Professional (CSEP) certification.
- Experience in the field of geospatial intelligence.
- Licensure as a professional engineer.
- Membership or leadership participation in any of the following professional organizations:
  - ACSM
  - ASCE
  - ASPRS
  - OGC
  - SAREM
  - USGIF
- Demonstrated experience with information engineering and/or business analytics
- Demonstrated experience in photogrammetry, remote sensing, image science, information sciences, geographic information systems, geomatics, or related fields.
- Demonstrated experience with the current NSG/ASG and NRO enterprises.

**Position 3: Functional Specialist/Advisor (Expert)****Overall Assignment Description:**

Provides expertise, guidance, consultation, facilitation, and thought leadership to the client and/or project team based on specialized in-depth expertise in such fields as: engineering and technology; policy and administration; planning; analysis; training and development; facilities; communications; visual design; human capital; business; and management. Ensures that quality is an integral part of the development, design and manufacture of products or services. Monitors requirements through test and measurement activities; manages/leads quality assurance activities.

**Duties include:**

- Provide strategic and technical support to the Associate Directorate for Operations to improve mission prioritization, alignment, and integration through the development and implementation of GEOINT Mission Manager Unifying GEOINT Plans.
- Review existing programs and assist in making refinements, reducing operating time, and improve current techniques.
- Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces.
- Obtain and evaluate information on factors such as reporting formats required, costs, and operational needs to determine mission health.
- Prepare reports and correspondence concerning project specifications, activities and status.

**Skills and Experience:****Required:**

- Master's degree in Computer Science, Engineering, Remote Sensing, Photogrammetry, Image Science, Data Science, Information Technology, Management Information Systems, Geographic Information Systems, Geography, or other related degree program or equivalent Expert level working experience in an engineering field. Master's in Business Administration will be accepted on a case-by-case basis.
- 18+ years of demonstrated experience providing guidance and direction in programs.
- 18+ years of demonstrated experience in guidance, consultation, facilitation, and thought leadership to the client and/or project team based on specialized in-depth expertise in such fields as:
  - engineering and technology
  - policy and administration
  - program management
  - planning
  - analysis

- training and development
- facilities
- communications
- visual design
- human capital
- business

**Desired:**

- Doctorate degree in Remote Sensing, Photogrammetry, Image Science, Computer Science, Data Science, Engineering, Information Technology, Management Information Systems, Geographic Information Systems, Geography, or other related degree program.
- Experience working with DoD/IC Acquisition Process or PPBES.
- Experience with Model-Based Systems Engineering, processes, tools and languages.
- Previous NGA and/or NSG/ASG program/project work experience.
- Previous IC or DoD program/project work experience.
- Experience with Agile software development methodologies.
- Experience with:
  - Project Management software (Project, Primavera)
  - Financial tracking software
  - Customer relationship management CRM software.
  - Enterprise resource planning ERP software.

**Position 4: Functional Specialist/Advisor (Senior)****Overall Assignment Description:**

Provides expertise, guidance, consultation, facilitation, and thought leadership to the client and/or project team based on specialized in-depth expertise in such fields as: engineering and technology; policy and administration; planning; analysis; training and development; facilities; communications; visual design; human capital; business; and management. Ensures that quality is an integral part of the development, design and manufacture of products or services. Monitors requirements through test and measurement activities; manages/leads quality assurance activities.

**Duties include:**

- Review existing programs and assist in making refinements, reducing operating time, and improve current techniques.
- Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces.
- Obtain and evaluate information on factors such as reporting formats required, costs, and operational needs to determine mission health.
- Consult with customers about commercial software solutions, operational planning, and maintenance strategies.
- Confer with data processing and project managers to obtain information on limitations and capabilities for data reporting and metrics projects.
- Prepare reports and correspondence concerning project specifications, activities and status.
- Evaluate factors such as reporting formats required, cost constraints, and need for operational restrictions to determine mission health.

**Skills and Experience:****Required:**

- Bachelor's degree or higher in Computer Science, Engineering, Remote Sensing, Photogrammetry, Image Science, Data Science, Information Technology, Management Information Systems, Geographic Information Systems, Geography, or other related degree program or equivalent Senior level working experience in an engineering field . Bachelor's in Business Administration will be accepted on a case by case basis.
- 12+ years of demonstrated experience providing guidance and direction in high technology programs.
- 12+ years of demonstrated experience in guidance, consultation, facilitation, and thought leadership to the client and/or project team based on specialized in-depth expertise in such fields as:
  - engineering and technology
  - policy and administration
  - program management

- planning
- analysis
- training and development
- facilities
- communications
- visual design
- human capital
- business

**Desired:**

- Master's degree or higher in Remote Sensing, Photogrammetry, Image Science, Computer Science, Data Science, Engineering, Information Technology, Management Information Systems, Geographic Information Systems, Geography, or other related degree program.
- Experience in engineering, design and analysis of IT or related systems experience in all phases of design, development, analysis and documentation, and development of standards and guidelines for tasks being performed.
- Experience working with DoD/IC Acquisition Process or PPBES.
- Experience in Model-Based Systems Engineering, processes, tools and languages.
- Previous NGA and/or NSG/ASG program/project work experience.
- Previous IC or DoD program/project work experience.
- Experience with Agile software development methodologies.
- Experience with:
  - Project Management software (Project, Primavera)
  - Financial tracking software
  - Customer relationship management CRM software.
  - Enterprise resource planning ERP software.