



PROFESSIONAL ENGINEERING SERVICES



CONTRACT NUMBER:GS-10F-0374T

GENERAL SERVICES ADMINISTRATION  
FEDERAL SUPPLY SERVICE

**AUTHORIZED  
PROFESSIONAL ENGINEERING SERVICES  
SCHEDULE PRICE LIST**

Contract Number:  
GS-10F-0374T

Contract Period of Performance/Date of Award:  
SEPTEMBER 27, 2007 THROUGH SEPTEMBER 26, 2012



Aurora Flight Sciences Corporation  
9950 Wakeman Drive, Manassas, VA 20110

Phone: 703-369-3633

Fax: 703-369-4514

[www.aurora.aero](http://www.aurora.aero)



## ABOUT AURORA FLIGHT SCIENCES CORPORATION

Aurora Flight Sciences Corporation (Aurora) is a U.S. Small Business that specializes in developing unmanned aerial vehicle (UAV) technology for research, defense and homeland security organizations. For more than 17 years, Aurora has expanded the limits of unmanned flight through the design and manufacture of innovative aircraft. Aurora's expertise enables the missions of a diverse client base consisting of government and commercial organizations, including National Aeronautics and Space Administration (NASA), Department of Defense, Northrop Grumman, Boeing, Sikorsky, Raytheon, Orbital Sciences Corporation, Lockheed Martin, and Defense Advanced Research Projects Agency (DARPA).

Aurora is headquartered in Manassas, Virginia, and operates production plants in Clarksburg, West Virginia and Columbus, Mississippi, as well as a Research and Development Center in Cambridge, Massachusetts.

Aurora currently operates four business sectors focusing on Tactical Products, Science Applications, Advanced Concepts, and Aerostructures. Among the company's signature programs are GoldenEye, a vertical takeoff and landing UAVs being developed for DARPA; MarsFlyer, a rocket-powered planetary UAV developed for NASA; and Global Hawk, a Northrop Grumman UAV for which Aurora manufactures major portions of the airframe. Aurora has experience designing, manufacturing, and testing composite and metal aerospace components, including primary airframe structures.

## Aurora's Capabilities

- **Engineering Capability** – Aurora's engineering team has the tools, skills, knowledge, and experience to review and assist in design, if required, for the components using 3-D modeling, CATIA® V5, LCA, NASTRAN finite element modeling. Our engineering department works closely with our manufacturing organization on production issues to assure affordable aerospace structures.
- **Manufacturing Capability** – Our best-in-class composite manufacturing facility uses modern, state-of-the-art manufacturing technology. Aurora's capabilities include machined components and sheet metal fabrications, allowing in-house manufacturing of all fabricated parts, greatly improving schedule performance and providing a lower-cost to our customers. We currently manufacture major structural components of the Global Hawk UAV for Northrop Grumman and U.S. Air Force (USAF), using tooling that Aurora has designed and built.
- **Production Experience** – Aurora currently produces complex aerospace structures for several military aircraft programs including RQ-4B Global Hawk, E-2D Advanced Hawkeye, EA-6B Prowler and others. These include composite laminate and sandwich structures, machined metal details, sheet metal parts, mechanical assemblies and bonded assemblies. Aurora is rated 'green' by both USAF and Defense Contract Management Agency (DCMA) for its outstanding performance on the Global Hawk program.
- **Schedule Performance** – Aurora's manufacturing operations have demonstrated outstanding performance for on time deliveries. Aurora has achieved 100% on time deliveries on the first seven Global Hawk RQ-4B aircraft, a track record which has resulted in positive recognition from USAF, DCMA, and Northrop Grumman. Aurora uses state-of-



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the-art Manufacturing Resource Planning information system to manage its production facilities to assure on time deliveries.

