

**General Services Administration**  
**Federal Supply Service**  
**AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICELIST**

**TOTAL SOLUTIONS FOR LAW ENFORCEMENT, SECURITY, FACILITIES MANAGEMENT, FIRE, RESCUE,  
CLOTHING, MARINE CRAFT AND EMERGENCY/DISASTER RESPONSE - MARINE CRAFT AND EQUIPMENT**

**Multiple Award Schedule 84**  
**ACCESS CONTROL & FACILITY MANAGEMENT SYSTEMS,  
INSTALLATION OF SECURITY/PROFESSIONAL SECURITY SERVICES**  
**FSC 874 V**



**DRS Technical Services, Inc.**

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**Herndon, VA 20170**  
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**www.drs.com**  
**Large Business**

**Contract Administrator:**  
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**Contract Number: GS-07F-0073L**  
**Contract Period: December 15, 2000 through 8 Yr/November 14, 2020**



Pricelist current through modification PO-0092, dated October 22, 2015

Online access to contract ordering information, terms and conditions, up-to-date pricing and the option to create an electronic delivery order are available through **GSA Advantage!**, a menu driven database system. The INTERNET address is [www.gsaadvantage.gov](http://www.gsaadvantage.gov).

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at [fss.gsa.gov](http://fss.gsa.gov).

## CUSTOMER INFORMATION:

### 1a. Table of awarded Special Item Numbers for:

SIN 246 35 2	Access Control Systems, Door entry control by touch access, dial, digital, keyboard, keypad including but not limited to Biometric, Voice, Fingerprint, Iris, Hand Geometry, Weight
SIN 246 40	Intrusion Alarms and Signal Systems including audible and visible warning devices (no personal alarms)
SIN 246 42 1	Facility Management Systems (Including Accessories and Repair Parts. Computerized Systems for Surveillance, Monitoring, Controlling, Signaling and Reporting Multiple Function. Security Functions (i.e., access control, fire detection, intrusion, etc.)
SIN 246 52	Professional Security/Facility Management Services including security consulting, training and facility management consulting
SIN 246 60 1	Security Systems Integration & Design Services
SIN 246 1000	Ancillary Supplies and/or Services - Ancillary supplies and/or services are support supplies and/or services which are not within the scope of any other SIN on this schedule. These supplies and/or services are necessary to compliment a contractor's offerings to provide a solution to a customer requirement. This SIN may be used for orders and blanket purchase agreements that involve work or a project that is solely associated with the supplies and/or services purchased under this schedule. This SIN EXCLUDES purchases that are exclusively for supplies and/or services already available under another schedule.

### 1b. The lowest priced models and labor rates offered by DRS TSI are:

SIN 246 35 2	ENSDKE @ \$0.88
SIN 246 40	H34-09202 @ \$5.57
SIN 246 42 1	PVC-MSC @ \$0.82
SIN 246 52 & 246 60 1	Junior Security Systems Specialist @ \$26.44 per hour
SIN 246 1000	Professional Services Engineer Remote Hourly Rate @ \$88.66

Contract Period: December 15, 2000 through 8 November 14, 2020

**PLEASE CALL DRS TECHNICAL SERVICES, INC. FOR  
COMPLETE PRODUCT INFORMATION AND CURRENT PRICES.**



**SIN 246 52 Professional Security/Facility Management Services and  
SIN 246 60 1 Security Systems Integration & Design Services**

<b>DRS TSI Law Enforcement/Security GSA Schedule 84: GS-07F-0073L</b>			
<b>Base &amp; 2<sup>nd</sup> Option Period of Performance: December 15, 2000 – 8<sup>th</sup> November 14, 2020</b>			
		<b>Hourly Government rates effective as of 11/29/2010</b>	
<b>SIN</b>	<b>Security Related Services</b>	<b>Customer Site</b>	<b>DRS TSI Site</b>
<b>246 52 &amp; 246 60 1</b>	<b>Labor Categories</b>	<b>GSA Rates</b>	<b>GSA Rates</b>
1a	Senior Program Manager	\$137.03	\$178.76
1b	Staff Program Manager	\$113.64	\$148.23
1c	Program Manger	\$77.91	\$101.60
1d	Project Manager	\$63.58	\$82.93
2a	Principal Systems Integrator/Developer	\$137.03	\$178.76
2b	Staff Systems Integrator/Developer	\$108.24	\$141.20
2c	Senior Systems Integrator/Developer	\$99.58	\$129.89
2d	Systems Integrator/Developer	\$82.22	\$107.26
2e	Junior Systems Integrator/Developer	\$63.95	\$83.41
3a	Principal Engineer	\$91.55	\$119.42
3b	Project Engineer	\$78.35	\$102.20
3c	Senior Engineer	\$65.23	\$85.06
3d	Engineer	\$54.81	\$71.49
3e	Junior Engineer	\$47.02	\$61.33
4a	Principal Systems/Logistics Analyst	\$108.69	\$141.76
4b	Project Systems/Logistics Analyst	\$78.56	\$102.49
4c	Senior Systems/Logistics Analyst	\$59.38	\$77.45
4d	Systems/Logistics Analyst	\$43.33	\$56.50
4e	Junior Systems/Logistics Analyst	\$30.86	\$40.24
5a	Principal Security Systems Analyst	\$98.81	\$98.81
5b	Staff Security Systems Analyst	\$86.52	\$86.52
5c	Senior Security Systems Analyst	\$74.27	\$74.27
5d	Security Systems Analyst	\$60.26	\$60.26
5e	Junior Security Systems Analyst	\$47.43	\$47.43
6a	Senior Network Manager	\$123.34	\$160.87
6b	Network Manager	\$95.59	\$124.68
6c	Senior Network Engineer	\$96.03	\$125.27
6d	Network Engineer	\$64.94	\$84.70

7a	Principal Security Programmer	\$100.45	\$131.03
7b	Staff Security Programmer	\$89.54	\$116.79
7c	Senior Security Programmer	\$73.79	\$96.24
7d	Security Programmer	\$52.68	\$68.72
7e	Junior Security Programmer	\$41.12	\$53.61
8a	Senior Technical Design Specialist	\$51.29	\$66.61
8b	Technical Design Specialist	\$46.49	\$60.64
8c	Junior Technical Design Specialist	\$29.65	\$38.51
8d	Principal Technical Specialist	\$59.38	\$77.43
8e	Senior Technical Specialist	\$44.40	\$57.92
8f	Technical Specialist	\$36.15	\$47.16
8g	Junior Technical Specialist	\$32.08	\$41.85
9	Technical Documentation Specialist	\$37.77	\$49.26
10	Technical Support Analyst	\$29.56	\$38.54
11	Graphics Support Analyst	\$40.87	\$53.08
12a	Senior Security Systems Specialist	\$45.69	\$59.33
12b	Security Systems Specialist	\$38.47	\$49.96
12c	Junior Security Systems Specialist	\$26.44	\$34.34
13a	Master Electrician	\$52.09	\$67.65
13b	Electrician	\$43.41	\$56.38
13c	Junior Electrician	\$34.73	\$45.10
14a	Senior Security Control Operator	\$51.29	\$66.61
14b	Security Control Operator - Team Leader	\$39.27	\$51.00
14c	Security Control Operator	\$35.26	\$45.79
15a	Senior Security Systems Administrator	\$63.31	\$82.22
15b	Security Systems Administrator	\$53.69	\$69.73
15c	Junior Security Systems Administrator	\$46.48	\$60.37
16	Program Analyst	\$48.08	\$62.45

**1c. Labor Category Descriptions**

# DRS Technical Services, Inc.

## GSA SCHEDULE 84 LABOR CATEGORY DESCRIPTIONS

### 1.a Senior Program Manager

**Minimum/General Experience:** This position requires a minimum of sixteen (16) years of progressive experience which includes: managing, directing, and implementing security<sup>1</sup> technology projects, demonstrated ability to provide guidance and direction for projects, proven expertise in the management and control of funds and resources, and demonstrated capability in managing multi-task contracts. Must possess extensive knowledge of engineering and management concepts, procedures and practices. General experience includes increasing responsibilities in information systems design and management; management of a diverse group of functional activities, subordinate groups of technical and administrative personnel; and management and control of funds and resources, and demonstrated capability in managing complex, multi-task commercial and government contracts.

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<sup>1</sup> In this document, the term *security* refers to any one or more of the following disciplines: physical security, information security, and operations security.

**Functional Responsibility:** Serves as the contractor's single contract manager, and shall be the contractor's authorized technical interface with the Government Contracting Officer (CO), Contracting Officer's Representatives (CORs), government management personnel, and customer agency representatives. Responsible for providing technical and managerial leadership of a major program in a specialized area of technology and for overall contract performance. Basic responsibilities include:

- Obtaining proper resources within and across organizational boundaries.
- Managing and tracking program, project or task finances.
- Developing subordinate program, project or task personnel.
- Providing appropriate technical and administrative management oversight to engineers, scientists, analysts, logisticians, technicians, support personnel, etc., engaged in one or more fields of expertise.
- Scheduling and allocating work, providing advice and guidance, and resolving problems to meet technical performance and financial objectives.
- Establishing performance and technical standards.
- Reviewing and evaluating work of staff and preparing periodic performance reports.
- Ensures the product quality and timeliness of efforts.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection

### 1.b Staff Program Manager

**Minimum/General Experience:** This position requires a minimum of fourteen (14) years of progressive experience which includes: managing, directing, and implementing security technology projects, demonstrated ability to provide guidance and direction for projects, proven expertise in the management and control of funds and resources, and demonstrated capability in managing multi-task contracts. Must possess extensive knowledge of engineering and management concepts, procedures and practices. General experience includes increasing responsibilities in information systems design and management; management of a diverse group of functional activities, subordinate groups of technical and administrative personnel; and management and control of funds and resources, and demonstrated capability in managing complex, multi-task commercial and government contracts.

**Functional Responsibility:** Serves as the contractor's single contract manager, and shall be the contractor's authorized technical interface with the Government Contracting Officer (CO), Contracting Officer's

Representatives (CORs), government management personnel, and customer agency representatives. Responsible for providing technical and managerial leadership of a major program in a specialized area of technology and for overall contract performance. Basic responsibilities include:

- Obtaining proper resources within and across organizational boundaries.
- Managing and tracking program, project or task finances.
- Developing subordinate program, project or task personnel.
- Providing appropriate technical and administrative management oversight to engineers, scientists, analysts, logisticians, technicians, support personnel, etc., engaged in one or more fields of expertise.
- Scheduling and allocating work, providing advice and guidance, and resolving problems to meet technical performance and financial objectives.
- Establishing performance and technical standards.
- Reviewing and evaluating work of staff and preparing periodic performance reports.
- Ensures the product quality and timeliness of efforts

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

### 1.c Program Manager

**Minimum/General Experience:** This position requires a minimum of twelve (12) years of progressive experience which includes: managing, directing, and implementing security technology projects, demonstrated ability to provide guidance and direction for projects, proven expertise in the management and control of funds and resources, and demonstrated capability in managing multi-task contracts. Must possess extensive knowledge of engineering and management concepts, procedures and practices. General experience includes increasing responsibilities in information systems design and management; management of a diverse group of functional activities, subordinate groups of technical and administrative personnel; and management and control of funds and resources, and demonstrated capability in managing complex, multi-task commercial and government contracts.

