



**GSA  
Federal Supply Schedule  
Price List**

**For**

**Professional  
Engineering Services**

**Contract No. GS-23F-0183K**

**Price List Current Through**

**EPA Contract Mod PS-0031**

14 April 2014

***Boeing Service Company***

# GSA Federal Supply Service

## Authorized Federal Supply Schedule Price List

On-line 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!*<sup>TM</sup>, a menu-driven database system. The INTERNET address *GSA Advantage!*<sup>TM</sup> is: <http://www.gsaAdvantage.gov>.

### For Professional Engineering Services FSC 871

Contract Number: GS-23F-0183K

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at <http://www.fss.gsa.gov>.

Contract Period: April 7, 2000 – April 6, 2015

Program Management, Marketing and Task Order Business Operations:

308 Sentinel Drive, Suite 413  
Annapolis Junction, MD 20701  
Phone: (301) 623-0520/666-3001  
Fax: (301) 623-0524

Contract Administration:

3373 Breckinridge Boulevard  
Richardson, TX 75082-3511  
Phone: (972) 705-8120  
Fax: (972) 705-8193

Website: <http://www.boeing.com/assocproducts/gsacontract/index.htm>

Business Size: Large

**Note: Prices shown herein are Net (discount deducted)**

**Contract Mod PS-0031**



**Boeing Service Company**

### Change Record

<b>Date</b>	<b>Mod #</b>	<b>Page #(s)</b>	<b>Change</b>
4/21/00	0	All	Original Version
8/11/00	1	Pg 4	Payment Address
9/1/01	1	Inside cover	Added website address
3/16/01	2	Outside cover	Changed "Mod 1" to "Contract Mod #1"
3/16/01	2	Inside cover	Added Revision number and date
3/16/01	2	Pg 4	Revised "For Payment" address
4/19/01	3	Pgs 9-10	Gov't Site and Boeing Site Hourly Rates changes
12/5/01	4	Pgs 5, 9-10, 28-33	Added CAGE Code, Lab Cats
5/1/02	5	Pgs 9-10	Gov't Site and Boeing Site Hourly Rate Changes
10/1/02	5	Pg 2	Address and phone change
1/15/03	6 & 7	Outside cover Inside cover Pgs 2-5	Address and phone change
6/30/03	8	Pg 4	Ordering Address
6/30/03	8	Pgs 9-10	Gov't Site and Boeing Site Hourly Rate Changes
1/1/04	FX-03	Pgs 5	Updated CCR Information & CAGE Code Correction
1/1/04	FX-03	Pgs 9-10	Rate Change.
6/30/04	PA-0010 FX-04	Pgs 9-10	Gov't & Boeing Site Hourly Rate Changes
1/19/06	PS-015 FX-18	Outside Cover Inside Cover Pgs 2-4, 6, 8-24	Exercise of Contract Option 1, Extending POP; Labor Category & Rate Changes; CCR Valid Date.
7/19/06	PA-016 FX-18	Outside Cover Inside Cover Pgs 4, 9	Change of Scope from Domestic to Worldwide, and Economic Price Adjustment
7/11/08	PS-0019	Outside Cover Inside Cover Pgs 5-6, 9	Change of DUNS#, CAGE, Economic Price Adjustment
8/25/09	PS-0020	Outside Cover Inside Cover Pg 9	Economic Price Adjustment
5/21/2010	PS-0021	Inside Cover g 9	Will use EPA from PS-0020 for Contract Option 2; as well as labor category descriptions
5/21/2010	PS-0022	Outside Cover Inside Cover Pg 8	Exercise of Contract Option 2, extending POP to April 6, 2015
8/30/2010	PS-0024	Outside Cover Inside Cover Pgs 2, 5, 9	Economic Price Adjustment, phone and payment address updates.
7/27/2011	PS-0026	Outside Cover, Header, Pgs 2,3,9	Economic Price Adjustment
10/15/12	-	Pg 2	Revise Address & Phone in MD
4/14/2014	PS-0031	Outside Cover, Inside Cover, Pgs 2,4,8,9	Economic Price Adjustment, Max Order Value now \$1M, Added SCA Applicability Statement

**CUSTOMER INFORMATION**

	<b>Description</b>	<b>Price</b>
	<b><u>Page</u></b>	<b><u>Page</u></b>
1a. <b>Awarded Special Item Numbers (SINs)</b>		
SIN 871-1: Strategic Planning for Technology Programs.....	12.....	9
SIN 871-2: Concept Development & Requirement Analysis.....	12.....	9
SIN 871-3: Systems Design, Engineering and Integration.....	13.....	9
SIN 871-4: Test and Evaluation.....	13.....	9
SIN 871-5: Integrated Logistics Support.....	13.....	9
SIN 871-6: Acquisition and Lifecycle Management.....	14.....	9

1b. **Lowest Price Model Number** – (Not Applicable)

1c. **Description of All Corresponding Job Titles, Experience, Functional Responsibility and Education** – See Labor Category Descriptions on page 15.