- **Affordability** – Aurora’s manufacturing operations have achieved cost competitive production which results in affordable aerospace structures. Aurora’s primary manufacturing facilities are in low labor cost areas which benefit from non-union environments. Aurora effectively implements lean aerospace manufacturing on the shop floor and in the support areas. Aurora’s engineering team has proven experience with design for production, resulting in lower manufacturing costs.
- **Quality** – Aurora delivers outstanding product quality based on its significant investment in modern manufacturing facilities and well-trained personnel. We rigorously adhere to ISO 9001 and AS9100 quality systems and procedures. Aurora maintains up to date systems for dimensional inspection and Non-Destructive Inspection of complex flight vehicle structures.
- **Helicopter Experience** – Aurora has successfully performed on the SARAP, Cypher II and VDTR UAV programs. Sikorsky recently selected Aurora for rate production of the Seahawk MH-60R Sonobuoy launcher assembly and design/production work on Sikorsky’s CH-53K.
- **NAVAIR Experience** – Aurora has significant manufacturing experience supporting key NAVAIR programs including the F-14 Tomcat, EA-6B Prowler and E-2 Hawkeye aircraft programs. Aurora produced Global Hawk air vehicles are currently undergoing evaluation by the NAVAIR under the Global Hawk Maritime Demonstration program.
- **Work Force** – Aurora’s work force is highly trained and exceptionally motivated to meet and/or exceed our customers’ expectations. Aurora’s selective hiring process results in outstanding qualified personnel. Aurora’s work force is loyal, resulting in low turn-over and a high-level of experience working together as a team.
- **Program Management Experience** – Aurora’s program management team has achieved demonstrated success on a wide variety of complex aerospace and defense programs. Aurora has talented program managers with experience managing both engineering and manufacturing activities on programs such as the Global Hawk EMD program which transitioned the Global Hawk RQ-4B from design into full rate production at Aurora.

To learn more about Aurora please visit our web site at [www.aurora.aero](http://www.aurora.aero)



## Customer Information

1A/1B/1C: TABLE OF AWARDED SPECIAL ITEM NUMBERS	
SIN #	Description
SIN 871-1	Strategic Planning for Technology Programs/Activities
SIN 871-2	Concept Development and Requirements Analysis
SIN 871-3	System Design, Engineering and Integration
SIN 871-4	Test and Evaluation
SIN 871-5	Integrated Logistics Support
SIN 871-6	Acquisition and Life Cycle Management

## Labor Categories

ITEM #	LABOR CATEGORY	YEARS OF EXPERIENCE	EDUCATIONAL REQUIREMENTS	FUNCTIONAL RESPONSIBILITY
A001	Program Manager	15-20+ years of professional experience with PhD or equivalent of education and experience with supervisory/management experience	Holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies advanced breadth and scope in multiple fields of specialization to the completion of high impact and high value projects. Significant tenure and expertise in program management or chief engineering capacity.
A002	Senior Project Engineer	8-17 years of professional experience	Normally holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies an advanced knowledge of particular field of specialization to the completion of projects of major complexity. Has comprehensive knowledge in this field of expertise. Regularly provide engineering support on multiple programs without management direction. Assignments have high impact on company projects.
A003	Project Engineer	4-12 years of professional experience	Masters degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex and significant assignments.
A004	Senior Systems Engineer	8-17 years of professional experience	Normally holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies an advanced knowledge of particular field of specialization to the completion of projects of major complexity. Has comprehensive knowledge in this field of expertise.



