



Authorized Federal Supply Service
Schedule Price List for
Professional Engineering Services (PES)
Schedule

Contract Number GS-23F-0180N

FSC 871-4 & 871-4RC

Period Covered by Contract:

Option 1: March 11, 2008 thru March 10, 2013

Option 2: March 11, 2013 thru March 10, 2018

Option 3: March 11, 2018 thru March 10, 2023

Price list current as of Modification Number A244 dated June 13, 2012.

Business Size: Small Woman Owned

Products and ordering information in this Authorized Professional Engineering Services Schedule Price List are also available on GSA Advantage! System. Agencies can browse GSA advantage! Home Page via the internet at www.gsaadvantage.gov.

Avionics Test & Analysis Corporation

4540 E Hwy 20, STE 6

Niceville, FL 32578

Phone: 850-897-4553 or 866-266-2822

Fax: 850897-4331 or 800-214-2804

Website: www.Avtest.com

Contacts: Mike Abbott, President

Cynthia Childress, Contract Administrator

Customer Information

1. a. Specialty Sin 871-4 & 871-4RC Test and Evaluation awarded prices and descriptions are available on pages 5, 6, & 7.
b. Identification of the lowest priced categories is available on pages 5, 6, & 7.
c. Labor Category Descriptions & Education Requirements are available on pages 8 thru 27
2. Maximum Order: \$1,000,000.
3. Minimum Order: \$100
4. Geographic Coverage: 50 United States and US Territories
5. Points of Production: 50 United States and US Territories
6. Discounts from list price: Negotiated at the Task Order Level
7. Quantity Discounts: Negotiated at the Task Order Level
8. Prompt Payment Terms: Net 30 days
9. a. Notification whether government purchase cards are accepted at or below the micro-purchase threshold. Government purchase cards are accepted.
b. Notification whether government purchase cards are accepted or not accepted above the micro-purchase threshold. Government purchase cards are not accepted at this time unless otherwise negotiated in the Task Order.
10. Foreign Items: None
11. a. Time of Delivery: Deliverables shall be submitted in accordance with the deliverable schedule identified in each task order.
b. Expedited Delivery: No Expedited Delivery
c. Overnight & 2 day delivery: No Overnight or 2-day delivery
d. Urgent Requirements I –FSS-140-B: The points of contacts listed above are available for urgent requirements. Task requirements will be identified and ATAC’s ability to provide a rapid response evaluated. If it has been determined ATAC has the qualified personnel and the ability to deliver the task order in accordance with the customer’s request, then the President of ATAC will convene a meeting with the customer. This meeting will be held within 24-48 hours of initial contact and will be used discuss further task order requirements and pricing.
12. F.O.B. Points. Destination as identified in each Task Order
13. a. Ordering address: **Avionics Test and Analysis Corporation, 4540 E Hwy 20, STE 6, Niceville, FL 32578-9755**
b. Ordering procedures: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPAs), and a sample EPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).
14. Payment address: **Avionics Test and Analysis Corporation, 4540 E Hwy 20, STE 6 Niceville, FL 32578-9755**
15. Warranty Provisions: The Contractor warrants and implies that the items deliverable hereunder is merchantable and fit for use for the particular purpose described in this contract.
16. Export Packing Charges: Not applicable
17. Terms and Conditions of Government Purchase Card Acceptance (any thresholds above micro-purchase level): In accordance with the Government Commercial Credit Card guidelines.
18. Terms and conditions of rental, maintenance, and repair: Determined at the Task Order level
19. Terms and Conditions of Installation: Determined at the Task Order Level
20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list price: N/A
a. Terms and conditions for any other services: Determined at the Task Order Level
21. List of Service and Distribution Points: Determined at the Task Order Level

22. List of Participating Dealers: Not applicable
23. Preventative Maintenance: Not applicable
24. a. Special attributes such as environmental attributes(recycled content, energy efficiency, and/or reduced pollutants): None
- b. If applicable, indicate that Section 508 compliance information is available on EIT at www.section508.gov/N/A: Not Applicable
25. Data Universal Number System (DUNS) number: **96-586-7872**
26. Notification regarding registration in Central Contractor Registration (CCR) database: **Avionics Test & Analysis Corporation registration is valid through December 22, 2012.**



Description of Services

ATAC is a small business leader in the flight test and development of integrated weapon systems and components. ATAC presently supports avionics integration and performance analysis on tactical systems including multimode radar, fire control, CNI, GPS, IAM, HARM, EW, HARM, and passive and laser based targeting pods. ATAC engineering service includes experiment design, data processing, data analysis and text execution and reporting. Our engineers have design level knowledge of the F-15, F-16, A-10, F-22, B-2, B-52, C-17 and C-130J aircraft and all IAM systems (JDAM, SDB, HCSM). We have performed external stores certification, modeling and simulation (UNIGRAPHICS and CFD), and handling qualities analysis (S&C, Flutter and Loads) on all USAF aircraft.

ATAC DPS and PROBE application software is used at major defense prime contractor facilities and by the US Navy and Air Force. ATAC system supports legacy digital tapes and IRIG 106 Chapter 10. Our output files in CSV, HDF, STD or ARC are compatible with MATLAB, PROBE, Data Views and PVWAVE. In addition to analysis expertise using these tools, ATAC provides expertise in capture, processing, formatting and distribution of complex data.