2. **Maximum order** – There is no maximum task order size for the contract. A maximum threshold value of \$1,000,000 for a task order was established for the contract. When task orders exceed this value, agencies should seek additional discounts from the contractor. Task orders exceeding \$1,000,000 will be placed under this contract in accordance with PES-1-FSS-125. The maximum order value of \$1,000,000 applies to all SINs. See Note 1.

3. **Minimum order** - \$100

4. **Geographic coverage (delivery area)** - This contract was established to be used as sources for Professional Engineering Services as described in the Statement of Work for worldwide delivery.

5. **Point(s) of production (city, county, and state or foreign country)** – Determined by individual task order.

6. **Discount from list prices or statement of net price** – To be negotiated at the task order level.

7. **Quantity discounts** – Such discounts will be negotiated at the task order level.

8. **Prompt payment terms** – Not applicable.

9a. **Notification that Government purchase cards are accepted below the micropurchase threshold of \$3,000.**- Government purchase cards are accepted below the micropurchase threshold of \$3,000.

9b. **Notification whether Government purchase cards are accepted or not accepted above the micropurchase threshold** - Accepted.

10. **Foreign Items** – None.

11a. **Time of Delivery** – As required by individual task order.

11b. **Expedited Delivery** – Items available for expedited delivery are noted in this pricelist.

11c. **Overnight and 2-Day Delivery** – Not applicable.

- 11d. **Urgent Requirements** – See contract clause I-FSS-14-B. Agencies can contact the Boeing contract administration representative for the purpose of obtaining accelerated delivery.
12. **F.O.B. point(s)** – Destination.
- 13a. **Ordering address(es):**
  - Boeing Service Company
  - 3373 Breckinridge Boulevard
  - Richardson, TX 75082-3511
- 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](http://fss.gsa.gov/schedules)).
14. **Payment Address:**
  - Boeing Service Company
  - 3373 Breckinridge Boulevard
  - Richardson, TX 75082-3511
15. **Warranty Provision** – Not applicable.
16. **Export packing charges, if applicable** – Not applicable.
17. **Terms and conditions of Government purchase card acceptance (any thresholds above the micropurchase level)** – Not applicable.
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** – Not applicable.
- 20a. **Terms and conditions for any other services** – can be found in the latest refresh of the GSA PES Solicitation located at <http://www.eps.gov/spg/GSA/FSS/FCX/FCXB-B2-990001-B/SynopsisP.html> or perform a search for Solicitation # FCXB-B2-990001-B at [www.eps.gov](http://www.eps.gov).
21. **List of service and distribution points** – Not applicable.
22. **List of participating dealers** – Not applicable.
23. **Preventative maintenance** – Not applicable.
- 24a. **Special attributes such as environmental attributes** – Not applicable.
- 24b. **Section 508 compliance** – Not applicable
25. **Data Universal Number System (DUNS) number** – DUNS 07-487-5162

26. **Notification regarding registration in Central Contractor Registration (CCR) database:**

- Registered
- Applicable address:
  - Boeing Service Company
  - 3373 Breckinridge Boulevard
  - Richardson, TX 75082-3511
- Tax ID Number: 75-1416411
- CAGE Code: 54669

NOTE 1: PES-1-FSS-125 Requirements Exceeding The Maximum Order (Oct 1997)

- (a) In accordance with FAR 8.404, before placing an order that exceeds the maximum order threshold, ordering offices shall-
- (1) Based upon the initial evaluation, generally seek price reductions from the schedule contractors) appearing to provide the best value (considering price and other factors); and
  - (2) After price reductions have been sought, place the order with the schedule contractor that provides the best value and results in the lowest overall cost alternative (see FAR 8.404 (a)). If further price reductions are not offered, an order may still be placed, if the ordering office determines that it is appropriate.
- (b) Vendors may:
- (1) offer a new lower price for this requirement (the Price Reduction clause is not applicable to orders placed over the maximum order in PES-52.216-19, Order Limitations.
  - (2) offer the lowest price available under the contract; or
  - (3) decline the order (orders must be returned in accordance with PES-52.216-19).
- (c) A delivery order that exceeds the maximum order may be placed with the Contractor selected in accordance with FAR 8.404. The order will be placed under the contract.
- (d) Sales for orders that exceed the Maximum Order shall be reported in accordance with GSAR 552.238-72.

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## **1.0 Contract Overview**

### **1.1 About the Contract**

Boeing was awarded GSA PES Contract No. GS-23F-0183 on April 7, 2000, with a base contract period running through March 31, 2005. Contract Option 2 has been awarded which extends the contract until April 6, 2015.

The PES contract allows Boeing to provide all resources including personnel, management, supplies, services, materials, equipment, facilities and transportation necessary to provide a wide range of professional engineering services as specified in each task order.

Services specified in a task order may be performed at Boeing's facilities or the ordering agencies' facilities. The Government determines the contractor's task order type at task initiation, selecting from firm-fixed price for services with or without incentives, labor hours or time-and-materials. Each task uses the labor categories and the competitive, pre-negotiated ceiling rates in the contract.

Boeing's GSA PES schedule provides for services to be performed under two Primary Engineering Disciplines (PEDs), with hundreds of associated sub-disciplines or specialties. The schedule provides for services that span the engineering lifecycle, as represented by six Special Item Numbers (SINs) in the contract. The SINs are in a phased format, each representing a major lifecycle portion of an engineering requirement.