**Functional Responsibility:** Serves as the contractor's single contract manager, and shall be the contractor's authorized technical interface with the Government Contracting Officer (CO), Contracting Officer's Representatives (CORs), government management personnel, and customer agency representatives. Responsible for providing technical and managerial leadership of a major program in a specialized area of technology and for overall contract performance. Basic responsibilities include:

1. Ensuring appropriate staffing required for major programs, projects or tasks.
2. Managing and tracking program, project or task finances.
3. Developing subordinate program, project or task personnel.
4. Providing appropriate technical and administrative management oversight to engineers, scientists, analysts, logisticians, technicians, support personnel, etc., engaged in one or more fields of expertise.
5. Scheduling and allocating work, providing advice and guidance, and resolving problems to meet technical performance and financial objectives.
6. Developing new and refining existing process to enhance quality and productivity.
7. Reviewing and evaluating work of staff and preparing periodic performance reports.
8. Ensures the product quality and timeliness of efforts.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates

degree. An additional four years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

#### 1.d Project Manager

**Minimum/General Experience:** This position requires a minimum of ten (10) years of progressive experience which includes: managing, directing, and implementing security technology projects, demonstrated ability to provide technical direction for projects, proven expertise in the management and control of funds and resources, and demonstrated capability in managing contracts. Must possess extensive knowledge of engineering and management concepts, procedures and practices. General experience includes increasing responsibilities in information systems design and management; management of a diverse group of functional activities, subordinate groups of technical and administrative personnel; and management and control of funds and resources, and demonstrated capability in managing complex, multitask commercial and government contracts.

**Functional Responsibility:** Serves as a technical manager, and the contractor's authorized technical interface with the Contracting Officer's Representatives (CORs), government management personnel, and customer agency representatives. Responsible for providing technical and managerial leadership of a major program in a specialized area of technology and for overall task performance. Basic responsibilities include:

1. Ensuring appropriate staffing required for major programs, projects or tasks.
2. Managing and tracking program, project or task finances.
3. Developing subordinate program, project or task personnel.
4. Leading a program, project or task by outlining, assigning and coordinating work.
5. Scheduling and allocating work, providing advice and guidance, and resolving problems to meet technical performance and financial objectives.
6. Developing new and refining existing process to enhance quality and productivity.
7. Reviewing and evaluating work of staff and preparing periodic performance reports.
8. Ensures the product quality and timeliness of efforts.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

#### 2.a Principal Systems Integrator/Developer

**Minimum/General Experience:** This position requires a minimum of ten (10) years of experience. General experience may include: demonstrated capabilities with third and fourth generation security programming languages; web-based development tools; lifecycle management; object-oriented programming; structured security system development methodologies; ability to develop complex software to satisfy design objectives; structured analysis; software development for data base management systems; and/or information systems development or a relevant technical discipline. At least eight (8) years of specific experience in one or more of the following or related technical disciplines is required: data communications, network management, and

operational activities of a network; functional requirements analysis; computer security systems; quality assurance; data management; ADP engineering; enterprise- wide strategic systems planning; business information planning; and business analysis. Specific experience should include knowledge of Internet, client/server/mainframe environments, and demonstrated skill in managing/directing software development projects.

**Functional Responsibility:** **Directs** software development projects and the translation of design specifications into Web-based software applications. **Oversees** testing, debugging, and software refinements to produce the required product. **Directs** the preparation of required documentation, including both program-level and user-level documentation. **Creates** software architecture enhancements that reduce operating time or improve efficiency. **Develops** concepts to modify legacy software as well as develops the concept for special-purpose software to ensure efficiency and integrity between systems and applications. **Oversees** requirements for design, programming, documentation and implementation of software applications that requires knowledge of legacy information technology systems for effective development and deployment of software modules. **Directs** and **manages** in all phases of software development with emphasis on analysis, coding, testing, documentation, and acceptance phases. **Responsible** for identifying new and emerging technology to support strategic planning initiatives required to meet customer needs. **Directs** assessments, evaluations, selections, site surveys, requirements analysis and definition, technology prototyping, and cost analysis related to information technology.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, telecommunications, business or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Systems Engineering	Telecommunications	Electrical Engineering
Network Security	Network Modeling/Simulation	Enterprise Systems	Encryption Technology
Rapid Prototyping	Information Engineering	Systems Integration	Software Engineering

## 2.b Staff Systems Integrator/Developer

**Minimum/General Experience:** This position requires a minimum of six (6) years of experience. General experience may include: demonstrated capabilities with third and fourth generation security programming languages; web-based development tools; lifecycle management; object-oriented programming; structured security system development methodologies; ability to develop complex software to satisfy design objectives; structured analysis; software development for data base management systems; and/or information systems development or a relevant technical discipline. At least four (4) years of specific experience in one or more of the following or related technical disciplines is required: data communications, network management, and operational activities of a network; functional requirements analysis; computer security systems; quality assurance; data management; ADP engineering; enterprise- wide strategic systems planning; business information planning; and business analysis. Specific experience should include knowledge of Internet, client/server/mainframe environments, and demonstrated skill in managing/directing software development projects.

**Functional Responsibility:** **Manages** a software development project and the translation of design specifications into a Web-based software application. **Participates** in testing, debugging, and software refinements to produce the required product. **Supervises** the preparation of required documentation, including both program-level and user-level documentation. **Creates** software enhancements to reduce operating time or improve efficiency. **Leads** the modification of legacy software as well as develops the concept for special-purpose software to ensure efficiency and integrity between systems and applications. **Implements** the requirements for design, programming, documentation and implementation of software applications that requires knowledge of legacy information technology systems for effective development and deployment of software modules. **Manages** and **supervises** all phases of software development with emphasis on analysis, coding, testing, documentation, and acceptance phases. **Ensures** the application of new and emerging technology to support strategic planning initiatives required to meet customer needs. **Leads** assessments, evaluations, selections, site surveys, requirements analysis and definition, technology prototyping, and cost analysis related to information technology. **Organizes and manages the preparation of technical reports and documentation to record results.**

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, telecommunications, business or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the

minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Systems Engineering	Telecommunications	Electrical Engineering
Network Security	Network Modeling/Simulation	Enterprise Systems	Encryption Technology
Rapid Prototyping	Information Engineering	Systems Integration	Software Engineering

## 2.c Senior Systems Integrator/Developer

**Minimum/General Experience:** This position requires a minimum of eight (8) years of experience. General experience may include: demonstrated capabilities with third and fourth generation security programming languages; web-based development tools; lifecycle management; object-oriented programming; structured security system development methodologies; ability to develop complex software to satisfy design objectives; structured analysis; software development for data base management systems; and/or information systems development or a relevant technical discipline. At least six (6) years of specific experience in one or more of the following or related technical disciplines is required: data communications, network management, and operational activities of a network; functional requirements analysis; computer security systems; quality assurance; data management; ADP engineering; enterprise- wide strategic systems planning; business information planning; and business analysis. Specific experience should include knowledge of Internet, client/server/mainframe environments, and demonstrated skill in managing/directing software development projects.

**Functional Responsibility:** **Manages** software development projects and the translation of design specifications into Web-based software applications. **Oversees** testing, debugging, and software refinements to produce the required product. **Supervises** the preparation of required documentation, including both program-level and user-level documentation. **Manages** the software enhancements to reduce operating time or improve efficiency. **Leads** the modification of legacy software as well as develops the concept for special-purpose software to ensure efficiency and integrity between systems and applications. **Develops** requirements for design, programming, documentation and implementation of software applications that requires knowledge of legacy information technology systems for effective development and deployment of software modules. **Manages** and **leads** in all phases of software development with emphasis on analysis, coding, testing, documentation, and acceptance phases. **Responsible** for identifying new and emerging technology to support strategic planning initiatives required to meet customer needs. **Directs** assessments, evaluations, selections, site surveys, requirements analysis and definition, technology prototyping, and cost analysis related to information technology.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, telecommunications, business or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Systems Engineering	Telecommunications	Electrical Engineering
Network Security	Network Modeling/Simulation	Enterprise Systems	Encryption Technology
Rapid Prototyping	Information Engineering	Systems Integration	Software Engineering

## 2.d Systems Integrator/Developer

**Minimum/General Experience:** This position requires a minimum of four (4) years of experience. General experience may include: demonstrated capabilities with third and fourth generation security programming languages; web-based development tools; lifecycle management; object-oriented programming; structured security system development methodologies; ability to develop complex software to satisfy design objectives; structured analysis; software development for data base management systems; and/or information systems development or a relevant technical discipline. At least two (2) years of specific experience in one or more of the following or related technical disciplines is required: data communications, network management, and operational activities of a network; functional requirements analysis; computer security systems; quality assurance; data management; ADP engineering; enterprise- wide strategic systems planning; business information planning; and business analysis. Specific experience should include knowledge of Internet, client/server/mainframe environments, and demonstrated skill in managing/directing software development projects.

**Functional Responsibility:** **Supports** software development projects and the translation of design specifications into Web-based software applications. **Participates** in testing, debugging, and software refinements to produce the required product. **Prepares** required documentation, including both program- level and user-level documentation. **Prepares** the software enhancements to reduce operating time or improve efficiency. **Modifies** legacy software as well as **implements** the concept for special-purpose software to ensure efficiency and integrity between systems and applications. **Implements** the requirements for design, programming, documentation and implementation of software applications that requires knowledge of legacy information technology systems for effective development and deployment of software modules. **Participates** in all phases of software development with emphasis on analysis, coding, testing, documentation, and acceptance phases. **Supports** assessments, evaluations, selections, site surveys, requirements analysis and definition, technology prototyping, and cost analysis related to information technology. **Prepares technical reports and documentation to record results.**

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, telecommunications, business or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Systems Engineering	Telecommunications	Electrical Engineering
Network Security	Network Modeling/Simulation	Enterprise Systems	Encryption Technology
Rapid Prototyping	Information Engineering	Systems Integration	Software Engineering

## 2.e Jr. Systems Integrator/Developer

**Minimum/General Experience:** This position requires a minimum of two (2) years of experience. General experience may include: demonstrated capabilities with third and fourth generation security programming languages; web-based development tools; lifecycle management; object-oriented programming; structured security system development methodologies; ability to develop complex software to satisfy design objectives; structured analysis; software development for data base management systems; and/or information systems development or a relevant technical discipline. **Some specific experience** in one or more of the following or related technical disciplines is required: data communications, network management, and operational activities of a network; functional requirements analysis; computer security systems; quality assurance; data management; ADP engineering; enterprise-wide strategic systems planning; business information planning; and business analysis. Specific experience should include knowledge of Internet, client/server/mainframe environments, and demonstrated skill in managing/directing software development projects.