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ITEM #	LABOR CATEGORY	YEARS OF EXPERIENCE	EDUCATIONAL REQUIREMENTS	FUNCTIONAL RESPONSIBILITY
				Regularly provide engineering support on multiple programs without management direction. Assignments have high impact on company projects.
A005	Systems Engineer	4-12 years of professional experience	Masters degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education.)	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex and significant assignments.
A006	Junior Systems Engineer	0-5 years of professional experience	Bachelors degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Advances from knowing the fundamental concepts, practices and procedures of field specialization to possessing and applying a broad knowledge of principles, practices, and procedures of particular field of specialization to the completion of difficult assignments.
A007	Chief Engineer	15-20+ years of professional experience with PhD or equivalent of education and experience with supervisory/management experience	Holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies advanced breadth and scope in multiple fields of specialization to the completion of high impact and high value projects. Significant tenure and expertise in program management or chief engineering capacity.
A008	Design Engineer I	0-5 years of professional experience	Bachelors degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Advances from knowing the fundamental concepts, practices and procedures of field specialization to possessing and applying a broad knowledge of principles, practices, and procedures of particular field of specialization to the completion of difficult assignments.
A009	Design Engineer II	4-12 years of professional experience	Masters degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex and significant assignments.
A010	Design Engineer III	8-17 years of professional experience	Normally holds an advanced degree in field of specialization, usually at PhD	Possesses and applies an advanced knowledge of particular field of



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ITEM #	LABOR CATEGORY	YEARS OF EXPERIENCE	EDUCATIONAL REQUIREMENTS	FUNCTIONAL RESPONSIBILITY
			level or equivalent combination of education and related experience	specialization to the completion of projects of major complexity.
A011	Director, Product Development	10+ years professional experience	Masters degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex assignments.
A012	Engineering Operations Support Manager	5-10 years professional experience	Bachelors degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Knows and uses well the fundamental concepts, practices and procedures of particular field of specialization.
A013	Lead Engineer, Systems	15-20+ years of professional experience with PhD or equivalent of education and experience with supervisory/management experience	Holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies advanced breadth and scope in multiple fields of specialization to the completion of high impact and high value projects. Significant tenure and expertise in program management or chief engineering capacity.
A014	Lead Engineer, Propulsions	8-17 years of professional experience	Normally holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience.	Possesses and applies an advanced knowledge of particular field of specialization to the completion of projects of major complexity. Has comprehensive knowledge in this field of expertise. Regularly provide engineering support on multiple programs without management direction. Assignments have high impact on company projects.
A015	Lead Engineer, Structures	15-20+ years of professional experience with PhD or equivalent of education and experience with supervisory/management experience	Holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies advanced breadth and scope in multiple fields of specialization to the completion of high impact and high value projects. Significant tenure and expertise in program management or chief engineering capacity.
A016	Senior Software Engineer	4-12 years of professional experience	Masters degree in engineering or equivalent combination of education and related work experience (2 years of related	Possesses and applies a comprehensive knowledge of particular field of specialization to the



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ITEM #	LABOR CATEGORY	YEARS OF EXPERIENCE	EDUCATIONAL REQUIREMENTS	FUNCTIONAL RESPONSIBILITY
			experience may substitute for 1 year of education)	completion of complex and significant assignments.
A017	Electrical Engineer	0-5 years of professional experience	Bachelors degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Advances from knowing the fundamental concepts, practices and procedures of field specialization to possessing and applying a broad knowledge of principles, practices, and procedures of particular field of specialization to the completion of difficult assignments. Is considered a solid individual contributor.
A018	Lead Engineer, Software	15-20+ years of professional experience with PhD or equivalent of education and experience with supervisory/management experience	Holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies advanced breadth and scope in multiple fields of specialization to the completion of high impact and high value projects. Significant tenure and expertise in program management or chief engineering capacity.
A019	Manufacturing Engineer	4-12 years of professional experience	Masters degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex and significant assignments
A020	Senior Mechanical Engineer	4-12 years of professional experience	Masters degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex and significant assignments
A021	Mechanical Engineer	0-5 years of professional experience	Bachelors degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of education)	Advances from knowing the fundamental concepts, practices and procedures of field specialization to possessing and applying a broad knowledge of principles, practices, and procedures of particular field of specialization to the completion of difficult assignments.
A022	Research Engineer	0-5 years of professional experience	Bachelors degree in engineering or equivalent combination of education and related work experience (2 years of related experience may substitute for 1 year of	Advances from knowing the fundamental concepts, practices and procedures of field specialization to possessing and applying a broad knowledge of