ATAC GSA Approved Labor Rates (Government Site)

**EXHIBIT B,
MODIFICATION
PS-0004,
GS-23F-0180N**

SINs and PEDs
SINs: 871-4
SINs: 871-4RC

OPTION 2

Year 11	Year 12	Year 13	Year 14	Year 15
3/11/2013	3/11/2014	3/11/2015	3/11/2016	3/11/2017
to	to	to	to	to
3/10/2014	3/10/2015	3/10/2016	3/10/2017	3/10/2018

PED: Test & Evaluation

Code	Position/Labor Categories	Sub-Discipline						
GCO	Group Chief Operations	Aero Systems	\$109.49	\$111.68	\$113.91	\$116.19	\$118.52	
ANL1	Journeyman Analyst	Circuits/Systems	\$59.63	\$60.82	\$62.04	\$63.28	\$64.55	
CS1	Journeyman Computer Scientist	Computer Systems	\$49.69	\$50.68	\$51.70	\$52.73	\$53.79	
EN1	Journeyman Engineer	Remote Sensing Systems	\$50.20	\$51.20	\$52.23	\$53.27	\$54.34	
CS2	Lead Computer Scientist	Engineering Mgmt	\$51.84	\$52.88	\$53.93	\$55.01	\$56.11	
EN2	Lead Engineer	EMI/EMC Radar Logistics Support	\$58.72	\$59.89	\$61.09	\$62.31	\$63.56	
MTS1	Para Engineer		\$69.48	\$70.87	\$72.29	\$73.73	\$75.21	
PGM	Program Manager		\$109.49	\$111.68	\$113.91	\$116.19	\$118.52	
PMA1	Program Manager Assistant		\$36.32	\$37.05	\$37.79	\$38.54	\$39.31	
PM2	Program Manager II		\$151.82	\$154.86	\$157.95	\$161.11	\$164.33	
ANL2	Senior Analyst		\$79.63	\$81.22	\$82.85	\$84.51	\$86.20	
CS3	Senior Computer Scientist I		\$66.43	\$67.76	\$69.11	\$70.50	\$71.91	
CS4	Senior Computer Scientist II		\$88.94	\$90.72	\$92.53	\$94.38	\$96.27	
EN3	Senior Engineer I		\$69.77	\$71.17	\$72.59	\$74.04	\$75.52	
EN4	Senior Engineer II		\$96.63	\$98.56	\$100.53	\$102.54	\$104.60	
EN6	Senior Engineer IV		\$114.25	\$116.54	\$118.87	\$121.24	\$123.67	
EN7	Senior Engineer V		\$124.86	\$127.36	\$129.90	\$132.50	\$135.15	
MTS2	Senior Member Technical Staff		\$67.85	\$69.21	\$70.59	\$72.00	\$73.44	
SME 1	Sr. Scientist/SME -1		\$151.82	\$154.86	\$157.95	\$161.11	\$164.33	
TWR1	Technical Writer**		\$52.20	\$53.24	\$54.31	\$55.40	\$56.50	

** Indicates SCA Eligible Categories-see the SCA Matrix following the price list for additional information.

Prices include an Industrial Funding Fee (IFF) of .75% and reflect annual escalation of 2.0%. However, escalation in option 3 is subject to re-evaluation when/if the option is exercised

**EXHIBIT B,
MODIFICATION
PS-0004,
GS-23F-0180N**

SINs and PEDs

SINs: 871-4
SINs: 871-4RC

SINs: 871-5

PED: Test & Evaluation

Option 3

Year 16	Year 17	Year 18	Year 19	Year 20
3/11/2018	3/11/2019	3/11/2020	3/11/2021	3/11/2022
to	to	to	to	to
3/10/2019	3/10/2020	3/10/2021	3/10/2022	3/10/2023

Code	Position/Labor Categories	Sub-Discipline					
GCO	Group Chief Operations	Aero Systems	\$120.89	\$123.30	\$125.77	\$128.28	\$130.85
ANL1	Journeyman Analyst	Circuits/Systems	\$65.84	\$67.15	\$68.50	\$69.87	\$71.26
CS1	Journeyman Computer Scientist	Computer Systems	\$54.86	\$55.96	\$57.08	\$58.22	\$59.38
EN1	Journeyman Engineer	Remote Sensing Systems	\$55.42	\$56.53	\$57.66	\$58.82	\$59.99
CS2	Lead Computer Scientist	Engineering Mgmt	\$57.24	\$58.38	\$59.55	\$60.74	\$61.95
EN2	Lead Engineer	EMI/EMC Radar Logistic Support	\$64.83	\$66.13	\$67.45	\$68.80	\$70.18
MTS1	Para Engineer		\$76.71	\$78.25	\$79.81	\$81.41	\$83.04
PGM	Program Manager		\$120.89	\$123.30	\$125.77	\$128.28	\$130.85
PMA1	Program Manager Assistant		\$40.10	\$40.90	\$41.72	\$42.55	\$43.41
PM2	Program Manager II		\$167.62	\$170.97	\$174.39	\$177.88	\$181.44
ANL2	Senior Analyst		\$87.92	\$89.68	\$91.47	\$93.30	\$95.17
CS3	Senior Computer Scientist I		\$73.34	\$74.81	\$76.31	\$77.83	\$79.39
CS4	Senior Computer Scientist II		\$98.20	\$100.16	\$102.16	\$104.21	\$106.29
EN3	Senior Engineer I		\$77.03	\$78.57	\$80.14	\$81.75	\$83.38
EN4	Senior Engineer II		\$106.69	\$108.82	\$111.00	\$113.22	\$115.48
EN6	Senior Engineer IV		\$126.14	\$128.66	\$131.24	\$133.86	\$136.54
EN7	Senior Engineer V		\$137.86	\$140.61	\$143.42	\$146.29	\$149.22
MTS2	Senior Member Technical Staff		\$74.91	\$76.41	\$77.94	\$79.50	\$81.09
SME 1	Sr. Scientist/SME -1		\$167.62	\$170.97	\$174.39	\$177.88	\$181.44
TWR1	Technical Writer**		\$57.63	\$58.79	\$59.96	\$61.16	\$62.38

** Indicates SCA Eligible Categories-see the SCA Matrix following the price list for additional information.

Prices include an Industrial Funding Fee (IFF) of .75% and reflect annual escalation of 2.0%. However, escalation for Option 3 is subject to re-evaluation when/if the option is exercised.