**Functional Responsibility:** **Participates** software development projects and creates design specifications for Web-based software applications. Conducts testing, performs debugging, and develops software refinements to produce the required product. **Creates** required documentation, including both program- level and user-level documentation. **Prepares** the software enhancements to reduce operating time or improve efficiency. Directs the modification of legacy software as well as develops the concept for special-purpose software to ensure efficiency and integrity between systems and applications. **Implements** the requirements for design, programming, documentation and implementation of software applications that requires knowledge of legacy information technology systems for effective development and deployment of software modules. **Participates** in all phases of software development with emphasis on analysis, coding, testing, documentation, and acceptance phases. **Conducts** assessments, evaluations, selections, site surveys, requirements analysis and definition, technology prototyping, and cost analysis related to information technology. **Prepares technical reports and documentation to record results.**

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, telecommunications, business or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Systems Engineering	Telecommunications	Electrical Engineering
Network Security	Network Modeling/Simulation	Enterprise Systems	Encryption Technology
Rapid Prototyping	Information Engineering	Systems Integration	Software Engineering

### 3.a Principal Engineer

**Minimum/General Experience:** This position requires a minimum of twelve (12) years experience, of which at least eight (8) years must be specialized. Specialized experience includes: establishment of system requirements; performance of systems engineering, trade studies, security engineering analyses, and system evaluations; development of system designs and technical specifications; and testing and evaluating systems for acceptance. Additional experience includes the use of automated design tools (such as Pro/ENGINEER, SolidWorks, etc.) to create and model system designs and processes, development of assembly/subassembly models, performance of simulations, and development of bill of materials (BOM) for system designs, and performance of hardware/software assessments. General experience includes development of system design databases; and demonstrated knowledge of security engineering and information systems throughout all life cycle phases. Must be capable of directing efforts of engineering team and focusing team efforts to meet system performance requirements.

**Functional Responsibility:** Applies engineering skills in the analysis, specification, development, integration, production, testing, and acquisition of systems, subsystems, or components. Evaluates and recommends commercial-off-the-shelf (COTS) applications, products, and methodologies that can provide interoperable, portable, and scaleable technology solutions. Analyzes reusable software or hardware components to determine if the components can be integrated into interoperable systems. Applies reverse engineering and reengineering disciplines to develop production planning and strategic migration documents. Ensures subsystem interoperability, system compatibility and overall compliance with open systems architecture standards. Analyzes system requirements and directs efforts to develop alternatives to satisfy those requirements. Provides technical leadership for developing solutions as part of engineering studies. Supports process improvement efforts by providing specific, high-level technical expertise. Performs evaluation of alternatives and assessment of risks and costs. Develops and refines new engineering techniques and processes to enhance quality and productivity. Establishes performance and technical standards as well as provides project oversight and approves project and testing specifications. Can provide management oversight and daily supervision of team personnel and/or lead/coordinate complex task/project teams.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

### 3.b Project Engineer

**Minimum/General Experience:** This position requires a minimum of eight (8) years experience, of which at least six (6) years must be specialized. Specialized experience includes: establishment of system requirements; performance of systems engineering, trade studies, engineering analyses, and system evaluations; development of system designs and technical specifications; and testing and evaluating systems for acceptance. Additional experience includes the use of automated design tools (such as Pro/ENGINEER, SolidWorks, etc.) to create and model system designs and processes, development of assembly/subassembly models, performance of simulations, and development of bill of materials (BOM) for system designs, and performance of hardware/software assessments. General experience includes demonstrated ability to communicate orally and in writing. Must be capable of leading and managing efforts of engineering team and focusing team efforts to meet system performance requirements.

**Functional Responsibility:** Applies engineering skills in the analysis, specification, development, integration, production, testing, and acquisition of systems, subsystems, or components. Evaluates and recommends commercial-off-the-shelf (COTS) applications, products, and methodologies that can provide interoperable, portable, and scaleable technology solutions. Establishes performance and technical standards and develop appropriate tests to assess, debug and validate system performance. Applies reverse engineering and reengineering disciplines to develop production planning and strategic migration documents. Ensures subsystem interoperability, system compatibility and overall compliance with open systems architecture standards. Analyzes system requirements and

directs efforts to develop alternatives to satisfy those requirements. Provides technical leadership for developing solutions as part of engineering studies. Performs evaluation of alternatives and assessment of risks and costs. Documents the results of complex analysis and design tasks. Establishes performance and technical standards as well as provides project oversight and approves project and testing specifications. Can provide management oversight and daily supervision of team personnel and/or lead/coordinate complex task/project teams.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

### 3.c Senior Engineer

**Minimum/General Experience:** This position requires a minimum of ten (10) years experience, of which at least eight (8) years must be specialized. Specialized experience includes: establishment of system requirements; performance of systems engineering, trade studies, security engineering analyses, and system evaluations; development of system designs and technical specifications; and testing and evaluating systems for acceptance. Additional experience includes the use of automated design tools (such as Pro/ENGINEER, SolidWorks, etc.) to create and model system designs and processes, development of assembly/subassembly models, performance of simulations, and development of bill of materials (BOM) for system designs, and performance of hardware/software assessments. General experience includes development of system design databases; and demonstrated knowledge of security engineering and information systems throughout all life cycle phases. Must be capable of directing efforts of engineering team and focusing team efforts to meet system performance requirements.

**Functional Responsibility:** Applies engineering skills in the analysis, specification, development, integration, production, testing, and acquisition of systems, subsystems, or components. Evaluates and recommends commercial-off-the-shelf (COTS) applications, products, and methodologies that can provide interoperable, portable, and scalable technology solutions. Analyzes reusable software or hardware components to determine if the components can be integrated into interoperable systems. Applies reverse engineering and reengineering disciplines to develop production planning and strategic migration documents. Ensures subsystem interoperability, system compatibility and overall compliance with open systems architecture standards. Analyzes system requirements and directs efforts to develop alternatives to satisfy those requirements. Provides technical leadership for developing solutions as part of engineering studies. Supports process improvement efforts by providing specific, high-level technical expertise. Performs evaluation of alternatives and assessment of risks and costs. Develops and refines new engineering techniques and processes to enhance quality and productivity. Establishes performance and technical standards as well as provides project oversight and approves project and testing specifications. Can provide management oversight and daily supervision of team personnel and/or lead/coordinate complex task/project teams.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

### 3.d Engineer

**Minimum/General Experience:** This position requires a minimum of four (4) years experience, of which at least two (2) years must be specialized. Specialized experience includes: establishment of system requirements; performance of systems engineering, trade studies, engineering analyses, and system evaluations; development of system designs and technical specifications; and testing and evaluating systems for acceptance. Additional experience includes the use of automated design tools (such as Pro/ENGINEER, SolidWorks, etc.) to create and model system designs and processes, development of assembly/subassembly models, performance of simulations, and development of bill of materials (BOM) for system designs, and performance of hardware/software assessments. General experience includes strong oral and written communication skills and possesses a solid knowledge of principles and practices involved in research, prototyping, engineering development, testing, evaluation, and production. Must possess strong organizational skills and strong interpersonal skills to understand organizational/customer requirements. May possess supervisory experience in managing engineers, programmers, and analysts.

**Functional Responsibility:** Applies engineering skills in the analysis, specification, development, integration, production, testing, and acquisition of systems, subsystems, or components. Evaluates and recommends commercial-off-the-shelf (COTS) applications, products, and methodologies that can provide interoperable, portable, and scalable technology solutions. Prepares electrical schematics, mechanical layouts, and wiring diagrams; develops design solutions, and prepares relevant procurement and design documentation. Implements performance and technical standards and conducts appropriate tests to assess, debug and validate system performance. Develops block diagrams and logic flow charts. Translates detailed design into prototype or production hardware/software. Prepares system operation/maintenance to user/operator-level documentation. Enhances software to reduce operating time or improved performance efficiency. Analyzes problems and develops system requirements and performance specifications. Creates performance measurements and conducts system assessments. Develops metadata describing hardware/software design and attribute descriptions. Assists in the management of projects including preparation/delivery of presentations. May design moderately complex systems. Prepares technical reports of work efforts. Under general supervision, performs various engineering or scientific assignments in the fields of research and development, test and evaluation, advanced development, production and deployment. Assists in developing standards and techniques. May assist as team lead and executes project/task coordination, management and engineering.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Marine Engineering	Logistics Management	Power Generation
Bridging Systems	Military Vehicle Systems	Modeling/Simulation	HVAC Systems
Rapid Prototyping	Signature Management	Systems Integration	Asset Protection
Information Systems	Access Control	Intrusion Detection	Video Badging

### 3.e Jr. Engineer

**Minimum/General Experience:** Recent college graduate in engineering, mathematics, physics, computer science and/or information systems development or a relevant technical discipline. Must possess specialized training in systems engineering, trade studies, engineering analyses, and system evaluations; must be capable of development of system designs and technical specifications; and conducting testing and evaluating systems for acceptance. Must be trainable in the use of automated design tools (such as Pro/ENGINEER, SolidWorks, etc.) to create and model system designs and processes.

**Functional Responsibility:** Works under close supervision, developing the requirements of a system or product from concept to fielding. Prepares electrical schematics, mechanical layouts, and wiring diagrams; develops design solutions, and prepares relevant procurement and design documentation. With appropriate oversight, develops required specifications for simple to moderately complex designs. Implements performance and technical standards and when directed, conducts appropriate tests to assess, debug and validate system performance. Develops block diagrams and logic flow charts. Translates detailed design into prototype or production hardware/software. Develops computer software possessing a wide range of capabilities, for both imbedded and non-embedded systems. Provides alternatives, recommendations, and assistance to managers and more senior

engineers involved in the research, development, integration, testing, and fielding systems. Assists in the management of projects including preparation/delivery of presentations. Prepares input to technical reports of work efforts. Under close supervision, performs various engineering or scientific assignments in the fields of research and development, test and evaluation, advanced development, production and deployment. Performs routine engineering or scientific assignments under immediate supervision and follows specific instructions as to working plans and methods. Responsible for the accuracy of tests, observations, measurements and computations in the design, construction, and testing required under a project.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Electronics	Industrial Engineering	Mechanical Engineering
Aeronautics	Information Systems	Systems Integration
Structural Design	Information Technology	Software Engineering
Production Layout	Petroleum Engineering	Stereo Lithography
Civil Engineering	Electrical Engineering	Aerospace Engineering
Asset Protection	Power Generation	

#### 4.a Principal Systems/Logistics Analyst

**Minimum/General Experience:** This position requires a minimum of fourteen (14) years experience, of which at least ten (10) years must be specialized. Specialized experience includes: computer programming, systems analyses and design knowledge as well as software design and database implementation; design/development of documentation of data requirements; and the application of management principles of Integrated Logistics Support (ILS) to ensure support resources are developed, acquired, tested, and deployed as an integral part of the system acquisition process to maintain system readiness. Specific work experience involves understanding the requirements for funding, manpower, materiel, facilities, and services needed for system support and correlating those requirements with program/project plans to assure that the needed support is provided at the right time and place. Must have experience in developing or performing system and logistics management operations that involve planning, coordinating, or evaluating the logistical actions required for system support and the integration of separate functions in planning or implementing logistics support. May have instructor platform time and experience in developing computer-based multimedia training material development. Position requires experience in directing the review and evaluation of new software/hardware and technical documentation for system enhancement, development of methodologies for evaluating complex tasks, conducting budget analysis, understanding resource limitations and the development of alternatives or "trade-offs," when necessary. Additional experience includes the development and analysis of data to determine logistic objectives and goals, identification of system support requirements, and establishment of the relationships between system support and the fielded systems. Specialized knowledge of some or all of the logistics analysis tasks:

- Trade Off studies to compare and analyze alternate support concepts.
- Level of Repair analysis to determine the optimum maintenance concept or repair versus discard decisions.
- Reliability Centered Maintenance analysis to create or verify scheduled maintenance programs.
- Operation and support cost studies to identify cost drivers and identify potential solutions.
- Logistics design review and improvement studies.
- Logistics Support Package Sustainment Package Tasks.
- Provisioning data, provisioning parts list (PPL) and pre-procurement screening.
- Engineering Data for Provisioning (EDFP)/Supplementary Provisioning Technical Documentation (SPTD).
- Design Change Notices (DCN).