### **1.2 Use of the Contract**

This schedule contract is available for use by all federal government agencies for domestic use only. Specifically, this contract may be used as a source for Professional Engineering Services by the following: Executive agencies; other Federal agencies, mixed-ownership Government corporations, and the District of Columbia; Government contractors authorized in writing by a Federal agency pursuant to 48 CFR 51.1; and other activities and organizations authorized by statute or regulation to use GSA as a source of supply. Additionally, orders received from activities within the Executive Branch of the Federal Government may be accepted under this contract.

### **1.3 Summary of Labor Categories & Prices [see page 9]**

**SCA APPLICABILITY STATEMENT:** The Service Contract Act (SCA) is applicable to this contract as it applies to the entire Professional Engineering Services (PES) schedule and all services provided. While no specific labor categories have been identified as being subject to SCA due to exemptions for professional employees (FAR 22.1101, 22.1102 and 29 CFR 541.300), this contract still maintains the provisions and protections for SCA eligible labor categories. If and/or when the contractor adds SCA labor categories/employees to the contract through the modification process, the contractor must inform the contracting officer and establish an ACA matrix identifying the GSA labor category titles, the occupational code, SCA labor category titles and the applicable WD number. Failure to do so may result in cancellation of the contract.

**BOEING GSA Professional Engineering Services  
Revised Price List - April 2014**

	<b>Labor Category</b>	<b>Government Site Hourly Rate</b>	<b>Boeing Site Hourly Rate</b>
	<b><u>Program/Project Management</u></b>		
1	Program Manager	\$ 206.11	\$ 221.93
2	Senior Project Manager	\$ 147.10	\$ 158.41
3	Project Manager	\$ 117.19	\$ 126.19
	<b><u>Engineering</u></b>		
11	Consulting Engineer	\$ 204.53	\$ 220.23
12	Principal Engineer	\$ 145.98	\$ 157.19
13	Senior Engineer	\$ 118.96	\$ 128.08
14	Intermediate Engineer/Field Service Eng.	\$ 97.30	\$ 104.56
15	Engineer / Field Service Engineer	\$ 79.95	\$ 86.07
16	Assistant Engineer/Field Service Eng.	\$ 70.84	\$ 76.29
	<b><u>Engineering Support</u></b>		
21	Principal Engineering Support Staff	\$ 128.48	\$ 138.45
22	Senior Engineering Support Staff	\$ 99.25	\$ 106.89
23	Intermediate Engineering Support Staff	\$ 82.83	\$ 89.20
24	Engineering Support Staff	\$ 63.38	\$ 68.26
25	Associate Engineering Support Staff	\$ 57.96	\$ 62.41
26	Assistant Engineering Support Staff	\$ 44.03	\$ 47.42
	<b><u>Logistics</u></b>		
31	Logistics/Govt. Property Manager	\$ 89.15	\$ 95.98
32	Logistics/Govt. Property Coordinator	\$ 62.13	\$ 66.89
	<b><u>Discipline Technicians</u></b>		
41	Engineer Technician	\$ 63.38	\$ 68.26
42	Safety Specialist	\$ 70.07	\$ 75.46
43	Quality Specialist	\$ 62.13	\$ 66.89
44	Electronics Technician	\$ 57.96	\$ 62.41
	<b><u>Subject Matter Expertise</u></b>		
51	Subject Matter Expert V	\$ -	\$ 421.84
52	Subject Matter Expert IV	\$ -	\$ 370.73
53	Subject Matter Expert III	\$ -	\$ 318.22
54	Subject Matter Expert II	\$ -	\$ 275.63
55	Subject Matter Expert I	\$ -	\$ 242.23
	<b><u>Business Operations</u></b>		
61	Business Manager	\$ 114.54	\$ 123.32
62	Contracts Specialist	\$ 93.32	\$ 100.48
63	Subcontract Administrator	\$ 73.62	\$ 79.27
64	Program Planning and Control	\$ 69.47	\$ 74.79

## 2.0 Contract Work Scope

### 2.1 PED Descriptions

Boeing's GSA PES schedule provides for services to be performed under three Primary Engineering Disciplines (PEDs), each of which is described below:

C

#### 2.1.1 Electrical Engineering PED:

Planning, design, development, evaluation and operation of electrical principles, models and processes.

This PED includes, but is not limited to, the design, fabrication, measurement and operation of electrical devices, equipment and systems (e.g., signal processing; telecommunication; sensors, microwave, and image processing; micro-fabrication; energy systems and control; micro- and nano-electronics; plasma processing; laser and photonics; satellites, missiles and guidance systems, space vehicles, fiber optics, robotics, etc).