SCA MATRIX

Labor Category	SCA Equivalent Code Title	WD Number
Technical Writer 1	29480 Technical Writer	30461

The Service Contract Act (SCA) is applicable to this contract and it includes SCA applicable labor categories. The prices for the indicated SCA labor categories are based on the U.S. Department of Labor Wage Determination Number(s) identified in the matrix. The prices offered are based on the preponderance of where work is performed and should the contractor perform in an area with lower SCA rates, resulting in lower wages being paid, the task order prices will be discounted accordingly.

ATAC GSA Labor Category Descriptions

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	GCO	Group Chief Operations		
EDUCATION				
Bachelor's Degree required, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, Physics, Mathematics or other related science degree.				
GENERAL EXPERIENCE				
8 years of general experience (Master's and Ph.D. Degrees count as experience) in the Engineer, Analyst, or Computer Scientist labor categories.				
SPECIFIC EXPERIENCE				
10 years of specific experience as described in the Engineer, Analysts, or Computer Scientist labor categories with a Master's or Ph.D. degree				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	EN4	Senior Engineer II		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
12 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering principles. The senior engineer applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems. Reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation. Applies engineering experience to perform functions such as system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
8 Years Specific Experience in monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. Senior engineer will specialize in one of the following areas:				
1) Experience in the application of dynamics, vibrations, and structures and knowledge of strength of materials, aerodynamics, numerical analyses, differential equations, matrix algebra, and computer programming.				
2) Experience in aircraft stability and control theory. This shall include classical flight control theory and modern control theory. This would include creating, modifying, and running computer simulation programs, which evaluate aircraft aerodynamics or avionics. Additional experience shall be required in aircraft performance and aerodynamic analyses. The engineer shall be able to perform aircraft weight and balance calculations and estimate aircraft/store stability and control coefficients.				
3) Experience in the separation of stores from aircraft. The engineer may have experience in developing, modifying, and running 6-DOF computer programs. The engineer shall have experience in interpretation of wind tunnel test and flight test data to determine safe store separation flight limits.				
4) Experience in performing Computational Fluid Dynamics (CFD) analyses of aircraft/store configurations. This would include a working knowledge of CFD computer codes and techniques as well as pre and post processor tools developed specifically for CFD. The engineer shall have experience in creating and modifying 3-dimensional surface and volume grids necessary to generate CFD analyses. Will possess experience in building input decks, modifying existing codes, and running flow solver routines required to solve fluid flow equations for complicated aircraft/store configurations.				
5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields				
6) Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data				
7) Experience in the fields of aerodynamics and flight mechanics as related to aircraft armament systems. Shall have experience in weapon free-stream aerodynamics, aircraft performance, and weapon loading and release.				
8) Experience in the design test and evaluation of avionics sub systems on aircraft. Experience in test design and implementation for developmental aircraft.				
9) Experience in program management principles relating to schedule and financial performance shall be required.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	EN3	Senior Engineer I		
EDUCATION				
Bachelor's Degree or equivalent experience required in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
7 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering principles. The senior engineer applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems. Reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation. Applies engineering experience to perform functions such as system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
<p>Years Specific Experience in monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. Senior engineer will specialize in one of the following areas:</p> <ol style="list-style-type: none"> 1) Experience in the application of dynamics, vibrations, and structures and knowledge of strength of materials, aerodynamics, numerical analyses, differential equations, matrix algebra, and computer programming. 2) Experience in aircraft stability and control theory. This shall include classical flight control theory and modern control theory. This would include creating, modifying, and running computer simulation programs, which evaluate aircraft aerodynamics or avionics. Additional experience shall be required in aircraft performance and aerodynamic analyses. The engineer shall be able to perform aircraft weight and balance calculations and estimate aircraft/store stability and control coefficients. 3) Experience in the separation of stores from aircraft. The engineer may have experience in developing, modifying, and running 6-DOF computer programs. The engineer shall have experience in interpretation of wind tunnel test and flight test data to determine safe store separation flight limits. 4) Experience in performing Computational Fluid Dynamics (CFD) analyses of aircraft/store configurations. This would include a working knowledge of CFD computer codes and techniques as well as pre and post processor tools developed specifically for CFD. The engineer shall have experience in creating and modifying 3-dimensional surface and volume grids necessary to generate CFD analyses. Will possess experience in building input decks, modifying existing codes, and running flow solver routines required to solve fluid flow equations for complicated aircraft/store configurations. 5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields 6) Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data 7) Experience in the fields of aerodynamics and flight mechanics as related to aircraft armament systems. Shall have experience in weapon free-stream aerodynamics, aircraft performance, and weapon loading and release. 8) Experience in the design test and evaluation of avionics sub systems on aircraft. Experience in test design and implementation for developmental aircraft. 				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	EN2	Lead Engineer		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
5 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering principles. The senior engineer applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems. Reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation. Applies engineering experience to perform functions such as system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
3 Years Specific Experience in monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. The Lead engineer will specialize in one of the following areas:				
1) Experience in the application of dynamics, vibrations, and structures and knowledge of strength of materials, aerodynamics, numerical analyses, differential equations, matrix algebra, and computer programming.				
2) Experience in aircraft stability and control theory. This shall include classical flight control theory and modern control theory. This would include creating, modifying, and running computer simulation programs, which evaluate aircraft aerodynamics or avionics. Additional experience shall be required in aircraft performance and aerodynamic analyses. The engineer shall be able to perform aircraft weight and balance calculations and estimate aircraft/store stability and control coefficients.				
3) Experience in the separation of stores from aircraft. The engineer may have experience in developing, modifying, and running 6-DOF computer programs. The engineer shall have experience in interpretation of wind tunnel test and flight test data to determine safe store separation flight limits.				