Other experience includes application of program planning, funding, and management information systems; understanding organizations and functions of activities involved in providing logistical support; and coordinating/evaluating the efforts of functional specialists to identify logistics requirements and developing/adjusting plans and schedules for the actions needed to meet each requirement on time. General experience includes application of COTS software such as MS Office, databases, and multimedia software, the review/evaluation of new hardware peripherals (Jukeboxes, scanners, printers), programmer developed software, user's standard operating procedures for new software and hardware.

**Functional Responsibility:** Must assure that the most effective and economical means of support are planned and applied during all stages of the life cycle. Requires the application of ILS "elements" to systems and programs: (1) maintenance plan, (2) manpower and personnel, (3) supply support, (4) support and test equipment,

(5) training and training devices, (6) technical data, (7) computer resources support, (8) packaging, handling, storage, and transportation, and (9) facilities. Develops, revises, or selects training courses and provides oversight in and prepares training catalogs, courseware, multi-media, and lesson plans. Develops instructor materials, such as course outline, background material, and training aids as well as student materials, such as course manuals, workbooks, handouts, completion certificates, and course critique forms. Conducts formal classroom courses, workshops, seminars, and computer-based training. Directs the preparation of milestone status reports and deliverables/presentations to customers. Must provide logistical interface with technical specialists (e.g., engineers, supply and maintenance specialists, software developers, technical data experts, project managers, system planners, training specialists) and with contract personnel. Provides daily supervision and direction to support staff. Reviews and approves recommendations for approval of major systems installations. Responsible for planning and evaluating system and logistic readiness. Determines trends; deficiencies in the provision of spare parts, repair manuals, test equipment, and other necessary support items; deficiencies in manpower and training; and system performance capabilities. Coordinates with logistics functional specialists, planning offices, program/project management, and representatives of such support functions as manpower, training, and budget. Develops and analyzes policies, procedures, and regulatory requirements; evaluates impact on current support operations; and plans and coordinates changes and future actions with technical and program specialists and program/project managers.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Systems Integration	Industrial Engineering	Technical Documentation	Technical Manuals
Provisioning	Configuration Management	Information Systems	R&M Engineering
System Safety	Human Factors Engineering	Software Engineering	Data Management
Engineering	Project Control	Training/Training Systems	Industrial Management
Asset Protection	Program Management		

#### 4.b Project Systems/Logistics Analyst

**Minimum/General Experience:** This position requires a minimum of ten (10) years experience, of which at least six (6) years must be specialized. Specialized experience includes: computer programming, systems analyses and design knowledge as well as software design and database implementation; design/development of documentation of data requirements; and the application of management principles of Integrated Logistics Support (ILS) to ensure support resources are developed, acquired, tested, and deployed as an integral part of the system acquisition process to maintain system readiness. Specific work experience involves understanding the requirements for funding, manpower, materiel, facilities, and services needed for system support and correlating those requirements with program/project plans to assure that the needed support is provided at the right time and place. Must have experience in developing or performing system and logistics management operations that involve planning, coordinating, or evaluating the logistical actions required for system support and the integration of separate functions in planning or implementing logistics support. May have instructor platform time and experience in developing computer-based multimedia training material development. Position requires experience in directing the review and evaluation of new software/hardware and technical documentation for system enhancement, development of methodologies for evaluating complex tasks, conducting budget analysis, understanding resource limitations and the development of alternatives or "trade-offs," when necessary. Additional experience includes the development and analysis of data to determine logistic objectives and goals, identification of system support requirements, and establishment of the relationships between system support and the fielded systems. Specialized knowledge of some or all of the logistics analysis tasks:

- Trade Off studies to compare and analyze alternate support concepts.
- Level of Repair analysis to determine the optimum maintenance concept or repair versus discard decisions.
- Reliability Centered Maintenance analysis to create or verify scheduled maintenance programs.
- Operation and support cost studies to identify cost drivers and identify potential solutions.
- Logistics design review and improvement studies.
- Logistics Support Package Sustainment Package Tasks.
- Provisioning data, provisioning parts list (PPL) and pre-procurement screening.
- Engineering Data for Provisioning (EDFP)/Supplementary Provisioning Technical Documentation (SPTD).
- Design Change Notices (DCN).

Other experience includes application of program planning, funding, and management information systems; understanding organizations and functions of activities involved in providing logistical support; and coordinating/evaluating the efforts of functional specialists to identify logistics requirements and developing/adjusting plans and schedules for the actions needed to meet each requirement on time. General experience includes application of COTS software such as MS Office, databases, and multimedia software, the review/evaluation of new hardware peripherals (Jukeboxes, scanners, printers), programmer developed software, user's standard operating procedures for new software and hardware.

**Functional Responsibility:** Must assure that the most effective and economical means of support are planned and applied during all stages of the life cycle. Requires the application of ILS "elements" to systems and programs: (1) maintenance plan, (2) manpower and personnel, (3) supply support, (4) support and test equipment, (5) training and training devices, (6) technical data, (7) computer resources support, (8) packaging, handling, storage, and transportation, and (9) facilities. Develops, revises, or selects training courses and provides oversight and prepares training catalogs, courseware, multi-media, and lesson plans. Develops instructor materials, such as course outline, background material, and training aids as well as student materials, such as course manuals, workbooks, handouts, completion certificates, and course critique forms. Conducts formal classroom courses, workshops, seminars, and computer-based training. Directs the preparation of milestone status reports and deliverables/presentations to customers. Must provide logistical interface with technical specialists (e.g., engineers, supply and maintenance specialists, software developers, technical data experts, project managers, system planners, training specialists) and with contract personnel. Provides daily supervision and direction to support staff. Reviews and approves recommendations for approval of major systems installations. Responsible for planning and evaluating system and logistic readiness. Determines trends; deficiencies in the provision of spare parts, repair manuals, test equipment, and other necessary support items; deficiencies in manpower and training; and system performance capabilities. Coordinates with logistics functional specialists, planning offices, program/project management, and representatives of such support functions as manpower, training, and budget. Develops and analyzes policies, procedures, and regulatory requirements; evaluates impact on current support operations; and plans and coordinates changes and future actions with technical and program specialists and program/project managers.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Systems Integration	Industrial Engineering	Technical Documentation	Technical Manuals
Provisioning	Configuration Management	Information Systems	R&M Engineering
System Safety	Human Factors Engineering	Software Engineering	Data Management
Engineering	Project Control	Training/Training Systems	Industrial Management
Asset Protection	Program Management		

#### 4.c Senior Systems/Logistics Analyst

**Minimum/General Experience:** This position requires a minimum of twelve (12) years experience, of which at least ten (10) years must be specialized. Specialized experience includes: computer programming, systems analyses and design knowledge as well as software design and database implementation; design/development of documentation of data requirements; and the application of management principles of Integrated Logistics Support (ILS) to ensure support resources are developed, acquired, tested, and deployed as an integral part of the system acquisition process to maintain system readiness. Specific work experience involves understanding the requirements for funding, manpower, materiel, facilities, and services needed for system support and correlating those requirements with program/project plans to assure that the needed support is provided at the right time and place. Must have experience in developing or performing system and logistics management operations that involve planning, coordinating, or evaluating the logistical actions required for system support and the integration of separate functions in planning or implementing logistics support. May have instructor platform time and experience in developing computer-based multimedia training material development. Position requires experience in directing the review and evaluation of new software/hardware and technical documentation for system enhancement, development of methodologies for evaluating complex tasks, conducting budget analysis, understanding resource limitations and the development of alternatives or "trade-offs," when necessary. Additional experience includes the development and analysis of data to determine logistic objectives and goals, identification of system support

requirements, and establishment of the relationships between system support and the fielded systems. Specialized knowledge of some or all of the logistics analysis tasks:

- Trade Off studies to compare and analyze alternate support concepts.
- Level of Repair analysis to determine the optimum maintenance concept or repair versus discard decisions.
- Reliability Centered Maintenance analysis to create or verify scheduled maintenance programs.
- Operation and support cost studies to identify cost drivers and identify potential solutions.
- Logistics design review and improvement studies.
- Logistics Support Package Sustainment Package Tasks.
- Provisioning data, provisioning parts list (PPL) and pre-procurement screening.
- Engineering Data for Provisioning (EDFP)/Supplementary Provisioning Technical Documentation (SPTD).
- Design Change Notices (DCN).

Other experience includes application of program planning, funding, and management information systems; understanding organizations and functions of activities involved in providing logistical support; and coordinating/evaluating the efforts of functional specialists to identify logistics requirements and developing/adjusting plans and schedules for the actions needed to meet each requirement on time. General experience includes application of COTS software such as MS Office, databases, and multimedia software, the review/evaluation of new hardware peripherals (Jukeboxes, scanners, printers), programmer developed software, user's standard operating procedures for new software and hardware.