Within the electrical engineering discipline there are several specialties within the scope of this work. A partial listing is as follows:

- Aerospace and Electronic Systems
- Circuits and Systems
- Computer\*
- Dielectrics and Electrical Insulation
- Geoscience & Remote Sensing
- Information Theory
- Lasers & Electro-Optics
- Nuclear and Plasma Sciences
- Power Electronics
- Reliability
- Solid-State Circuits
- Vehicular Technology
- Antennas and Propagation
- Communications
- Consumer Electronics
- Education
- Engineering Management
- Industrial Electronics
- Intelligent Transportation Systems
- Magnetics
- Neural Networks Council
- Power Engineering
- Robotics & Automation
- Systems, Man, and Cybernetics
- Broadcast Technology
- Components Packaging, and Manufacturing Technology
- Control Systems
- Electromagnetic Compatibility
- Engineering in Medicine and Biology
- Industry Applications
- Instrumentation and Measurement
- Microwave Theory and Techniques
- Oceanic Engineering
- Professional Communication

- Signal Processing on Social Implications of Technology
- Ultrasonics, Ferroelectrics, and Frequency Control
- Other Electrical Engineering Specialties not listed in the “Services not Included Paragraph”

### 2.1.2 Mechanical Engineering PED:

Planning, development, evaluation and control of systems and components involving the production and transfer of energy and with the conversion of one form of energy to another.

This PED includes, but is not limited to, planning and evaluation of power plants, analysis of the economical combustion of fuels, conversion of heat energy into mechanical energy, use of mechanical energy to perform useful work, analysis of structures and motion in mechanical systems, and conversion of raw materials into a final product, etc. (e.g., thermodynamics, mechanics, fluid mechanics, jets, rocket engines, internal combustion engines, steam and gas turbines, continuum mechanics, dynamic systems, dynamics fluid mechanics, heat transfer, manufacturing, materials, solid mechanics, reactors, etc.).

Within the mechanical engineering discipline there are several specialties within the scope of this work. A partial listing is as follows:

- ASME Heat Transfer/K16
- Applied Mechanics
- Dynamic Systems and Control
- Fluids Power Systems and Technology Systems
- Information Storage and Processing Systems
- Materials
- Management
- Nuclear Engineering
- Offshore Mechanics and Arctic Engineering
- Power
- Advanced Energy Systems
- Bioengineering
- Electrical and Electronic Packaging
- Fuels and Combustion Technologies
- Internal Combustion Engine
- Manufacturing Engineering \*
- Materials Handling Engineering\*
- Non-Destructive Evaluation Engineering
- Petroleum
- Pressure Vessels and Piping
- Aerospace Engineering
- Design Engineering\*
- Fluids Engineering
- Heat Transfer
- International Gas Turbine
- Microchannel flow and heat transfer
- Noise Control and Acoustics
- Ocean Engineering
- Plant Engineering and Maintenance
- Process Industries

- Rail Transportation
- Safety Engineering and Risk Analysis
- Solar Energy
- Technology and Society
- Textile Engineering
- Tyribology
- Other Mechanical Engineering Specialties not listed in the “Services not Included Paragraph”

## 2.2 SIN Descriptions

Boeing’s GSA PES schedule provides for services that span the entire engineering lifecycle, as represented by six Special Item Numbers (SINs) in the contract. The SINs are in a phased format, each representing a major lifecycle portion of an engineering requirement.

### 2.2.1 SIN 871-1: Strategic Planning for Technology Programs/Activities

Services required under this SIN involve the definition and interpretation of high-level organizational engineering performance requirements such as projects, systems, missions, etc., and the objectives and approaches to their achievement. Typical associated tasks include, but are not limited to an analysis of mission, program goals and objectives, requirements analysis, organizational performance assessment, special studies and analysis, training, privatization and outsourcing.

Example: The evaluation and preliminary definition of new and/or improved performance goals for navigation satellites – such as launch procedures and costs, multi-user capability, useful

Inappropriate use of this SIN is providing professional engineering services not specifically related to strategic planning for technology programs/activities and its associated disciplines.

### 2.2.2 SIN 871-2: Concept Development and Requirements Analysis

Services required under this SIN involve abstract or concept studies and analysis, requirements definition, preliminary planning, the evaluation of alternative technical approaches and associated costs for the development or enhancement of high level general performance specifications of a system, project, mission or activity. Typical associated tasks include, but are not limited to requirements analysis, cost/cost-performance trade-off analysis, feasibility analysis, regulatory compliance support, technology conceptual designs, training, privatization and outsourcing.

Example: The development and analysis of the total mission profile and life cycle of the improved satellite including examination of performance and cost tradeoffs.

Inappropriate use of this SIN is providing professional engineering services not specifically related to concept development and requirements analysis and its associated disciplines.

### **2.2.3 SIN 871-3: System Design, Engineering and Integration**

Services required under this SIN involve the translation of a system (or subsystem, program, project, activity) concept into a preliminary and detailed design (engineering plans and specifications), performing risk identification/analysis/mitigation, traceability, and then integrating the various components to produce a working prototype or model of the system. Typical associated tasks include, but are not limited to computer-aided design, design studies and analysis, high level detailed specification preparation, configuration management and document control, fabrication, assembly and simulation, modeling, training, privatization and outsourcing.

Example: The navigation satellite concept produced in the preceding stage will be converted to a detailed engineering design package, performance will be computer simulated and a working model will be built for testing and design verification.

Inappropriate use of this SIN is providing professional engineering services not specifically related to concept development and requirements analysis and its associated disciplines.