4) Experience in performing Computational Fluid Dynamics (CFD) analyses of aircraft/store configurations. This would include a working knowledge of CFD computer codes and techniques as well as pre and post processor tools developed specifically for CFD. The engineer shall have experience in creating and modifying 3-dimensional surface and volume grids necessary to generate CFD analyses.				
5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields				
6) Experience in program management principles relating to schedule and financial performance shall be required. Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data				
7) Experience in the fields of aerodynamics and flight mechanics as related to aircraft armament systems. Shall have experience in weapon free-stream aerodynamics, aircraft performance, and weapon loading and release.				
8) Experience in the design test and evaluation of avionics sub systems on aircraft. Experience in test design and implementation for developmental aircraft.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	EN1	Journeyman Engineer		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
2 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering principles. The Journeyman engineer applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems. Reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation. Applies engineering experience to perform functions such as system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
<p>1 Years Specific Experience in monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. The engineer will specialize in one of the following areas:</p> <ol style="list-style-type: none"> 1) Experience in the application of dynamics, vibrations, and structures and knowledge of strength of materials, aerodynamics, numerical analyses, differential equations, matrix algebra, and computer programming. 2) Experience in aircraft stability and control theory. This shall include classical flight control theory and modern control theory. This would include creating, modifying, and running computer simulation programs, which evaluate aircraft aerodynamics or avionics. Additional experience shall be required in aircraft performance and aerodynamic analyses. The engineer shall be able to perform aircraft weight and balance calculations and estimate aircraft/store stability and control coefficients. 3) Experience in the separation of stores from aircraft. The engineer may have experience in developing, modifying, and running 6-DOF computer programs. The engineer shall have experience in interpretation of wind tunnel test and flight test data to determine safe store separation flight limits. 4) Experience in performing Computational Fluid Dynamics (CFD) analyses of aircraft/store configurations. This would include a working knowledge of CFD computer codes and techniques as well as pre and post processor tools developed specifically for CFD. The engineer shall have experience in creating and modifying 3-dimensional surface and volume grids necessary to generate CFD analyses. 5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields 6) Experience in program management principles relating to schedule and financial performance shall be required. Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data 7) Experience in the fields of aerodynamics and flight mechanics as related to aircraft armament systems. Shall have experience in weapon free-stream aerodynamics, aircraft performance, and weapon loading and release. 8) Experience in the design test and evaluation of avionics sub systems on aircraft. Experience in test design and implementation for developmental aircraft. 				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	ANL2	Senior /Lead Analyst		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's Degree desired, in Computer, Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
5 Years General Experience (Master's and Ph.D. Degrees count as experience) in performing professional work in operations research to obtain solutions of complex problems pertaining to the effective employment of weapon systems through the analysis of weapon delivery and delivery aircraft performance data using computer simulations of aircraft and weapon systems. Shall be experienced in performing professional work in operations research to obtain solutions of complex problems pertaining to the safe employment of weapon systems through analysis. Shall be responsible for performing professional work in operations research to obtain solutions of complex problems pertaining to the effective employment of systems through analysis using computer simulations. Shall have experience in manipulating and reducing technical data. Technical data experience shall include dimensional analysis, configuration control, and unit of measurement conversion, statistics, and relational database structure.				
SPECIFIC EXPERIENCE				
3 Years Specific Experience utilizing mathematics, operations research, statistics, or logic, which requires substantial competency in mathematics or statistics. The analyst will specialize in one of the following areas: 1) Aircraft fire control systems, weapons, fusing, and aircraft performance capability as applied to the field of weapon ballistics and delivery in order to independently investigate the functions and characteristics of weapon systems and aircraft delivery techniques. 2) Aircraft and guided/unguided weapon systems, aerodynamics, aircraft performance, and general tactical employment concepts. Shall be able to model guided/unguided weapons, manage and conduct testing of the Combat Weapon Delivery 3) Developing and formulating mathematical models for various computer programs. Shall need to possess extensive knowledge of computer systems and languages, specialized knowledge in weapon systems capabilities and aircraft performance, and extensive knowledge of ordinary differential equations, numerical techniques, and dynamics. 4) Developing computer databases for data flow and manipulation. The database analyst shall have a working knowledge of Personal Computer (PC) software to include spreadsheets, database, presentation graphics, and word processing. The individual shall have a background in aerodynamic terminology and understand the aircraft/store flight conditions to include, but not limited to, altitude, airspeed, center of gravity, inertia, weight, length, dive-angle, etc.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	ANL1	Journeyman Analyst		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's Degree desired, in Computer, Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
2 Years General Experience (Master's and Ph.D. Degrees count as experience) in performing professional work in operations research to obtain solutions of complex problems pertaining to the effective employment of weapon systems through the analysis of weapon delivery and delivery aircraft performance data using computer simulations of aircraft and weapon systems. Shall be experienced in performing professional work in operations research to obtain solutions of complex problems pertaining to the safe employment of weapon systems through analysis. Shall be responsible for performing professional work in operations research to obtain solutions of complex problems pertaining to the effective employment of systems through analysis using computer simulations. Shall have experience in manipulating and reducing technical data. Technical data experience shall include dimensional analysis, configuration control, and unit of measurement conversion, statistics, and relational database structure.				
SPECIFIC EXPERIENCE				