**Functional Responsibility:** Must assure that the most effective and economical means of support are planned and applied during all stages of the life cycle. Requires the application of ILS "elements" to systems and programs: (1) maintenance plan, (2) manpower and personnel, (3) supply support, (4) support and test equipment, (5) training and training devices, (6) technical data, (7) computer resources support, (8) packaging, handling, storage, and transportation, and (9) facilities. Develops, revises, or selects training courses and provides oversight and prepares training catalogs, courseware, multi-media, and lesson plans. Develops instructor materials, such as course outline, background material, and training aids as well as student materials, such as course manuals, workbooks, handouts, completion certificates, and course critique forms. Conducts formal classroom courses, workshops, seminars, and computer-based training. Directs the preparation of milestone status reports and deliverables/presentations to customers. Must provide logistical interface with technical specialists (e.g., engineers, supply and maintenance specialists, software developers, technical data experts, project managers, system planners, training specialists) and with contract personnel. Provides daily supervision and direction to support staff. Reviews and approves recommendations for approval of major systems installations. Responsible for planning and evaluating system and logistic readiness. Determines trends; deficiencies in the provision of spare parts, repair manuals, test equipment, and other necessary support items; deficiencies in manpower and training; and system performance capabilities. Coordinates with logistics functional specialists, planning offices, program/project management, and representatives of such support functions as manpower, training, and budget. Develops and analyzes policies, procedures, and regulatory requirements; evaluates impact on current support operations; and plans and coordinates changes and future actions with technical and program specialists and program/project managers.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Systems Integration	Industrial Engineering	Technical Documentation	Technical Manuals
Provisioning	Configuration Management	Information Systems	R&M Engineering
System Safety	Human Factors Engineering	Software Engineering	Data Management
Engineering	Project Control	Training/Training Systems	Industrial Management
Asset Protection	Program Management		

#### 4.d Systems/Logistics Analyst

**Minimum/General Experience:** This position requires a minimum of eight (8) years experience, of which at least four (4) years must be specialized. Specialized experience includes: computer programming, systems analyses and design knowledge as well as software design and database implementation; knowledge of program planning, funding, and management information systems, broad knowledge of organization and functions of

activities involved in providing logistical support, and coordination/evaluation of functional specialists to identify specific requirements and to develop and adjust plans and schedules for the actions needed to meet each requirement on time. Specific work experience involves understanding the requirements for funding, manpower, materiel, facilities, and services needed for system support and correlating those requirements with program/project plans to assure that the needed support is provided at the right time and place. Must have experience in developing or performing system and logistics management operations that involve planning, coordinating, or evaluating the logistical actions required for system support and the integration of separate functions in planning or implementing logistics support. May have instructor platform time and experience in developing computer-based multimedia training material development. Must have applied the management principles of Integrated Logistics Support (ILS) to ensure support resources are developed, acquired, tested, and deployed as an integral part of the system acquisition process to maintain system readiness. Position requires experience in the review and evaluation new software/hardware and technical documentation for system enhancement, development of methodologies for evaluating moderately complex tasks. Additional experience is required in understanding of system design process, developing/reviewing specifications, and preparation of maintenance and support requirements, especially during system acquisition. Specialized knowledge of some or all of the logistics analysis tasks:

- Trade Off studies to compare and analyze alternate support concepts.
- Level of Repair analysis to determine the optimum maintenance concept or repair versus discard decisions.
- Reliability Centered Maintenance analysis to create or verify scheduled maintenance programs.
- Operation and support cost studies to identify cost drivers and identify potential solutions.
- Logistics design review and improvement studies.
- Logistics Support Package Sustainment Package Tasks.
- Provisioning data, provisioning parts list (PPL) and pre-procurement screening.
- Engineering Data for Provisioning (EDFP)/Supplementary Provisioning Technical Documentation (SPTD).
- Design Change Notices (DCN).

General experience includes application of COTS software such as MS Office, data bases, and multimedia software, the review/evaluation of new hardware peripherals (Jukeboxes, scanners, printers), programmer developed software, user's standard operating procedures for new software and hardware.

**Functional Responsibility:** Must assure that the most effective and economical means of support are planned and applied during all stages of the life cycle. Requires the application of ILS "elements" to systems and programs: (1) maintenance plan, (2) manpower and personnel, (3) supply support, (4) support and test equipment, (5) training and training devices, (6) technical data, (7) computer resources support, (8) packaging, handling, storage, and transportation, and (9) facilities. Responsibilities include development of logistic concepts early in the life cycle, preparation of the ILS Plan, coordination of support deficiency resolution, and analysis of support effectiveness. Investigates problems and deficiencies and develops and coordinates corrective action plans. Prepares presentations, briefings, reports, analyses, and recommendations that assist in the formulation of decisions regarding long- and short-range logistics program planning and execution. Prepares training material to fit user requirements for all relevant applications. Makes recommendations, if needed, for approval of major systems installations. Compiles and analyzes data that describes such factors as the availability and state of system support process, system operation and maintenance personnel, training related to support systems, long- and short-range planning for system support, and responsiveness of numerous program and logistics functions in meeting support requirements. Can provide daily supervision and technical direction to staff. Prepares milestone status reports and deliverables/presentations to customers. Coordinates with appropriate levels to ensure problem solution and user satisfaction.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Systems Integration	Industrial Engineering	Technical Documentation	Technical Manuals
Provisioning	Configuration Management	Information Systems	R&M Engineering
System Safety	Human Factors Engineering	Software Engineering	Data Management
Engineering	Project Control	Training/Training Systems	Industrial Management
Asset Protection	Program Management		

#### 4.e Jr. Systems/Logistics Analyst

**Minimum/General Experience:** This position requires a minimum of four (4) years experience, of which at least two (2) years must be specialized. Specialized experience includes: computer programming, systems analyses and design knowledge as well as software design and database implementation; design/development of documentation of data requirements; and the application of management principles of Integrated Logistics Support (ILS) to ensure support resources are developed, acquired, tested, and deployed as an integral part of the system acquisition process to maintain system readiness. Position requires the ability to review and evaluate new software and hardware, and provide written technical documentation for system enhancement. Additional experience includes knowledge of some of the logistics analysis tasks:

- Trade Off studies to compare and analyze alternate support concepts.
- Level of Repair analysis to determine the optimum maintenance concept or repair versus discard decisions.
- Reliability Centered Maintenance analysis to create or verify scheduled maintenance programs.
- Operation and support cost studies to identify cost drivers and identify potential solutions.
- Logistics design review and improvement studies.
- Logistics Support Package Sustainment Package Tasks.
- Provisioning data, provisioning parts list (PPL) and pre-procurement screening.
- Engineering Data for Provisioning (EDFP)/Supplementary Provisioning Technical Documentation (SPTD).
- Design Change Notices (DCN).

Requires at least a practical knowledge of systems design, a familiarity with specifications, and an understanding of maintenance and support requirements, especially during system acquisition. General experience includes analysis of data to validate logistic objectives and goals, the identification of support requirements, and understand the relationship between system support and the fielded system. Must possess experience in the application of COTS software such as MS Office, data bases, and multimedia software.

**Functional Responsibility:** Assures that the most effective and economical means of support are planned and applied during all stages of the life cycle. Requires the application of ILS "elements" to systems and programs: (1) maintenance plan, (2) manpower and personnel, (3) supply support, (4) support and test equipment, (5) training and training devices, (6) technical data, (7) computer resources support, (8) packaging, handling, storage, and transportation, and (9) facilities. Responsibilities include assisting in the development of logistic concepts early in the life cycle, preparing input to the ILS Plan, resolving support deficiencies as directed, and conducting analysis of support effectiveness. Prepares system documentation and technical manuals. Assists in the development of training material to fit user requirements for all relevant applications. Develops lesson plans, hand-outs, cheat sheets and functional hands-on exercises of newly required or developed software and hardware that will meet the users' specific requirements. Assists in the preparation of milestone status reports and deliverables/presentations to customers.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, mathematics, physics or other related analytical, scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Systems Integration	Industrial Engineering	Technical Documentation	Technical Manuals
Provisioning	Configuration Management	Information Systems	R&M Engineering
System Safety	Human Factors Engineering	Software Engineering	Data Management
Engineering	Project Control	Training/Training Systems	Industrial Management
Asset Protection	Program Management		

#### 5.a Principal Security Systems Analyst

**Minimum/General Experience:** This labor category requires a minimum twelve (12) years experience which includes analysis and design of complex security systems, knowledge of security data base management systems, knowledge of programming, knowledge of current storage and retrieval methods, and demonstrated ability to formulate specifications for computer programmers to use in coding, testing, and debugging of computer programs. General experience includes increasing responsibilities in assignments of a technical nature. Must be capable of conversing with technical and managerial personnel to determine applicable programs, agency plans,

and other factors affecting systems design requirements. Prepares specifications, work statements and proposals. Possesses ability to work independently or under only general direction on complex application problems involving all phases of security systems analysis is required.

**Functional Responsibility:** Leads tasks related to the development of complex security systems. Responsible for the development and management of program plans. Supervises security systems analysis, systems design, programming, and testing. Provides technical and administrative direction for personnel performing software development tasks, and reviews work products for correctness, adherence to the design concept and to user standards, and progress in accordance with schedules. Prepares status reports and presentations on task performance to customers. Provides daily supervision and direction to support staff. Prepares and delivers presentations on security data base management systems concepts. Provides daily supervision and direction to support staff.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security systems, engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 5.b Staff Security Systems Analyst

**Minimum/General Experience:** This labor category requires a minimum of eight (8) years experience, which includes analysis, and design of security business applications on complex systems for large-scale computers, database management, use of programming language, and/or BMS. Knowledge of current storage and retrieval methods, and demonstrated ability to formulate specifications for computer programmers to use in coding, testing and debugging of computer programs. General experience includes increasing responsibilities in assignments of a technical nature. Proven ability to work independently or under only general direction on complex application problems involving all phases of systems analysis is required.

**Functional Responsibility:** Provides technical and administrative direction for personnel performing software development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, and for progress in accordance with schedules. Coordinates with appropriate levels to ensure problem solution and user satisfaction. Make recommendations, if needed, for approval of major systems installations. Prepares milestones status reports and deliveries/presentations on the system concept to colleagues, subordinates and end-user representatives. When required, provides daily supervision and direction to support staff.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 5.c Senior Security Systems Analyst

**Minimum/General Experience:** This labor category requires a minimum ten (10) years experience which includes analysis and design of complex security systems, knowledge of security data base management systems, knowledge of programming, knowledge of current storage and retrieval methods, and demonstrated ability to formulate specifications for computer programmers to use in coding, testing, and debugging of computer programs. General experience includes increasing responsibilities in assignments of a technical nature. Must be capable of conversing with technical and managerial personnel to determine applicable programs, agency plans, and other factors affecting systems design requirements. Prepares specifications, work statements and proposals. Possesses ability to work independently or under only general direction on complex application problems involving all phases of security systems analysis is required.

**Functional Responsibility:** Leads tasks related to the development of complex computer systems. Responsible for the development and management of program plans. Supervises systems analysis, systems design, programming, and testing. Provides technical and administrative direction for personnel performing software development tasks, and reviews work products for correctness, adherence to the design concept and to user standards, and progress in accordance with schedules. Prepares status reports and presentations on task

performance to customers. Provides daily supervision and direction to support staff. Prepares and delivers presentations on data base management systems concepts. Provides daily supervision and direction to support staff.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security systems, engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 5.d Security Systems Analyst

**Minimum/General Experience:** This labor category requires a minimum of six (6) years experience which includes analysis and design of security business applications on complex systems for large scale computers (including three years' experience in data base management concepts, use of programming languages and/or DBMS). Knowledge of appropriate storage and retrieval methods, one year of systems analysis experience designing technical applications on computer systems and demonstrating ability to formulate specifications for computer programmers to use in coding, testing and debugging computer programs. General experience includes increasing responsibilities in information systems design and management. Must demonstrate the ability to work independently or under only general direction on requirements that are moderately complex to analyze, plan, program and implement.

**Functional Responsibility:** Provides technical and administrative direction for personnel performing software development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, and for progress in accordance with schedules. Coordinates with appropriate levels to ensure problem solution and user satisfaction. Make recommendations, if needed, for approval of major systems installations. Prepares milestones status reports and deliveries/presentations on the system concept to colleagues, subordinates and end-user representatives. When required, provides daily supervision and direction to support staff.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 5.e Jr. Security Systems Analyst

**Minimum/General Experience:** This labor category requires a minimum of two (2) years experience which includes analysis and design of security business applications on complex systems for large scale computers (including experience in data base management concepts, use of programming languages and/or DBMS). Knowledge of appropriate storage and retrieval methods, systems analysis experience designing technical applications on computer systems and demonstrating ability to formulate specifications for computer programmers to use in coding, testing and debugging computer programs. General experience includes increasing responsibilities in information systems design and management. Must demonstrate the ability to work independently or under only general direction on requirements that are moderately complex to analyze, plan, program and implement.