### **2.2.4 SIN 871-4: Test and Evaluation**

Services required under this SIN involves the application of various techniques demonstrating that a prototype system (subsystem, program, project or activity) performs in accordance with the objectives outlined in the original design. Typical associated tasks include, but are not limited testing of a prototype and first article(s) testing, environmental testing, independent verification and validation, reverse engineering, simulation and modeling (to test the feasibility of a concept), system safety, quality assurance, physical testing of the product or system, training, privatization and outsourcing.

Example: The navigation satellite working model will be subjected to a series of tests which may simulate and ultimately duplicate its operational environment.

Inappropriate use of this SIN is providing professional engineering services not specifically related to testing and evaluating and its associated disciplines.

### **2.2.5 SIN 871-5: Integrated Logistics Support**

Services required under this SIN involves the analysis, planning and detailed design of all engineering specific logistics support including material goods, personnel, and operational maintenance and repair of systems throughout their life cycles. Typical associated tasks include, but are not limited to ergonomic/human performance analysis, feasibility analysis, logistics planning, requirements determination, policy standards/procedures development, long-term reliability and maintainability, training, privatization and outsourcing.

Example: The full range of life cycle logistics support for the navigation satellite will be identified and designed in this stage including training, operation and maintenance requirements, and replacement procedures.

Inappropriate use of this SIN is providing professional engineering services not specifically related to integrated logistics support and its associated disciplines.

### 2.2.6 SIN 871-6: Acquisition and Life Cycle Management

Services required under this SIN involve all of the planning, budgetary, contract and systems/program management functions required to procure and/or produce, render operational and provide life cycle support (maintenance, repair, supplies, engineering specific logistics) to technology-based systems, activities, subsystems, projects, etc. Typical associated tasks include, but are not limited to operation and maintenance, program/project management, technology transfer/insertion, training, privatization and outsourcing.

Example: During this stage the actual manufacturing, launch, and performance monitoring of the navigation satellite will be assisted through project management, configuration management, reliability analysis, engineering retrofit improvements and similar functions.

Inappropriate use of this SIN is professional engineering services not specifically related to acquisition and life cycle management and associated disciplines.

### 2.3 Matrix of PEDs/SINs Approved for Boeing

<b>Boeing's GSA PES Schedule – Available SINs</b>			
<b>SIN No.</b>	<b>SIN Title</b>	<b>Electrical Engineering</b>	<b>Mechanical Engineering</b>
<b>SIN 871-1</b>	<b>Strategic Planning and Technology Programs/Activities</b>	<b>Approved</b>	<b>Approved</b>
<b>SIN 871-2</b>	<b>Concept Development and Requirements Analysis</b>	<b>Approved</b>	<b>Approved</b>
<b>SIN 871-3</b>	<b>Systems Design, Engineering and Integration</b>	<b>Approved</b>	<b>Approved</b>
<b>SIN 871-4</b>	<b>Test and Evaluation</b>	<b>Approved</b>	<b>Approved</b>
<b>SIN 871-5</b>	<b>Integrated Logistics Support</b>	<b>Approved</b>	<b>Approved</b>
<b>SIN 871-6</b>	<b>Acquisition and Life Cycle Management</b>	<b>Approved</b>	<b>Approved</b>

### **3.0 Labor Category Descriptions**

#### **GSA PES Schedule Labor Category Descriptions**

##### **1. Program Manager**

Functional Description: Provides management over all aspects of a business area. Directs and manages internal/external communications and all functional program activities to meet contract cost, schedule and performance objectives. Makes final decisions on administrative or operational matters affecting more than one segment or functional activity of the program.

Minimum Experience: This position typically requires twenty years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent related experience.

##### **2. Senior Project Manager**

Functional Description: Provides planning, direction, and coordination functions of a designated project to ensure contract performance requirements and objectives are accomplished. Directs activities of personnel at a specific facility. Responsible for setting and attaining budget, schedule, and performance standards. Monitors and controls expenditures within limitations of project budget.

Minimum Experience: This position typically requires fifteen years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent related experience.

##### **3. Project Manager**

Functional Description: Provides planning, direction, and coordination functions of a designated project to ensure contract performance requirements and objectives are accomplished. Directs activities of personnel at a specific facility. Responsible for setting and attaining budget, schedule, and performance standards. Monitors and controls expenditures within limitations of project budget.

Minimum Experience: This position typically requires ten years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent related experience.

##### **11. Consulting Engineer**

Functional Description: Possesses unique experience, skills, and expert knowledge in highly specialized technical, functional, and/or process areas within the engineering discipline or across engineering disciplines. Provides leadership for engineering of systems, system elements, interfacing systems, components, devices and/or processes. Applies best industry practices and standards, leading-edge technology, and innovative solutions to intractable problems. Works

directly with customer management to apply advanced principles, theories, and concepts and develops comprehensive solutions to complex problems. Defines key concepts for planning, deployment, integration, operation and/or enhancement of state-of-the-art and/or legacy systems. Employs methodologies for guiding others in problem resolution. Develops insightful solutions to meet fiscal, technological and schedule constraints.