1 Years Specific Experience utilizing mathematics, operations research, statistics, or logic, which requires substantial competency in mathematics or statistics. The analyst will specialize in one of the following areas: 1) Aircraft fire control systems, weapons, fusing, and aircraft performance capability as applied to the field of weapon ballistics and delivery in order to independently investigate the functions and characteristics of weapon systems and aircraft delivery techniques. 2) Aircraft and guided/unguided weapon systems, aerodynamics, aircraft performance, and general tactical employment concepts. Shall be able to model guided/unguided weapons, manage and conduct testing of the Combat Weapon Delivery 3) Developing and formulating mathematical models for various computer programs. Shall need to possess extensive knowledge of computer systems and languages, specialized knowledge in weapon systems capabilities and aircraft performance, and extensive knowledge of ordinary differential equations, numerical techniques, and dynamics. 4) Developing computer databases for data flow and manipulation. The database analyst shall have a working knowledge of Personal Computer (PC) software to include spreadsheets, database, presentation graphics, and word processing. The individual shall have a background in aerodynamic terminology and understand the aircraft/store flight conditions to include, but not limited to, altitude, airspeed, center of gravity, inertia, weight, length, dive-angle, etc.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	CS4	Senior Computer Scientist II		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired in Computer Sciences, Physics, Mathematics, Engineering, or other related science.				
GENERAL EXPERIENCE				
12 Years General Experience in software development. The senior computer scientist designs, develops, tests, installs, documents, maintains and supports software applications. The senior computer scientist shall have experience in at least two (2) programming languages with Pascal, FORTRAN, ADA, C, and Basic being preferred. The senior computer scientist shall have experience developing applications on micro, mini or mainframe computers running Windows, UNIX or VMS operating systems. Experience with developing applications using a relational database desired. An understanding of software practices and procedures a plus. The senior computer scientist shall be able to manage a group of computer scientists and should be capable of performing his duties with a wide degree of flexibility and direction.				
SPECIFIC EXPERIENCE				
8 Years Specific Experience in a specialty area as follows: 1) Database development having experience in writing Structured Query Language (SQL) commands and familiarity with SQL or ORACLE databases and Windows or UNIX operating systems. Experience in the administration of databases and handling technical information shall be required. 2) CAD software development having experience in using software to control a CAD software application such as UNIGRAPHICS. CAD computer scientist shall have CAD experience and aircraft/weapon related drawing experience. 3) Tools development having experience in research and development of software for the fields of aerodynamics, flight mechanics, weapons or avionics as related to computer simulations. Shall possess complete familiarity with digital computer programming, weapon systems delivery methodology, or aircraft performance modeling. 4) Software development experience in managing the development of applications. Understanding of the processes needed to produce quality software is required.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	CS3	Senior Computer Scientist I		
EDUCATION				
Bachelor's Degree or equivalent experience required in Computer Sciences, Physics, Mathematics, Engineering, or other related science.				
GENERAL EXPERIENCE				
7 Years General Experience in software development. The senior computer scientist designs, develops, tests, installs, documents, maintains and supports software applications. The senior computer scientist shall have experience in at least two (2) programming languages with Pascal, FORTRAN, ADA, C, and Basic being preferred. The senior computer scientist shall have experience developing applications on micro, mini or mainframe computers running Windows, UNIX or VMS operating systems. Experience with developing applications using a relational database desired. An understanding of software practices and procedures a plus. The senior computer scientist may direct the work of others and should be capable of performing his duties with a wide degree of flexibility and direction.				
SPECIFIC EXPERIENCE				
5 Years Specific Experience in a specialty area as follows: 1) Database development having experience in writing Structured Query Language (SQL) commands and familiarity with SQL or ORACLE databases and Windows or UNIX operating systems. Experience in the administration of databases and handling technical information shall be required. 2) CAD software development having experience in using software to control a CAD software application such as UNIGRAPHICS. CAD computer scientist shall have CAD experience and aircraft/weapon related drawing experience. 3) Tools development having experience in research and development of software for the fields of aerodynamics, flight mechanics, weapons or avionics as related to computer simulations. Shall possess complete familiarity with digital computer programming, weapon systems delivery methodology, or aircraft performance modeling.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	CS2	Lead Computer Scientist		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired in Computer Sciences, Physics, Mathematics, Engineering, or other related science.				
GENERAL EXPERIENCE				
5 Years General Experience in software development. Experience shall be required in at least two (2) programming languages to include Pascal, FORTRAN, ADA, C+, or Basic. The computer scientist shall have experience in PC, SUN, UNIX or VAX based relational database software. Experience in the design, modification, and maintenance of relational databases with the integration of PC workstations and mainframes shall be required. Shall possess a comprehensive understanding of computer software to include application and language software. Shall be required to program original and modify existing software using FORTRAN, Basic, Pascal, and C languages on micro, mini, and mainframe computers operating under Windows and UNIX environments. ADA programming experience in DOS, UNIX, or VMS environments is desired. In addition, a basic knowledge of common application software shall be required.				
SPECIFIC EXPERIENCE				
3 Years Specific Experience in a specialty area as follows: 1) Database development having experience in writing Structured Query Language (SQL) commands and be familiar with SQL or ORACLE database and Windows or UNIX operating system. Experience in the administration of databases and handling technical information shall be required. Familiar with postscript page description language shall be required. 2) CAD/CATIA development. Experience shall be using UNIGRAPHICS software or equivalent, GRIP, UNIX, networking, creating, modifying, and using CAD and/or specification drawings. CAD computer scientist will use GRIP or equivalent to develop a user-friendly "front-end windows". Shall have CAD experience and aircraft/weapon related drawing experience. 3) Tools development. Require demonstrated research and development experience in the fields of aerodynamics, flight mechanics, weapons or avionics as related to computer simulations. Shall possess complete familiarity with digital computer programming, weapon systems delivery methodology, or aircraft performance modeling.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	CS1	Journeyman Computer Scientist		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired in Computer Sciences, Physics, Mathematics, Engineering, or other related science.				
GENERAL EXPERIENCE				
3 Years General Experience in software development. Experience shall be required in at least two (2) programming languages to include Pascal, FORTRAN, ADA, C+, or Basic. The computer scientist shall have experience in PC, SUN, UNIX or VAX based relational database software. Experience in the design, modification, and maintenance of relational databases with the integration of PC workstations and mainframes shall be required. Shall possess a comprehensive understanding of computer software to include application and language software. Shall be required to program original and modify existing software using FORTRAN, Basic, Pascal, and C languages on micro, mini, and mainframe computers operating under Windows and UNIX environments. ADA programming experience in DOS, UNIX, or VMS environments is desired. In addition, a basic knowledge of common application software shall be required.				