**Functional Responsibility:** Analyzes and develops computer software, possessing a wide range of capabilities including numerous engineering, business and records management functions. Develops plans for automated information systems from project inception to conclusion. Analyzes user interfaces; maintains hardware and software performance tuning; analyzes workload and computer usage; maintains interfaces with outside systems; analyzes downtimes; and analyzes proposed system modifications, upgrades and new COTS. Analyzes the problem and the information to be processed. Defines the problem, and develops system requirements and program specifications, from which programmers prepare detailed flowcharts, programs and tests. Coordinates closely with programmers to ensure proper implementation of program and system specifications. Develops, in conjunction with functional users, system alternative solutions.

**Minimum Education:** The qualified individual shall have an Associates degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates

degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### **6.a. Senior Network Manager**

**Minimum/General Experience:** This labor category requires a minimum of eight (8) years experience that includes protocol analysis, communication network system design and maintenance, and knowledge of communication protocols such as TCP/IP, X.25, X.400, X.500. Must possess knowledge of devices such as bridges, routers and gateways. The specialized experience also includes supervision of operation and maintenance of communication network systems, which may be mainframe computer, minicomputer, or client/server-based computer network. General experience should include all aspects of communication networks planning, installation and support.

**Functional Responsibility:** Evaluates communication hardware and software, troubleshoots LAN/MAN/WAN and other network-related problems, and provides technical expertise for performance and configuration of networks. Performs general LAN/MAN/WAN administration, and provides technical leadership in the integration and testing of complex large-scale computer-integrated networks. Schedules computer system conversions and cut-overs. Oversees network control center. Supervises maintenance of systems. Coordinates with all responsible users and sites. Supervises staff.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### **6.b Network Manager**

**Minimum/General Experience:** This labor category requires a minimum of six (6) years experience that includes protocol analysis, communication network system design and maintenance, and knowledge of communication protocols such as TCP/IP, X.25, X.400, X.500. Must possess knowledge of devices such as bridges, routers and gateways. The specialized experience also includes supervision of operation and maintenance of communication network systems, which may be mainframe computer, minicomputer, or client/server-based computer network. General experience should include all aspects of communication networks planning, installation and support.

**Functional Responsibility:** Evaluates communication hardware and software, troubleshoots LAN/MAN/WAN and other network-related problems, and provides technical expertise for performance and configuration of networks. Performs general LAN/MAN/WAN administration, and provides technical leadership in the integration and testing of complex large-scale computer-integrated networks. Schedules computer system conversions and cut-overs. Oversees network control center. Supervises maintenance of systems. Coordinates with all responsible users and sites. Supervises staff.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### **6.c Senior Network Engineer**

**Minimum/General Experience:** This labor category requires a minimum of six (6) years experience in one of the following: communications software, communications hardware or network specialty. General experience includes all aspects of communication networks. Communications software specialized experience includes: developing, testing, installing and operating network and computer (host) communications software (e.g., access method and protocol software, application interfaces, transaction processors and emulators); and using and implementing communications standards. Communications hardware specialized experience includes: installing, testing and operating network and computer (host) communications equipment (e.g., switches, modems, controllers, terminals and multiplexers); using and implementing communications hardware and electrical standards; using communications hardware test and monitoring equipment; and analyzing the results. Network specialty specialized experience includes: designing, testing, installing, implementing and maintaining computer networks; using and implementing

network standards; identifying and solving problems, restart/recovery, additions, deletions and modifications of terminals, hosts, etc.; optimization of network costs; and performance and implementing accounting and charge-back systems. Must demonstrate the ability to work independently or under only general direction.

**Functional Responsibility:** Analyzes network characteristics (e.g., traffic, connect time, transmission speeds, packet sizes and throughput) and recommends procurement, removals and modifications to network components. Designs and optimizes network topologies and site configurations. Plans installations, transitions and cutover of network components and capabilities. Coordinates requirements with users and supplies.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 6.d Network Engineer

**Minimum/General Experience:** This labor category requires a minimum of four (4) years experience in one of the following: communications software, communications hardware or network specialty. General experience includes all aspects of communication networks. Communications software specialized experience includes: developing, testing, installing and operating network and computer (host) communications software (e.g., access method and protocol software, application interfaces, transaction processors and emulators); and using and implementing communications standards. Communications hardware specialized experience includes: installing, testing and operating network and computer (host) communications equipment (e.g., switches, modems, controllers, terminals and multiplexers); using and implementing communications hardware and electrical standards; using communications hardware test and monitoring equipment; and analyzing the results. Network specialty specialized experience includes: designing, testing, installing, implementing and maintaining computer networks; using and implementing network standards; identifying and solving problems, restart/recovery, additions, deletions and modifications of terminals, hosts, etc.; optimization of network costs; and performance and implementing accounting and charge-back systems. Must demonstrate the ability to work independently or under only general direction.

**Functional Responsibility:** Analyzes network characteristics (e.g., traffic, connect time, transmission speeds, packet sizes and throughput) and recommends procurement, removals and modifications to network components. Designs and optimizes network topologies and site configurations. Plans installations, transitions and cutover of network components and capabilities. Coordinates requirements with users and supplies.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 7.a Principal Security Programmer

**Minimum/General Experience:** This labor category requires a minimum of twelve (12) years experience. Experience includes: demonstrated experience with third and fourth generation programming languages, experience with object-oriented programming, ability to develop complex software to satisfy design objectives, and experience developing software for data base management systems. General experience includes knowledge of Internet working, client/server environments, and demonstrated experience supervising software development projects.

**Functional Responsibility:** Supervises software development projects. Develops logic flow charts and pseudo-code. Translates software specifications into software applications. Tests, debugs, and refines software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides daily supervision to staff members. Oversees computer programmers and reviews their work to create or maintain operating systems, communications software, data base management systems, compilers, assemblers, and utility programs. Modifies existing software as well as creates special-purpose software to ensure efficiency and integrity between systems and applications. Provides supervision to staff members.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### **7.b Staff Security Programmer**

**Minimum/General Experience:** This labor category requires a minimum of eight (8) years experience. Experience includes: demonstrated experience with third and fourth generation programming languages, experience with object-oriented programming, ability to develop complex software to satisfy design objectives, and experience developing software for data base management systems. General experience includes knowledge of Internet working, client/server environments, and demonstrated experience supervising software development projects.

**Functional Responsibility:** Supervises software development projects. Develops logic flow charts and pseudo-code. Translates software specifications into software applications. Tests, debugs, and refines software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides daily supervision to staff members. Oversees computer programmers and reviews their work to create or maintain operating systems, communications software, data base management systems, compilers, assemblers, and utility programs. Modifies existing software as well as creates special-purpose software to ensure efficiency and integrity between systems and applications. Provides supervision to staff members.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### **7.c Senior Security Programmer**

**Minimum/General Experience:** This labor category requires a minimum of ten (10) years experience. Experience includes: demonstrated experience with third and fourth generation programming languages, experience with object-oriented programming, ability to develop complex software to satisfy design objectives, and experience developing software for data base management systems. General experience includes knowledge of Internet working, client/server environments, and demonstrated experience supervising software development projects.

**Functional Responsibility:** Supervises software development projects. Develops logic flow charts and pseudo-code. Translates software specifications into software applications. Tests, debugs, and refines software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides daily supervision to staff members. Oversees computer programmers and reviews their work to create or maintain operating systems, communications software, data base management systems, compilers, assemblers, and utility programs. Modifies existing software as well as creates special-purpose software to ensure efficiency and integrity between systems and applications. Provides supervision to staff members.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### **7.d Security Programmer**

**Minimum/General Experience:** This labor category requires a minimum of six (6) years experience which includes experience as an applications programmer on data base management systems, knowledge of computer

equipment and ability to perform computer programming in order to develop complex software to satisfy design objectives. Demonstrated ability to work independently or under only general direction.

**Functional Responsibility:** Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flowcharts. Translates detailed design into computer software. Tests, debugs and refines computer software to produce the required product. Prepares required documentation, including both program and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers to ensure program deadlines are met.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 7.e Jr. Security Programmer

**Minimum/General Experience:** This labor category requires a minimum of four (4) years experience which includes experience as an applications programmer on data base management systems, knowledge of computer equipment and ability to perform computer programming in order to develop complex software to satisfy design objectives. Demonstrated ability to work independently or under only general direction.

**Functional Responsibility:** Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flowcharts. Translates detailed design into computer software. Tests, debugs and refines computer software to produce the required product. Prepares required documentation, including both program and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers to ensure program deadlines are met.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, security engineering, business, telecommunications or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 8.a Senior Technical Design Specialist

**Minimum/General Experience:** This labor category requires a minimum of six (6) years of progressively responsible experience in detailed security design/engineering activities related to equipment, product engineering and design projects. These activities could include site plans, riser diagrams, interface/interconnect drawings, equipment/product layouts, mechanical and electrical schematics, professional renderings and animations for promotions and marketing, LAN/network designs and custom hardware/network installations. At least two (2) years of the individual's experience shall include technical design activities related to in compliance with applicable commercial and Government standards. Must be knowledgeable, capable, and experienced in the use of computer-based drafting and design tools (such as AutoCAD).

**Functional Responsibility:** Performs complex security engineering design tasks, directs and develops virtual 3-D renderings and animations, provides design and drafting support using computer-based drafting and design tools with minimal engineering guidance. Assists the Technical Design Specialist and Jr. Technical Design Specialist in CAD. Provides guidance regarding compliance to Government drawing and configuration management standards, and direction on task design requirements related to equipment and systems. Responsible for ensuring compliance with delivery schedules, works closely with systems and design engineers, project leads and program managers and ensures adherence to quality assurance processes and procedures.

**Minimum Education:** Associates degree in a technical discipline. The minimum/general experience may be reduced by two (2) years for a Bachelor degree in a technical discipline. An additional two-(2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

## 8.b Technical Design Specialist

**Minimum/General Experience:** This labor category requires a minimum of four (4) years of progressively responsible experience in detailed security design/engineering activities related to equipment, product engineering and design projects. These activities could include site plans, riser diagrams, interface/interconnect drawings, equipment/product layouts, mechanical and electrical schematics, professional renderings and animations for promotions and marketing, LAN/network designs and custom hardware/network installations. At least two (2) years of the individual's experience shall include technical design activities related to in compliance with applicable commercial and Government standards. Must be knowledgeable, capable, and experienced in the use of computer-based drafting and design tools (such as AutoCAD).

**Functional Responsibility:** Performs security engineering design tasks, develops virtual 3-D renderings and animations, and provides design and drafting support using computer-based drafting and design tools with nominal engineering guidance. Takes direction from Sr. Technical Design Specialists and assists Jr. Technical Design Specialists in CAD. Ensures compliance to Government drawing and configuration management standards, and direction on task design requirements related to equipment and systems. Ensures compliance with delivery schedules, works closely with systems and design engineers, project leads and program managers and follows quality assurance processes and procedures.