Minimum Experience: This position typically requires twenty years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

## **12. Principal Engineer**

Functional Description: Provides leadership and direction for engineering of systems, system elements, interfacing systems, components, devices and/or processes. Possesses extensive managerial, technical and/or business knowledge. Provides leadership and in solving complex problems. Develops strategic and implementation plans. Develops system architecture and design including software, hardware, communications and interface requirements. Leads in definition, trade-off and design activities. Prepares, reviews, and evaluates documentation, specifications, test plans and procedures. Conducts analysis to define, analyze and allocate requirements. Oversees test programs. Leads analysis of requirements to ensure intended functionality, operation and performance requirements are achieved. May provide daily supervision and direction to staff.

Minimum Experience: This position typically requires eighteen years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

## **13. Senior Engineer**

Functional Description: Provides discipline-specific or system-specific engineering support on systems, system elements, interfacing systems, components, devices and/or processes. Possesses in-depth technical and theoretical knowledge in specific discipline. Works independently or on a team and solves engineering-related problems. Supports entire system life cycle. Develops system architecture and design including software, hardware, communications and interface requirements. Leads definition, trade-off and design activities. Prepares, reviews, and evaluates system documentation, specifications, test plans and procedures. Conducts analysis to define, analyze and allocate requirements. Supports test programs and analyzes testing. Conducts analysis of requirements and components and performs audits to ensure functionality, operations and performance requirements are achieved. May provide daily supervision and direction to staff.

Minimum Experience: This position typically requires thirteen years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

#### **14. Intermediate Engineer/Field Service Engineer**

Functional Description: Provides engineering support on systems, system elements, interfacing systems, components, devices and/or processes. Possesses broad knowledge of industry practices, standards and technology areas. Works as a member of a team and assists with solving complex problems in an engineering discipline. Develops strategic and implementation plans. Contributes to system architecture and design including software, hardware, communications and interface requirements. Provides definition, trade-off and design support. Reviews, evaluates, and analyzes designs. Prepares, reviews, and evaluates documentation, specifications, test plans and procedures. Performs analysis to define, analyze and allocate requirements. Supports test programs and analyzes testing. Performs analysis of requirements and components and performs audits to ensure intended functionality and performance is achieved. Conducts installation and maintenance of systems/equipment, and provides associated training to customer personnel. Diagnoses, isolates, and corrects problems to component level to restore system's functions.

Minimum Experience: This position typically requires eight years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

#### **15. Engineer/Field Service Engineer**

Functional Description: Provides engineering support on systems, system elements, and/or interfacing systems, components, devices and/or processes. Possesses general working knowledge of industry practices, standards and technology areas. Works under general supervision, follows established procedures, and solves routine problems in the engineering discipline. Applies engineering disciplines to support design, development, implementation and operation activities. Assists in definition, trade-off and design activity. Reviews, evaluates, and analyzes designs. Prepares, reviews, and evaluates documentation, specifications, test plans and procedures. Assists in definition, analysis and allocation of requirements. Supports test programs and analyzes testing. Conducts analysis of requirements and components and supports audits conducted to ensure intended functionality and performance is achieved. Conducts installation and maintenance of systems/equipment, and provides associated training to customer personnel. Diagnoses, isolates, and corrects problems to component level to restore system's functions.

Minimum Experience: This position typically requires four years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

**16. Assistant Engineer/Field Service Engineer**

Functional Description: Provides engineering support on systems, system elements, and/or interfacing systems, components, devices and/or processes. Possesses basic knowledge of industry practices, standards and technology areas. Works under close supervision and assists with solving routine problems in an engineering discipline. Assists in definition, trade-off and design activity. Reviews, evaluates, and analyzes design interfaces. Prepares, reviews, and evaluates interface documentation, specifications, test plans and procedures. Assists in definition, analysis and allocation of requirements. Supports test programs and analyzes testing. Conducts installation and maintenance of systems/equipment, and provides associated training to customer personnel. Diagnoses, isolates, and corrects problems to component level to restore system's functions.

Minimum Experience: This position typically requires some related experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

**21. Principal Engineering Support Staff**

Functional Description: Plans and coordinates scheduling activities involving systems, projects or tasks. Analyzes interdependencies between related projects. Develops work breakdown structures. Performs business and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. May perform configuration management functions and other engineering support functions. Produces management plans, technical documents, and presentation graphics. Integrates graphics. Organizes, maintains and uses project library. May provide daily supervision and direction to staff.

Minimum Experience: This position typically requires ten years of experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Business, Management, Engineering or other related field. See Note, page 24.

**22. Senior Engineering Support Staff**

Functional Description: Plans and coordinates scheduling activities involving systems, projects or tasks. Analyzes interdependencies between related projects. Develops work breakdown structures. Supports business and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. Performs configuration management functions and other engineering support functions. Produces management plans, technical documents, and presentation graphics. Integrates graphics. Organizes, maintains and uses project library.

Minimum Experience: This position typically requires ten years of experience. See Note, page 24.

Minimum Education: Associate's degree or equivalent in Business, Management, Engineering or other related field. See Note, page 24.

**23. Intermediate Engineering Support Staff**

Functional Description: Assists in the planning and coordination of scheduling activities. Works with scheduling tools. Supports business and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. Assists in the production of management plans, technical documents, and produces presentation graphics. Performs configuration management functions and other engineering support duties. Assists in organization, maintenance and use of project library. May provide office administration support.