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ITEM #	LABOR CATEGORY	YEARS OF EXPERIENCE	EDUCATIONAL REQUIREMENTS	FUNCTIONAL RESPONSIBILITY
			education)	principles, practices, and procedures of particular field of specialization to the completion of difficult assignments. Is considered a solid individual contributor.
A023	Structure Engineer	8-17 years of professional experience	Normally holds an advanced degree in field of specialization, usually at PhD level or equivalent combination of education and related experience	Possesses and applies an advanced knowledge of particular field of specialization to the completion of projects of major complexity
A025	Senior Graphic Designer	5-10 years professional experience	Bachelors degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Knows and uses well the fundamental concepts, practices and procedures of particular field of specialization
A026	Systems Analyst	5-10 years professional experience	Bachelors degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Knows and uses well the fundamental concepts, practices and procedures of particular field of specialization
A027	QA and Material Control Manager	10+ years professional experience	Masters degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex assignments
I001	Financial Analyst	5-10 years professional experience	Bachelors degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work	Knows and uses well the fundamental concepts, practices and procedures of particular field of specialization.
I002	Contracts Manager	10+ years professional experience	Masters degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Possesses and applies a comprehensive knowledge of particular field of specialization to the completion of complex assignments
I003	Contracts Coordinator	0-5 years professional experience	Bachelors degree in liberal arts, business administration or the social sciences or equivalent combination of education and related work experience	Knows and uses well the fundamental concepts, practices and procedures of particular field of specialization



### Labor Category Rates

CONTRACTOR SITE – SIN 871-1, 871-2, 871-3, 871-4, 871-5, AND 871-6						
Item Number	Proposed Labor Title	GSA Offered Rates Burdened Hourly Rates				
		Year 1	Year 2	Year 3	Year 4	Year 5
A001	Program Manager	\$ 258.57	\$ 271.49	\$ 285.07	\$ 299.32	\$ 314.29
A002	Senior Project Engineer	\$ 179.00	\$ 187.95	\$ 197.35	\$ 207.22	\$ 231.80
A003	Project Engineer	\$ 172.80	\$ 181.44	\$ 190.52	\$ 200.04	\$ 210.04
A004	Senior Systems Engineer	\$ 199.93	\$ 209.92	\$ 220.42	\$ 231.44	\$ 243.01
A005	Systems Engineer	\$ 156.07	\$ 163.87	\$ 172.07	\$ 180.67	\$ 189.70
A006	Junior Systems Engineer	\$ 104.92	\$ 110.17	\$ 115.67	\$ 121.46	\$ 127.53
A007	Chief Engineer	\$ 256.80	\$ 269.64	\$ 283.12	\$ 297.28	\$ 312.14
A008	Design Engineer I	\$ 115.59	\$ 121.37	\$ 127.44	\$ 133.81	\$ 140.50
A009	Design Engineer II	\$ 150.57	\$ 158.10	\$ 166.00	\$ 174.30	\$ 183.20
A010	Design Engineer III	\$ 190.66	\$ 200.19	\$ 210.20	\$ 220.71	\$ 231.75
A011	Director, Product Development	\$ 266.66	\$ 280.00	\$ 293.99	\$ 308.69	\$ 324.13
A012	Engineering Operations Support Manager	\$ 127.36	\$ 133.73	\$ 140.42	\$ 147.44	\$ 154.81
A013	Lead Engineer – Systems	\$ 284.39	\$ 298.61	\$ 313.54	\$ 329.22	\$ 345.68
A014	Lead Engineer – Propulsion	\$ 204.43	\$ 214.65	\$ 225.39	\$ 236.66	\$ 248.49
A015	Lead Engineer – Structures	\$ 247.30	\$ 259.66	\$ 272.64	\$ 286.28	\$ 300.59
A016	Senior Software Engineer	\$ 161.75	\$ 169.84	\$ 178.33	\$ 187.25	\$ 196.61
A017	Electrical Engineer	\$ 106.56	\$ 111.89	\$ 117.49	\$ 123.36	\$ 129.53
A018	Lead Engineer – Software	\$ 251.99	\$ 264.59	\$ 277.82	\$ 291.17	\$ 306.29
A019	Manufacturing Engineer	\$ 138.59	\$ 145.52	\$ 152.79	\$ 160.43	\$ 168.46
A020	Senior Mechanical Engineer	\$ 167.98	\$ 176.38	\$ 185.20	\$ 194.46	\$ 204.18
A021	Mechanical Engineer	\$ 115.52	\$ 121.30	\$ 127.37	\$ 133.73	\$ 140.42
A022	Research Engineer	\$ 110.22	\$ 115.73	\$ 121.51	\$ 127.59	\$ 133.97
A023	Structure Engineer	\$ 166.40	\$ 174.72	\$ 183.46	\$ 192.63	\$ 202.26
A024	Senior Graphic Designer	\$ 115.52	\$ 121.30	\$ 127.37	\$ 133.73	\$ 140.42
A025	Structure Design Engineer	\$ 126.19	\$ 132.50	\$ 139.12	\$ 146.08	\$ 153.38
A026	Systems Analyst	\$ 132.77	\$ 139.41	\$ 146.38	\$ 153.70	\$ 161.39
A027	Quality Assurance and Material Control Manager	\$ 165.53	\$ 171.71	\$ 180.29	\$ 189.31	\$ 198.77
I001	Financial Analyst	\$ 146.64	\$ 153.97	\$ 161.67	\$ 169.75	\$ 178.24
I002	Contracts Manager	\$ 205.50	\$ 215.77	\$ 226.56	\$ 237.89	\$ 249.79
I003	Contracts Coordinator	\$ 77.10	\$ 80.95	\$ 85.00	\$ 89.24	\$ 93.71