**Minimum Education:** Associates degree in a technical discipline. The minimum/ general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

## 8.c Junior Technical Design Specialist

**Minimum/General Experience:** This labor category requires a minimum of two (2) years of progressively responsible experience in detailed security design/engineering activities related to equipment, product engineering and design projects. These activities could include site plans, riser diagrams, interface/interconnect drawings, equipment/product layouts, mechanical and electrical schematics, professional renderings and animations, LAN/network designs and custom hardware/network installations. Must be knowledgeable, capable, and experienced in the use of computer-based drafting and design tools (such as AutoCAD).

**Functional Responsibility:** Performs security engineering design tasks, prepares virtual 3-D renderings and animations and provides design and drafting support using computer-based drafting and design tools under engineering guidance. Takes direction from Sr. Technical Design Specialists and assists Jr. Technical Design Specialists in CAD. Seeks guidance from more senior technical design personnel to ensure compliance to Government drawing and configuration management standards, and following direction on task design requirements related to equipment and systems. Complies with delivery schedules, works with systems and design engineers, project leads and program managers and follows quality assurance processes and procedures.

**Minimum Education:** Diploma from a technical institution. The minimum/general experience may be reduced by two (2) years for an Associate degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for a Technical Diploma. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

## 8.d Principal Technical Specialist

**Minimum/General Experience:** This labor category requires a minimum eight (8) years of progressive experience in the supervision and support of technical projects in any combination of the following activities: implementing electrical and mechanical designs, system and component installation/integration, test planning and testing, operational troubleshooting, and operating general-purpose commercial and military-unique equipment. General experience must include increasing responsibilities in technical management and knowledge of electronic security technology.

**Functional Responsibility:** Plans and supervises the performance of technical work on projects. Works with minimal supervision and, plans and ensures the quality, schedule and cost compliance of the installation, operation, maintenance configuration, troubleshooting, and repairs of general-purpose commercial and military-unique systems. Leads the preparation of engineering plans and site installation technical design packages. Coordinates with the Program/Project managers, customers, and user representatives to ensure accurate solutions and user satisfaction on technical matters. Oversees and, when necessary, performs systems analysis and evaluation of hardware capabilities and configurations.

**Minimum Education:** The qualified individual shall have an Associate degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associate's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 8.e Senior Technical Specialist

**Minimum/General Experience:** This labor category requires a minimum eight (8) years of progressive experience in the supervision and support of technical projects in any combination of the following activities: implementing electrical and mechanical designs, system and component installation/integration, test planning and testing, operational troubleshooting, and operating general-purpose commercial and military-unique equipment. General experience must include increasing responsibilities in technical management and knowledge of electronic security technology.

**Functional Responsibility:** Supervises the performance of technical work on projects. Works with minimal supervision and, plans and ensures the quality, schedule and cost compliance of the installation, operation, maintenance configuration, troubleshooting, and repairs of general-purpose commercial and military-unique systems. Coordinates the preparation of engineering plans and site installation technical design packages. Interfaces with the Program/Project managers, customers, and user representatives to ensure accurate solutions and user satisfaction on technical matters. Oversees and, when necessary, performs systems analysis and evaluation of hardware capabilities and configurations.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree or an additional four (4) years of experience can be substituted for a Bachelor's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 8.f Technical Specialist

**Minimum/General Experience:** This labor category requires a minimum four (4) years of progressive experience in the execution and support of technical projects in any combination of the following activities: implementing electrical and mechanical designs, system and component installation/integration, test planning and testing, operational troubleshooting, and operating general-purpose commercial and military- unique equipment. General experience must include increasing responsibilities in technical management and knowledge of electronic security technology.

**Functional Responsibility:** Performs direct technical support to projects. Works under supervision of more senior technical specialists, ensures the quality of workmanship, adheres to schedules and complies with the requirements of the installation, operation, maintenance configuration, troubleshooting, and repairs of general-purpose commercial and military-unique systems. Prepares engineering plans and site installation technical design packages. Interfaces with the Program/Project managers, customers, and user representatives to ensure accurate solutions and user satisfaction on technical matters.

**Minimum Education:** The qualified individual shall have an Associate degree in computer science, information systems, security engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associate's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 8.g Junior Technical Specialist

**Minimum/General Experience:** This labor category requires a minimum two (2) years of experience performing semi-standardized or semi-prescribed assignments, requiring judgmental and problem-solving skills. Should have progressive experience in selecting or adapting standard procedures or equipment for technical problems in the installation, analysis, and design of systems and equipment. General experience must include knowledge of electronic security technology.

**Functional Responsibility:** Performs direct technical support to projects. Works under supervision of more senior technical specialists, ensures the quality of own workmanship, adheres to schedules and installs, operates, maintains configures, troubleshoots, and repairs general-purpose devices, components, software, and equipment. Implements engineering plans and site installation technical design packages. Receives initial instructions, equipment requirements and technical direction from supervisor or engineer; technical adequacy of work is reviewed upon completion.

**Minimum Education:** The qualified individual shall have an Associate degree in computer science, information systems, engineering, business, or other related scientific or technical discipline. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted for an Associate's degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

## 9. Technical Documentation Specialist

**Minimum/General Experience:** This labor category requires a minimum of four (4) years of experience in performing progressively more responsible tasks of technical typing/word processing, desktop preparation of graphics presentations, data entry and verification, or other office support. Typically required to work under close supervision and direction. The individual must be familiar with the operation of the following office equipment: personal computers (IBM Compatible), scanners/optical character readers, duplicating, and data fax.

**Functional Responsibility:** Prepares draft and final-form technical documents. Should be familiar with terminology specific to the assigned work and capable of typing at least 60 words per minute. Must be capable of typing technical narrative and data and transcribing audio to written text. Will be responsible for accurate spelling, proper grammar usage, proper format, and proofreading finished documents. Is expected to use various word processing equipment and software applications.

**Minimum Education:** Requires a high school diploma. The minimum/general experience may be reduced by two (2) years with an Associate degree in an English/journalism, business or in computer science or related study.

## 10. Technical Support Analyst

**Minimum/General Experience:** This labor category requires a minimum of four (4) years of experience in performing progressively more responsible tasks of technical typing/word processing, desktop preparation of graphics presentations, data entry and verification, or other office support. Typically required to work under close supervision and direction. The individual must be familiar with the operation of the following office equipment: personal computers (IBM Compatible), scanners/optical character readers, duplicating, and data fax.

**Functional Responsibility:** Prepares draft and final-form technical documents. Should be familiar with terminology specific to the assigned work and capable of typing at least 60 words per minute. Must be capable of typing technical narrative and data and transcribing audio to written text. Will be responsible for accurate spelling, proper grammar usage, proper format, and proofreading finished documents. Is expected to use various word processing equipment and software applications.

**Minimum Education:** Requires a high school diploma. The minimum/general experience may be reduced by two (2) years with an Associate degree in an English/journalism, business or in computer science or related study.

## 11. Graphics Support Analyst

**Minimum/General Experience:** This labor category requires a minimum of at least two (2) years progressively responsible experience in graphics and 3-D animation activities related to presentations, pamphlets, videos, brochures, marketing, promotional materials, or related products which require the inclusion of charts, graphs, viewgraphs, 35mm slides, illustrations, artwork, solid images, line figures, photographs, sketches and pictures as part of the finished product. Must be knowledgeable, capable, and experienced in the use of commercial word processing software, graphics and animation software, and desktop publishing systems.

**Functional Responsibility:** Performs artistic and technical work in design, illustration, and preparation of drawn, printed and photographed material for publication, professional renderings and animations for promotions and marketing, duplication, television broadcasting and other audio and visual presentations. Ensures compliance to Government and commercial graphics standards and with delivery schedules. Works with systems and design engineers, project and program managers. Develops and updates graphic presentations to improve the quality and

enhance the usability of reports, plans, and presentation documents. Responsible for integrating graphics generated with automated tools within customer documents. Follows quality assurance processes and procedures.

**Minimum Education:** Associates degree in graphics/fine arts is desired. The minimum/general experience may be reduced by two (2) years for a Bachelor degree in graphics/fine arts, television arts, communications, and associated disciplines. An additional two-(2) years of experience over and above the minimum/general requirement can be substituted for an Associates degree. Additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 12a. Sr. Security Systems Specialist

**Minimum/General Experience:** This position requires a minimum of ten (10) years demonstrated experience in tactical intelligence. Experience includes a working knowledge of strategic intelligence and the national intelligence community. Specific work experience includes a broad background in COMSEC, OPSEC and NISPOM, NISPOM Support, security testing to support Government requirements, Government Security Assessment Program (SAP) and industrial security that includes comprehensive experience in intelligence techniques and operations. General experience includes application of COTS software such as MS Office, data bases, and multimedia software.

**Functional Responsibility:** May guide employees in their performance of technical work on projects. Performs as a subject matter expert capable of performing complex, difficult time-critical management of a variety of work. Must possess the ability to apply facts and estimates derived from numerous sources and be able to resolve a variety of problems having different technical aspects.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Business	Industrial Technology	Technology Management	Industrial Management
English	Information Management	Management Information Systems	Political Science
Education	Public Administration	Program Management	Data Management

### 12b. Security Systems Specialist

**Minimum/General Experience:** This position requires a minimum of three (3) years demonstrated experience in tactical intelligence. Specialized experience includes a working knowledge of strategic intelligence and the national intelligence community. Specific work experience includes a broad background in COMSEC, OPSEC and NISPOM, NISPOM Support, security testing to support Government requirements, Government Security Assessment Program (SAP) and industrial security that includes comprehensive experience in intelligence techniques and operations. General experience includes application of COTS software such as MS Office, data bases, and multimedia software.

**Functional Responsibility:** Performs as a subject matter expert capable of performing complex, difficult time-critical analyses. Must possess the ability to apply facts and estimates derived from numerous sources to a variety of problems having different technical aspects.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Business	Industrial Technology	Technology Management	Industrial Management
English	Information Management	Management Information Systems	Political Science
Education	Public Administration	Program Management	Data Management

## 12c. Jr. Security Systems Specialist

**Minimum/General Experience:** This position requires a minimum of one (1) year demonstrated experience in tactical intelligence. Experience includes a working knowledge of strategic intelligence and the national intelligence community. Specific work experience includes a broad background in COMSEC, OPSEC and NISPOM, NISPOM Support, security testing to support Government requirements, Government Security Assessment Program (SAP) and industrial security that includes comprehensive experience in intelligence techniques and operations. General experience includes application of COTS software such as MS Office, data bases, and multimedia software.

**Functional Responsibility:** Works under supervision on time-critical analyses. With the assistance of higher level subordinates must possess the ability to understand facts and estimates derived from numerous sources and a variety of problems having different technical aspects.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities. Individuals shall have acquired the education and experience in one or more of the following areas of specialization:

Business	Industrial Technology	Technology Management	Industrial Management
English	Information Management	Management Information Systems	Political Science
Education	Public Administration	Program Management	Data Management

## 13a. Master Electrician

**Minimum/General Experience:** This position requires a minimum of five (5) years of experience. Experience may include repairing, installing, replacing and testing electrical circuits, equipment, and appliances. Uses hand tools and testing instruments. Inspects and tests electrical equipment, lighting, signal, communication, and power circuits. Isolates defects in wiring, switches, motors and other electrical equipment using testing instruments. Replaces faulty switches, sockets and other elements of electrical systems. Dismantles electrical machinery and replaces defective electrical or mechanical parts. Mounts motors, transformers and lighting fixtures into position and complete circuits according to diagram specifications.