Minimum Experience: This position typically requires six years of experience. See Note, page 24.

Minimum Education: Associate's degree or equivalent in Business, Management, Engineering or other related field. See Note, page 24.

**24. Engineering Support Staff**

Functional Description: Assists in the planning and coordination of scheduling activities. Works with scheduling tools. Supports business and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. Assists in the production of management plans, technical documents, and produces presentation graphics. Performs configuration management functions and other engineering support duties. Assists in organization, maintenance and use of project library. May provide office administration support.

Minimum Experience: This position typically requires two years of experience. See Note, page 24.

Minimum Education: Associate's degree or equivalent in Business, Management, Engineering or other related field. See Note, page 24.

**25. Associate Engineering Support Staff**

Functional Description: Assists in the planning and coordination of scheduling activities. Works with scheduling. Supports business and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. Assists in the production of management plans, technical documents, and produces presentation graphics. Performs configuration management functions and other engineering support duties. Assists in organization, maintenance and use of project library. May provide office administration support and perform data entry functions.

Minimum Experience: This position typically requires one year of experience. See Note, page 24.

Minimum Education: Associate's degree or equivalent in Business, Management, Engineering or other related field. See Note, page 24.

**26. Assistant Engineering Support Staff**

Functional Description: Performs administrative and document support duties. Assists in the production of plans, technical documents, and presentation graphics. Gathers and arranges technical information. Assists in organization and maintenance of project library. Provides office administration support, maintains files, prepares correspondence, updates schedules and coordinates travel. Performs data entry functions and verifies data entered.

Minimum Experience: This position typically requires one year of experience. See Note, page 24.

Minimum Education: Associate's degree. See Note, page 24.

**31. Logistics/Government Property Manager**

Functional Description: Supervises logistics personnel performing requisitioning, receiving, storing, inventorying, and issuing materials.

Minimum Experience: This position typically requires ten years of related experience. See Note, page 24.

Minimum Education: Bachelors degree or equivalent in business or other related field. See Note, page 24.

**32. Logistics/Government Property Coordinator**

Functional Description: Performs planning, scheduling, and coordination for the movement of materials and equipment to support logistics requirements at a remote or overseas facility. Interfaces without vendors for procurement, shipping specifics, tracking, and delivery of parts and equipment. Maintains a government Secure Facilities Property Control System, or similar systems, to satisfy customer requirements.

Minimum Experience: This position typically requires two years of logistics/government property experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in a business related field. See Note, page 24.

**41. Engineering Technician**

Functional Description: Provides technical support of two or more electronics systems to meet customer requirements and standards. Conducts installation and maintenance of systems/equipment, and provides associated training to customer personnel. Diagnoses, isolates, and corrects problems to component level to restore system's functions.

Minimum Experience: This position typically requires five years of experience. See Note, page 24.

Minimum Education: Associates Degree or equivalent in a technical field. See Note, page 24.

**42. Safety Specialist**

Functional Description: Develops and manages employee safety, occupational health, environmental protection and worker compensation programs. Develops and manages environmental programs covering handling, emission, storage, disposal of potential pollutants to ensure compliance with applicable federal, state and local laws and regulations.

Minimum Experience: This position typically requires some related experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent related experience. See Note, page 24.

**43. Quality Specialist**

Functional Description: Establishes and maintains the quality system, including International Organization Standard (ISO) requirements. Performs quality system document control and internal audits to ensure that the quality system is complete and effective.

Minimum Experience: This position typically requires some related experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent related experience. See Note, page 24.

**44. Electronics Technician**

Functional Description: Provides technical expertise to maintain/solve problems on complex systems/equipment. Interprets manufactures reference and technical manuals. Performs preventive/corrective maintenance and quality control analysis. Conducts preventive and corrective maintenance of all antenna components. Provides technical supervision and training to lower level technicians. Systems may include but are not limited to electronic systems/equipment electromagnetic radiation (RF) spectrum communications systems; HF/MF/LF/VLF transmit/receive antennas and tower structures.

Minimum Experience: This position typically requires at least one year of experience. See Note, page 24.

Minimum Education: Associate's degree or equivalent in a technical related field and knowledge of OSHA general safety standards and the proper care and usage of Personal Protective Equipment (PPE).

**51. Subject Matter Expert V**

Functional Description: Acknowledged at the industry level in a technical field or highly specialized engineering or technology area and is an authority in relevant engineering principles and practices. Applies experience, skills, and/or expert knowledge within an engineering sub discipline to broad, complex assignments. Generates revolutionary concepts as evidenced by synthesis of new products or processes. Creates or uses powerful tools to develop solutions for technical engineering or scientific problems. Utilizes and develops tools, techniques, processes and/or facilities such as state-of-the-art simulation environments, laboratories, and test facilities. Provides leadership and technical direction for engineering activities in a specialized engineering

discipline or technology subject area. Recognized at the industry level as a major contributor to the technical planning process and for providing technical management and guidance.

Minimum Experience: This position typically requires at least sixteen years of experience in functional areas such those described above. See Note, page 24.

Minimum Education: PhD or equivalent in Engineering, Science or other related field. See Note, page 24.