**INFORMATION FOR ORDERING OFFICES**

**1. SCOPE OF CONTRACT**

SCOPE OF CONTRACT	
SIN 871-1	Strategic Planning for Technology Programs/Activities
SIN 871-2	Concept Development and Requirements Analysis
SIN 871-3	System Design, Engineering and Integration
SIN 871-4	Test and Evaluation
SIN 871-5	Integrated Logistics Support
SIN 871-6	Acquisition and Life Cycle Management

**2. MAXIMUM ORDER**

The maximum dollar value per delivery order is \$750,000. Notwithstanding this limit, agencies may place and Aurora may honor orders exceeding this limit in accordance with FAR 8.404.

**3. MINIMUM ORDER**

The minimum order amount is \$100.00

**4. GEOGRAPHIC COVERAGE (DELIVERY AREA)**

Domestic

**5. POINT(S) OF PRODUCTION**

All items listed herein are domestic end products, from designated countries under the Trade Agreements Act or are U.S. made end products.

**6. DISCOUNT FROM LIST PRICES OR STATEMENT OF NET PRICE**

Government net Prices (discounts already applied)

**7. QUANTITY DISCOUNTS**

None

**8. PROMPT PAYMENT:**

None: Payment terms net 30 days

**9. GOVERNMENT COMMERCIAL CREDIT CARDS ARE ACCEPTED.**

Accepted Above and Below the Micro-purchase Threshold

**10. FOREIGN ITEMS (LIST ITEMS BY COUNTRY OF ORIGIN)**

None

**11. DELIVERY**



**11a. Time of Delivery**

To be negotiated with the ordering agency

**11b. Expedited Delivery**

To be negotiated with the ordering agency

**11c. Overnight and 2-day Delivery**

To be negotiated with the ordering agency

**11d. Urgent Requirements**

When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements, ordering activities are encouraged, if time permits to contact Aurora for the purpose of obtaining accelerated delivery. Aurora will reply to the inquiry within three (3) workdays after receipt. If Aurora offers an accelerated delivery time acceptable to the ordering activity, any order placed pursuant to the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract

**12. FOB POINTS**

Destination

**13. ORDERING**

**13a. Ordering Address**

Aurora Flight Sciences Corporation  
Attn: Ms. Sharon Roberts  
9950 Wakeman Drive, Manassas, VA 20110  
Phone 703-369-3633  
Fax: 703-369-4514

**13b. Ordering Procedures**

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's), and found in the Federal Acquisition Regulations (FAR) 8.405-3. A sample BPA can be found at the GSA/FSS Schedule homepage ([www.fss.gsa.gov/schedules](http://www.fss.gsa.gov/schedules))

**14. PAYMENT**

EFT INFORMATION	PAYMENT BY CHECK
Aurora Flight Sciences, Inc. C/O BB&T Routing No.(Wire & ACH): 051404260 Operating Account: 5237480386	Aurora Flight Sciences, Inc. c/o BB&T P.O. Box 890878 Charlotte, NC 28289-0878

**15. WARRANTY PROVISION**

Standard commercial warranty provisions for services as included in the issuance of individuals task orders shall apply. Unless otherwise provided by an express or implied warranty, Aurora



will not be liable to the Government for consequential damages resulting from any defect or deficiencies in items accepted or services rendered. For the purpose of this contract, warranties and representations include, in addition to those agreed for the entire schedule contract:

- (1) Time of delivery/installation quotations for individual orders;
- (2) Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment service/software package submitted in response to requirements which result in orders under this schedule contract.
- (3) Any representations and/or warranties concerning the products made in any literature, description, drawings, and/or specification furnished by the contractor.

The above warranty is not intended to encompass items not currently covered by the GSA Schedule Contract.

**16. EXPORT PACKING CHARGES, IF APPLICABLE**

Not Applicable

**17. GOVERNMENT PURCHASE CARDS**

Contact Aurora

**18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR:**

Not Applicable

**19. TERMS AND CONDITIONS – INSTALLATION**

Not Applicable

**20. TERMS AND CONDITIONS – REPAIR PARTS:**

Not Applicable

**20a. Terms and conditions of any other services (if applicable):**

Not Applicable

**21. LIST OF SERVICE AND DISTRIBUTION POINTS:**

Not Applicable

**22. DEALERS**

None

**23. PREVENTATIVE MAINTENANCE**

Not Applicable



#### **24. ENVIRONMENTAL ATTRIBUTES:**

Not Applicable

#### **25. DATA UNIVERSAL NUMBER SYSTEM NUMBER:**

60-4717165

#### **26. CENTRAL CONTRACTOR REGISTRATION:**

Registered

#### **27. TYPES OF ORDERS**

Both firm fixed-price and time and materials task orders are acceptable under this contract.

#### **28. ECONOMIC PRICE ADJUSTMENT**

Clause 552.216-70 Economic Price Adjustment applies

#### **29. SCOPE OF THE PROFESSIONAL ENGINEERING SCHEDULE CONTRACT**

The purpose of this schedule is to provide a vehicle for all Government agencies to obtain Professional Engineering Services in an efficient, streamlined, and cost effective manner in accordance with applicable statutes and regulations under a Multiple Awards Federal Supply Schedule (FAR Part 8 – as well as Part 38). Agencies will issue task orders in accordance with the established procedures to obtain the services required. A task order may contain any service or combination of services described herein.

The contractor shall 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 the contractor's facilities or the ordering agencies' facilities. The Government will determine the Contractor's compensation, to be specified at the task order level (e.g., a firm-fixed price for services with or without incentives, labor hours or time and materials).

There are four primary disciplines in the engineering field and hundreds of sub-disciplines or specialties associated with engineering disciplines. Below is a list of primary engineering disciplines with a partial list of sub-disciplines or specialties under PES.