SPECIFIC EXPERIENCE				
1 Years Specific Experience in a specialty area as follows: 1) Database development having experience in writing Structured Query Language (SQL) commands and be familiar with SQL or ORACLE database and Windows or UNIX operating system. Experience in the administration of databases and handling technical information shall be required. Familiar with postscript page description language shall be required. 2) CAD/CATIA development. Experience shall be using UNIGRAPHICS software or equivalent, GRIP, UNIX, networking, creating, modifying, and using CAD and/or specification drawings. CAD computer scientist will use GRIP or equivalent to develop a user-friendly "front-end windows". Shall have CAD experience and aircraft/weapon related drawing experience. 3) Tools development. Require demonstrated research and development experience in the fields of aerodynamics, flight mechanics, weapons or avionics as related to computer simulations. Shall possess complete familiarity with digital computer programming, weapon systems delivery methodology, or aircraft performance modeling.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	MTS1	Para-Engineer, non-degreed		
EDUCATION				
High school graduate or equivalency certification and successful completion of a technical school, trade school, or advanced armed services technical school curriculum or course of study in electricity, electronics, avionics, mechanics, armaments/ordnance or engineering technology; or, successful completion of at least 30 semester hours (45 quarter hours) of course studies at an accredited college or university in an engineering, scientific, or technical curriculum.				
General Experience				
10 years demonstrated ability to apply engineering techniques, principles and precedents to develop, design, modify, install test evaluate or operate electrical electronic, avionics, mechanical, communications, stores, armament/ordnance, or related data processing systems for military weapon systems or associated support equipment of facilities. Experience Maintaining, repairing, inspecting, troubleshooting, or programming systems equipment or components. Experience reviewing, analyzing, developing, preparing or applying engineering, technical or maintenance specifications, policies, standards or procedures. Experience may include planning and performing tests and evaluations of systems equipment or components and Compiling, processing, reducing, or analyzing test data and results.				
SPECIFIC EXPERIENCE				
At least four years of experience in performing the foregoing functions on a specific system or subsystem. At least three years total experience shall have consisted of performing engineering technical functions with respect to military aircraft systems and subsystems.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	MTS2	Senior Member of the Technical Staff		
EDUCATION				
High school graduate or equivalency certification and completion of a technical school, trade school, or advanced armed services technical school curriculum or course of training in electricity, electronics, avionics, mechanics, armaments/ordnance, or engineering technology; or completion of at least 30 semester hours (45 quarter hours) of course studies at an accredited college or university in an engineering, scientific, or technical curriculum.				
General Experience				
Ten Years experience Independently applying engineering techniques, principles and precedents to develop, design, modify, install, test, evaluate or operate electrical, electronic, avionics, mechanical, communications, stores, armament/ordnance, or related data processing systems for military weapon systems or associated support equipment or facilities. Experience Maintaining, repairing, inspecting, troubleshooting, or programming systems equipment or components. Experience reviewing, analyzing, developing, preparing or applying engineering, technical or maintenance specifications, policies, standards or procedures. Technical staff Organizes, analyzes, and prepares reports or presentations of technical data and information also plans and performs tests and evaluations of systems equipment or components. Compiles, processes, reduces, or analyzes test data and results.				
SPECIFIC EXPERIENCE				
At least five years experience shall have consisted of performing engineering technical functions with respect to specific systems and subsystems. At least four years of total experience shall have been as a team leader or supervisor performing the foregoing management functions using applicable military safety regulations.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	TWR1	Technical Writer		
EDUCATION				
Bachelor's Degree required with Master's Degree desired in English, related Arts and Sciences, or Engineering.				
GENERAL EXPERIENCE				
7 Years General Experience The technical writer/editor shall be familiar with writing/editing technical documents and correspondence. Shall have working knowledge of Microsoft Word software. Shall be experienced in working with engineering, operations maintenance, and weapons specialist in order to write, edit, verify, and validate job guides or other technical publications.				
SPECIFIC EXPERIENCE				
5 Years Specific Experience Shall have experience creating and modifying DoD documentation and correspondence in accordance with the appropriate MIL Standard. May require experience specifically with MIL-M-38784C, dated 16 Apr 93 (superseded MIL-M-38730, dated 30 Apr 65), which covers Manuals, Technical: General Style and Format Requirements. Shall have appropriate written communication skills. Shall have expert knowledge of military standards required to prepare job guides such as MIL-M-38784B and shall have a working knowledge of TO-00-5-1 and TM 86-01.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	PGM	Program Manager		
EDUCATION				
A bachelor's degree in an engineering, scientific, or technical discipline or postgraduate degree in business management discipline from an accredited college or university.				
GENERAL EXPERIENCE				
Ten years acting as the lead engine or manager for a contract effort. Experience serving as the primary interface and point of contact with Government program authorities and representatives on technical program/project and contract administration issues. Supervisory experience in program/project operations, developing technical and management procedures and controls, planning and directing project execution, monitoring, and reporting progress. Management acquisition employment of program/project resources experience. Manages and controls financial and administrative aspects of the program/project with respect to contract requirements.				
SPECIFIC EXPERIENCE				
A total of at least seven years of management and supervisory experience which includes performance of each of the foregoing functions with respect to technical program/projects. At least three years experience as a team leader or supervisor performing engineering management functions.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	PMA1	Program Manager Assistant		
EDUCATION				
High school graduate or equivalency certification.				
GENERAL EXPERIENCE				
Five years experience conducting administrative and record keeping for major programs. Knowledge of office management, methods, and procedures in producing and maintaining documentation, correspondence, records, or directives. Experienced in reporting on matters related to project/program progress and status documentation, budget, finance, property accounting, or personnel management. May manage or supervise administrative aspects of the contractor's operations. Produces technical reports and papers, test plans, or other project/program documentation in final format from rough notes or drafts. Experience with specialized and technical terminology to proofread and correct spelling, grammar and phraseology. Completely familiar with desktop computers, word processing programs and common spreadsheet/accounting software.				
SPECIFIC EXPERIENCE				
Three years experience in office management, filing, greeting and related office equipment operations. Twelve months experience using a computer word processor using Microsoft Word or equivalent. Experience sufficient to provide instruction in the following PC origins is required: EXCEL, Power Point, WORD or equivalent.				