## **52. Subject Matter Expert IV**

Functional Description: Recognized at the industry level in a technical field or highly specialized engineering or technology area and is proficient in relevant engineering principles and practices. Applies experience, skills, and/or expert knowledge within an engineering sub discipline to broad, complex assignments. Generates revolutionary concepts as evidenced by synthesis of new products or processes. Creates or uses powerful tools to develop solutions for technical engineering or scientific problems. Utilizes and develops tools, techniques, processes and/or facilities such as state-of-the-art simulation environments, laboratories, and test facilities. Provides leadership and technical direction for engineering activities in a specialized engineering discipline or technology subject area. Recognized at the industry level as a major contributor to the technical planning process and for providing technical management and guidance.

Minimum Experience: This position typically requires fourteen years of experience in functional areas such those described above. See Note, page 24.

Minimum Education: PhD or equivalent in Engineering, Science or other related field. See Note, page 24.

## **53. Subject Matter Expert III**

Functional Description: Recognized at the industry level in a technical field or specialized engineering or technology area and is proficient in relevant engineering principles and practices. Applies experience, skills, and expert knowledge within an engineering discipline to complex assignments. Generates unique concepts as evidenced by synthesis of new products or processes. Creates or uses engineering/scientific tools to solve technical problems. Utilizes and develops tools, techniques, processes and/or facilities such as state-of-the-art simulation environments, laboratories, and test facilities. Provides leadership for engineering activities in a specialized engineering or technology subject area. Serves as a major contributor to technical planning process and for providing technical management and guidance.

Minimum Experience: This position typically requires eleven years of experience in functional areas such those described above. See Note, page 24.

Minimum Education: Masters or equivalent in Engineering, Science, or other related field. See Note, page 24.

**54. Subject Matter Expert II**

Functional Description: Recognized for technical knowledge and judgement in a technical field with proficiency in relevant engineering principals and practices as required for technically complex assignments. Develops solutions to difficult problems. Generates concepts as evidenced by product or process improvement. Uses engineering/scientific tools to integrate requirements and solve technical problems. Utilizes tools, techniques, processes and/or facilities such as state-of-the-art simulation environments, laboratories, and test facilities. Leads engineering team activities in a specialized engineering or technology subject area. Contributes to the technical planning process and provides technical guidance.

Minimum Experience: This position typically requires eight years of experience in functional areas such those described above. See Note, page 24.

Minimum Education: Bachelors degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

**55. Subject Matter Expert I**

Functional Description: Applies knowledge in a technical field with proficiency in relevant engineering principals and practices. Implements solutions to difficult problems. Generates concepts as evidenced by product or process improvement. Uses engineering/scientific tools to integrate requirements and solve technical problems. Utilizes tools, techniques, processes and/or facilities such as state-of-the-art simulation environments, laboratories, and test facilities. Participates in engineering team activities in a specialized engineering or technology subject area. Contributes to the technical planning process and provides technical guidance.

Minimum Experience: This position typically requires four years of experience in functional areas such those described above. See Note, page 24.

Minimum Education: Bachelors degree or equivalent in Engineering, Science, or other related field. See Note, page 24.

**Business Operations:****61. Business Manager**

Functional Description: Organizes, directs, and controls the activities associated with the preparation, negotiation, administration, and pricing of contracts and subcontracts; program cost and schedule performance reporting, budgeting, and asset management.

Minimum Experience: This position typically requires six years of related experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in business or other related field. See Note, page 24.

**62. Contracts Specialist**

Functional Description: Reviews incoming customer requests for proposals, identifies proposal requirements, reviews terms and conditions for acceptability, coordinates proposal development in conjunction with legal counsel, drafts proposals including unique, complex special provisions and secures required management approval for submittal of proposals to customer.

Minimum Experience: This position typically requires six years of experience in contract administration. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in business or other related field. See Note, page 24.

**63. Subcontract Administrator**

Functional Description: Develops, negotiates, and administers subcontracts of high complexity and risk to fulfill authorized requirements, ensuring compliance on supplier cost, schedule, legal and performance aspects. Negotiates moderate subcontracts. Identifies and coordinates qualified sources and recommended suppliers.

Minimum Experience: This position typically requires three years of experience in purchasing. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent related experience. See Note, page 24.

**64. Program Planning and Control**

Functional Description: Provides financial, planning and scheduling support for contracts of substantial size and complexity and or high-level management attention. Implements management systems, performs analysis, and reports on contract performance. Performs database management for a specific project. Plans and uses appropriate software and hardware for technical support to customers in a responsive and cost effective manner. Maintains a variety of databases.

Minimum Experience: This position typically requires some related experience. See Note, page 24.

Minimum Education: Bachelor's degree or equivalent in Business, Computer Science, Information Systems, or other related field. See Note, page 24.

**Note:** The following clarification applies to all labor categories:

In some cases, the following will be considered in place of minimum education and experience: unique education; specialized experience, skills, knowledge, training, or certification; military training and/or experience; quality of experience; national recognition; or exceptional Grade Point Average. Related experience may be substituted for education. Education and experience requirements will be determined jointly by Boeing and the customer based on task requirements.