#### **30. ELECTRICAL ENGINEERING**

Planning, design, development, evaluation and operation of electrical principles, models and processes. It 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 PED, there are several specialties within the scope of this work; a partial listing follows:



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

### 31. MECHANICAL ENGINEERING

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. It 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 PED, there are several specialties within the scope of this work. A partial listing follows:

- ASME K16-Heat Transfer
- Advanced Energy Systems
- Aerospace Engineering
- Applied Mechanics
- Bio-engineering
- Tribology
- Dynamic Systems and Control
- Electrical and Electronic Packaging
- Fluids Engineering
- Fluids Power Systems and Technology Systems
- Materials
- Management
- Nuclear Engineering
- Offshore Mechanics and Arctic Engineering
- Power
- Rail Transportation
- Technology and Society
- Fuels and Combustion Technologies
- Manufacturing Engineering \*
- Internal Combustion Engineering
- Materials Handling Engineering\*
- Textile Engineering
- Non-Destructive Evaluation Engineering
- Pressure Vessels and Piping



- Safety Engineering and Risk Analysis
- Heat Transfer
- International Gas Turbine
- Micro Channel flow and heat transfer
- Noise Control and Acoustics
- Design/Specification-associated personal property
- Ocean Engineering
- Process Industries
- Solar Energy

### 32. SAMPLE ENGINEERING TASKING

The following non-inclusive list represents a sampling of the types of engineering tasks contemplated:

- Acquisition and life cycle management
- Analysis of program goals, mission, objectives, performance
- Assessment Support
- Computer Aided Design (CAD)
- Computer Aided Engineering (CAE)
- Computer Aided Management (CAM)
- Concept development
- D&D (decontamination and decommissioning)
- Demonstration and Validation
- Design/Specifications of engineering nature not associated with real property
- Documentation and Information Dissemination
- Economic/Business case analysis
- Economic impact evaluations
- Education/training
- Environmental control for electrical units (e.g., cooling units)
- Forensic engineering
- Independent Verification and Validation (IV&V)
- Information services (studies, impact statements, program development, project documentation, data collection, data analysis/evaluation, etc.)
- Instrumentation
- Integration
- Investigative Engineering Service
- Life Cycle Costing
- Logistics
- Long-term Reliability and Maintainability
- Migration Strategy
- National Academy of Sciences studies
- Operations Research (Non R&D)
- Plan, organize, establish, implement, manage, maintain, upgrade and control of technical systems
- Privatization
- Program and Project management
- Prototype development and first article(s) production
- Radar/Sonar
- Regulatory compliance support
- Reliability and Maintainability Analysis



- Reverse engineering
- Signal processing
- Simulation and modeling
- Source data development (forward engineering hardware and software systems)
- Source data validation (existing hardware and software systems)
- Special projects and studies
- Statistical analysis
- Support services
- Systems engineering data base development, maintenance, and analysis
- Technical analysis
- Technical and management support
- Technical writing/editorial support
- T&E (test and evaluation) of products and systems

### **33. 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.

### **34. 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.

### **35. 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.

### **36. SIN 871-4 TEST AND EVALUATION**

Services required under this SIN involve 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.

### **37. 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.

### **38. SIN 871-6 ACQUISITION AND LIFE CYCLE MANAGEMENT**

Services required under this SIN involve all 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.

### **39. OUTSOURCING OR PRIVATIZATION OF PROFESSIONAL SERVICES**

Task orders may be issued for complete outsourcing or privatization of a single task or any portion of an agency's operations within the scope of the contract. Under this type of an order, the contractor could be expected to provide a wide range of functions including administrative, management and technical. The contractor would be responsible for overall operations including developing a management structure to properly provide the full range of required services; planning, management, direction and supervision of the work activities involved and the personnel performing them; any facilities and/or equipment provided by the government, including the management of facilities and equipment in accordance with the provisions and/or regulations specified in the task order. The individual ordering agency will be responsible for assuring that pertinent governmental guidelines (e.g., OMB Circular A-76) are followed in deciding to use the outsourcing or privatization portion of this schedule.