Following are New Labor Categories added August 2009

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	EN7	Senior Engineer V		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
20 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering principles. The senior engineer applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems. Reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation. Applies engineering experience to perform functions such as system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
<p>16 Years Specific Experience in monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. Senior engineer will specialize in one of the following areas:</p> <ol style="list-style-type: none"> 1) Experience in the application of dynamics, vibrations, and structures and knowledge of strength of materials, aerodynamics, numerical analyses, differential equations, matrix algebra, and programming. 2) Experience in aircraft stability and control theory. This shall include classical flight control theory and modern control theory, creating, modifying, and running computer simulation programs to evaluate aircraft aerodynamics or avionics. Additional experience shall be required in aircraft performance and aerodynamic analyses. The engineer shall be able to perform aircraft weight and balance calculations. 3) Experience in the separation of stores from aircraft. The engineer may have experience in developing, modifying, and running 6-DOF computer programs. The engineer shall have experience in interpretation of wind tunnel test and flight test data to determine safe store separation flight limits. 4) Experience in performing Computational Fluid Dynamics (CFD) analyses of aircraft/store configurations. This would include a working knowledge of CFD computer codes and techniques as well as pre and post processor tools developed specifically for CFD. The engineer shall have experience in creating and modifying 3-dimensional surface and volume grids necessary to generate CFD analyses. Will possess experience in building input decks, modifying existing codes, and running flow solver routines. 5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields 6) Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data 7) Experience in the fields of aerodynamics and flight mechanics as related to aircraft armament systems. Shall have experience in weapon free-stream aerodynamics, aircraft performance, and weapon loading and release. 8) Experience in the design test and evaluation of avionics sub systems on aircraft. Experience in test design and implementation for developmental or operational aircraft. Experience encompasses developmental or operational test and tactics development or systems engineering. Focus in avionics hardware/software (FCR, TFR, SMS, FLIR, ESM, CMDS, CNI, EW, DIRCM) and a tactical aircraft advanced stores (JSOW, SDB, WCMD, JDAM, JASSM, MALD); net centric support/systems infrastructures (SADL, LINK-16, FDL, JTIDS and or ASIP HBSS/MP-RTIP, MC2C,) or tactics and mission planning support systems (JMPS, AFMSS, Falcon View, PFPS, CWDS, PCDS, GWTS). 9) Experience in program management principles relating to schedule and financial performance. 				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	EN6	Senior Engineer IV		
EDUCATION				
Bachelor's Degree or equivalent experience required, with Master's and Ph.D. Degrees desired, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree.				
GENERAL EXPERIENCE				
16 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering principles. The senior engineer applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems. Reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation. Applies engineering experience to perform functions such as system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
<p>12 Years Specific Experience in monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. Senior engineer will specialize in one of the following areas:</p> <ol style="list-style-type: none"> 1) Experience in the application of dynamics, vibrations, and structures and knowledge of strength of materials, aerodynamics, numerical analyses, differential equations, matrix algebra, and programming. 2) Experience in aircraft stability and control theory. This shall include classical flight control theory and modern control theory, creating, modifying, and running computer simulation programs to evaluate aircraft aerodynamics or avionics. Additional experience shall be required in aircraft performance and aerodynamic analyses. The engineer shall be able to perform aircraft weight and balance calculations. 3) Experience in the separation of stores from aircraft. The engineer may have experience in developing, modifying, and running 6-DOF computer programs. The engineer shall have experience in interpretation of wind tunnel test and flight test data to determine safe store separation flight limits. 4) Experience in performing Computational Fluid Dynamics (CFD) analyses of aircraft/store configurations. This would include a working knowledge of CFD computer codes and techniques as well as pre and post processor tools developed specifically for CFD. The engineer shall have experience in creating and modifying 3-dimensional surface and volume grids necessary to generate CFD analyses. Will possess experience in building input decks, modifying existing codes, and running flow solver routines. 5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields 6) Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data 7) Experience in the fields of aerodynamics and flight mechanics as related to aircraft armament systems. Shall have experience in weapon free-stream aerodynamics, aircraft performance, and weapon loading and release. 8) Experience in the design test and evaluation of avionics sub systems on aircraft. Experience in test design and implementation for developmental or operational aircraft. Experience encompasses developmental or operational test and tactics development or systems engineering. Focus in avionics hardware/software (FCR, TFR, SMS, FLIR, ESM, CMDS, CNI, EW, DIRCM) and a tactical aircraft advanced stores (JSOW, SDB, WCMD, JDAM, JASSM, MALD); net centric support/systems infrastructures (SADL, LINK-16, FDL, JTIDS and or ASIP HBSS/MP-RTIP, MC2C,) or tactics and mission planning support systems (JMPS, AFMSS, Falcon View, PFPS, CWDS, PCDS, GWTS). 9) Experience in program management principles relating to schedule and financial performance. 				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	PM2	Program Manager II		
EDUCATION				
Bachelor's Degree required, with Master's and Ph.D. Degrees desired, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, or other related engineering or Physics degree. Postgraduate degree in business management discipline from an accredited college or university acceptable.				
GENERAL EXPERIENCE				
<p>20 years experience in general field of tasked effort. Minimum of 10 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of task principles.</p> <p>Additional 10 years acting as the lead engineer or manager for a contract effort. Experience serving as the primary interface and point of contact with Government program authorities and representatives on technical program/project and contract administration issues. Supervisory experience in program/project operations, developing technical and management procedures and controls, planning and directing project execution, monitoring, and reporting progress. Management acquisition employment of program/project resources experience. Manages and controls financial and administrative aspects of the program/project with respect to contract requirements. Capable of producing task level work through prior experience.</p>				
SPECIFIC EXPERIENCE				
A total of at least seven years of management and supervisory experience which includes performance of each of the foregoing functions with respect to technical program/projects. At least three years experience as a team leader or supervisor performing engineering management functions.				