**Functional Responsibility:** Applies electrical skills in the analysis, testing of systems, subsystems, or components. Evaluates and recommends solutions on very complex situations. May supervise lower level electricians.

**Minimum Education:** Most hold an electrician's license. Trade School or an additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

## 13b. Electrician

**Minimum/General Experience:** This position requires a minimum of three (3) years of experience. Experience may include repairing, installing, replacing and testing electrical circuits, equipment, and appliances. Uses hand tools and testing instruments. Inspects and tests electrical equipment, lighting, signal, communication, and power circuits. Isolates defects in wiring, switches, motors and other electrical equipment using testing instruments. Replaces faulty switches, sockets and other elements of electrical systems. Dismantles electrical machinery and replaces defective electrical or mechanical parts. Mounts motors, transformers and lighting fixtures into position and complete circuits according to diagram specifications.

**Functional Responsibility:** Applies electrical skills in the analysis, testing of systems, subsystems, or components. Evaluates and recommends solutions for moderately complex situations.

**Minimum Education:** Most hold an electrician's license. Trade School or an additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This

additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 13c. Jr. Electrician

**Minimum/General Experience:** This position requires a minimum of one (1) year of experience. Experience may include repairing, installing, replacing and testing electrical circuits, equipment, and appliances. Uses hand tools and testing instruments. Inspects and tests electrical equipment, lighting, signal, communication, and power circuits. Isolates defects in wiring, switches, motors and other electrical equipment using testing instruments. Replaces faulty switches, sockets and other elements of electrical systems. Dismantles electrical machinery and replaces defective electrical or mechanical parts. Mounts motors, transformers and lighting fixtures into position and complete circuits according to diagram specifications.

**Functional Responsibility:** Applies electrical skills in the analysis, testing of systems, subsystems, or components. May seek the advice/mentoring of more senior electricians for solutions to more complex issues.

**Minimum Education:** Most hold an electrician's license. Trade School or an additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 14a. Senior Security Control Operator

**Minimum/General Experience:** This position requires a minimum of four (4) years demonstrated experience in tactical intelligence. Serves as the Senior On-Site Alarm Monitor responsible for the implementation of appropriate data in both access control and intrusion detection systems to include definition of points, alarm and access schedules and access control privileges. Responsible for the training and supervision of other On-Site Operators and distribute data input tasks as appropriate. Maintains and updates policies, procedures, and online procedural files. Ensures good housekeeping practices are maintained for all security equipment. Validates that shift change alarm status verifications are conducted and records maintained. Ensures all proper notifications are made as required Standard Operation Instructions and General Orders.

**Functional Responsibility:** In absence of Alarm Operations Manager, can temporarily serve in this capacity. Works directly with PCC Shift Supervisors on all alarm monitoring issues/events to ensure proper notification/actions have been taken and documented appropriately.

**Minimum Education:** Associates degree or an additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 14b. Security Control Operator – Team Leader

**Minimum/General Experience:** This position requires a minimum of two (2) years demonstrated experience in tactical intelligence. Serves as the Team Leader On-Site Alarm Monitor responsible for the implementation of appropriate data in both access control and intrusion detection systems to include definition of points, alarm and access schedules and access control privileges. Responsible for the leading other On-Site Operators and distributing data input tasks as appropriate. Updates policies, procedures, and online procedural files. Ensures good housekeeping practices are maintained for all security equipment. Validates that shift change alarm status verifications are conducted and records maintained. Ensures all proper notifications are made as required Standard Operation Instructions and General Orders.

**Functional Responsibility:** Works directly with Shift Supervisors on all alarm monitoring issues/events to ensure proper notification/actions have been taken and documented appropriately.

**Minimum Education:** Associates degree or an additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 14c. Security Control Operator

**Minimum/General Experience:** This position requires a minimum of one (1) year of demonstrated experience in tactical intelligence. Responsible for monitoring microprocessor based electronic security systems to include the input and manipulation of data.

**Functional Responsibility:** Duties include monitoring and operating alarm, access control and video security systems, and performing clerical work.

**Minimum Education:** Associates degree or an additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 15a. Senior Security Systems Administrator

**Minimum/General Experience:** Position requires ten (10) years of Security Systems Administration. Coordinates and monitors highly sensitive aspects of the DoD, DoE or other industrial security program and other security activities, ensuring compliance with government and company security policies and procedures that are non-IT related.

**Functional Responsibility:** Typical security related issues may include physical access to buildings, room, couriers, clearances, packages, documentation and debriefings. Conducts highly sensitive security briefings. Coordinates all security education programs. Acts as primary liaison with upper management and outside agencies. May provide work leadership for lower level employees.

**Minimum Education:** The qualified individual shall have an Associate's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 15b. Security Systems Administrator

**Minimum/General Experience:** Position requires three (3) years of Security Systems Administration. Coordinates and monitors sensitive aspects of the DoD, DoE or other industrial security program, ensuring compliance with government and company security policies and procedures that are non-IT related. Typical security related issues may include physical access to buildings, room, couriers, clearances, packages, documentation and debriefings.

**Functional Responsibility:** Develops and implements security procedures in coordination with government agencies and management personnel. Monitors and conducts security briefings and security education programs. Investigates or oversees the investigation of losses and security violations and recommends corrective actions. Maintains liaison with outside agencies and keeps upper management informed of all security activities. Develops procedures and coordinates procedure manual revisions. May provide work leadership for lower level employees.

**Minimum Education:** The qualified individual shall have an Associate's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

#### 15c. Junior Security Systems Administrator

**Minimum/General Experience:** Position requires one (1) year of Security Systems Administration. Coordinates with employees and government agencies to prepare and publish Visit Access Letters (V ALs). Coordinates personnel security actions with employees and managers regarding background investigation

information. Reviews, prepares and processes requests for clearances. Tracks and reports on status of employees being processed for investigation. Administers initial briefings of cleared employees.

**Functional Responsibility:** Implements security policies and procedures as required by government agencies and in accordance with the company security policies. Administers the Visit Access Program for site location. Performs other related administrative duties as assigned.

**Minimum Education:** The qualified individual shall have an Associate's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Bachelor's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### 16a. Program Analyst

**Minimum/General Experience:** This position requires a minimum of five (5) years demonstrated experience as a Program Analyst. Develops plans, schedules and budgets to meet contractual requirements for a large portion of a program. Establishes moderately complex program plans and conducts in-depth research to define program requirements. Interfaces and coordinates with all levels of the customer, vendors and internal department (including deliverables, budgets and schedules). Develops various methods for tracking/reporting program statistics on various projects. Makes recommendations to management on changes to these projects as appropriate.

**Functional Responsibility:** Ability to independently accomplish moderately complex job requirements in support of a program or programs.

**Minimum Education:** The qualified individual shall have a Bachelor's degree in computer science, information systems, business, education or other related disciplines. The minimum/general experience may be reduced by two (2) years for a Master's degree in a technical discipline. An additional two (2) years of experience over and above the minimum/general requirement can be substituted with an Associates degree. An additional four (4) years experience can be substituted over and above the minimum/general requirement without a degree. This additional experience must be gained from a combination of education, training, or certification (technical diploma) that provides the requisite knowledge, skills, and abilities.

### CUSTOMER INFORMATION continued:

2. Maximum Order Limitation (MOL):

<b>SIN 246 35 2</b>	<b>\$100,000</b>
<b>SIN 246 40</b>	<b>\$100,000</b>
<b>SIN 246 42 1</b>	<b>\$150,000</b>
<b>SIN 246 52</b>	<b>\$200,000</b>
<b>SIN 246 60 1</b>	<b>\$200,000</b>
<b>SIN 246 50</b>	<b>\$150,000</b>

If the best value selection places your order over the Maximum Order threshold, you have an opportunity to obtain a better Schedule contract price. Before placing your order, contact the contractor for a better price. The contractor may (1) offer a new price for this requirement, (2) offer the lowest price available under this contract, or (3) decline the order. A delivery order that exceeds the MOL order may be placed under the Schedule contract in accordance with FAR 8.404.

3. Minimum Order: **\$100.00**

4. Geographic Coverage (delivery Area): **Worldwide**

5. Point(s) of Performance: **Same as company address**

Point(s) of Manufacture for products:

<b>AMAG Technology</b>	Torrance, CA
<b>ICx DAQ Electronics</b>	Piscataway, NJ
<b>IRIS ID (formerly LG Iris)</b>	Cranbury, NJ
<b>ELSA North America Law Enforcement Systems</b>	Madison, NC
<b>PROXIMEX</b>	Sunnyvale, CA

6. Discount from list prices or statement of net price: **All labor rates and product prices shown on GSA Advantage! are net GSA prices and include all negotiated discounts and the prevailing Industrial Funding Fee (IFF) of .75%. For a complete product listing, please contact the contractor.**

7. Quantity discounts: **None**

8. Prompt payment terms: **Net 30 Days**

- 9a. Notification that Government purchase cards are accepted at or below the micro-purchase threshold: **Yes**
- 9b. Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold: **Will accept over \$3,500 with no maximum limit**
10. Foreign items: **None**
- 11a. Time of delivery: **60 days ARO for products; as Specified on the Task Order for services**
- 11b. Expedited Delivery: **Contact Contractor**
- 11c. Overnight and 2-day Delivery: **Contact Contractor**
- 11d. Urgent Requirements: **Contact Contractor**
12. FOB point(s): **FOB Destination CONUS; FOB Origin all other locations**
- 13a. Ordering address: **Same as Contractor**
- 13b. Ordering procedures: **For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPAs) and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).**
14. Payment address: **DRS Technical Services, Inc.  
P.O. Box 503826  
Saint Louis, MO 63150**
- Depository Account Information / Electronic Funds Transfer (EFT):  
Account Number 3477105250  
ACH ABA Number 081000032  
Bank of America  
1455 Market Street  
San Francisco, CA 94013-1399**
15. Warranty provision: **Contractor's Standard Commercial Warranty (SCW)**
16. Export packing charges: **Not Applicable**
17. Terms and conditions of Government purchase card acceptance: **No maximum limit**
18. Terms and conditions of rental, maintenance, and repair: **Not Applicable**
19. Terms and conditions of installation: **Not Applicable**
20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices: **Not Applicable**
- 20a. Terms and conditions for any other services: **Not Applicable**
21. List of service and distribution points: **Same as company address**
22. List of participating dealers: **Not Applicable**
23. Preventive maintenance: **Not Applicable**
- 24a. Special & environmental attributes: **Not Applicable**
- 24b. Section 508 Compliance Standards: **Not Applicable**
25. Data Universal Number System (DUNS) number: **01-797-9027**
26. Contractor **is registered** in the System for Award Management (SAM)