POSITION DESCRIPTION				
SIN	NUMBER CODE	CLASS	SUB-DISCIPLINE	SPECIALTY
871	SME1	Subject Matter Expert (SME-1)		
EDUCATION				
SME- Bachelor's Degree required, with Master's and Ph.D. Degrees desired or 12+ years of specific experience, in Aeronautical, Aerospace, Electrical, Mechanical Engineering, Physics Degree or other related engineering experience.				
GENERAL EXPERIENCE				
20 Years general experience (Master's and Ph.D. Degrees count as experience) in the application of engineering, design or business principles. The SME can serve as the customer liaison, develop the specific outline of the project based on customer needs; applies engineering principles to investigate, analyze, plan, design, develop, implement, test and/or evaluate aircraft systems to ensure the project is proceeding as it should; reviews and prepares engineering and technical analyses, reports, change proposals, and other technical documentation; applies engineering experience to perform functions such as training syllabus and course production, system integration, configuration management, quality assurance testing, or acquisition and resource management. Assignments may involve complex test and evaluation of hardware and/or software related to engineering or functional requirements of military weapon system, associated support system, or management information systems.				
SPECIFIC EXPERIENCE				
12 Years Specific Experience in developing engineering models to achieve outstanding engineering products that meet or exceed customer requirements. This may include, but is not limited to, monitoring flight tests, reducing flight test data, and integration of ground and flight-test data to determine results. Engineering experience shall include use of linear algebra, ordinary and partial differential equations, and numerical methods. SME will specialize in two or more of the following areas:				
<ol style="list-style-type: none"> 1) Experience in the application of systems engineering principles to the planning, execution, analysis and reporting of the testing of complex systems of systems. 2) Experience in the testing of multiple tactical aircraft and weapons systems. Intimate knowledge of the avionics busses, on-board sub-systems and the communication between these systems to enable the analysis of performance and identification of anomalies based on system specifications. 3) Experience with a wide variety of air-to-air and air-to-ground weapons to include intimate knowledge of the communication between the aircraft and weapon. Deep understanding of MIL-STD-1553 and MIL-STD-1760A to include signal level and bit protocols. 4) Experience with the design and implementation of analysis software as applied to the testing of complex aircraft and weapons systems. The engineer shall have direct programming experience with a variety of analysis tools and computer programming languages to include MATLAB, DataProbe, Simulink, and Statistica. 5) Experience in performing professional engineering work in planning, analyzing, and testing as related to aircraft/weapon compatibility programs involving EMC/EMI. Shall have a working knowledge of transmission line theory and circuit analysis, expertise in microwave phenomenon, antennas, transmitters, and receivers in order to provide technical guidance on EMI effects due to Electromagnetic (EM) fields. 6) Shall have experience in reviewing engineering analyses, design specifications, regulations, test proposals, and flight test data. 7) Experience in the design, test and evaluation of specific specialty areas of avionics sub systems on aircraft such as passive and active defensive systems, navigation or targeting radar, CNI, mission planning, propulsion avionics, instrumentation conventional munitions, IAM munitions or other technologies. Experience in program management principles relating to schedule and financial performance shall be required. 8) Experience in a variety of Commercial Off The Shelf (COTS) and Government Off The Shelf (GOTS) software modeling tools and the analysis of simulation results. The engineer shall be capable of both running the models and interpreting the results. 				