



FEDERAL SUPPLY SERVICE
 AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST
 PROFESSIONAL ENGINEERING SERVICES
 FSC GROUP 87
 CLASS 871

- 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

PRIMARY DISCIPLINE: ELECTRICAL ENGINEERING

Contract Number: GS-23F-0127K

MacAulay-Brown, Inc.
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 Dayton, OH 45430
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 www.macb.com

- REVISION 1 Effective March 14, 2002 to incorporate escalated rates.**
- REVISION 2 Effective January 1, 2004 to include reduced IFF.**
- REVISION 3 Effective February 25, 2005 extends performance to June 1, 2005. (Base Period Year 5 rates remain in effect for this extension.)**
- REVISION 4 Effective June 2, 2005 extends performance to September 1, 2005. (Base Period Year 5 rates remain in effect for this extension.)**
- REVISION 5 Effective July 21, 2005 exercises Option period, extends performance to March 6, 2010 and authorizes Option pricing in contract.**
- REVISION 6 Effective August 5, 2009 to incorporate new labor categories and rates.**
- REVISION 7 Effective March 5, 2010 to incorporate Evergreen extension.**

Period Covered by Contract: March 7, 2000 through March 6, 2015
 Business Size: Large Business

Pricelist current through Refresh #12 dated July 1, 2009.

Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System. Agencies can browse GSA Advantage! by accessing the Federal Acquisition Service's Home Page via the Internet at <http://www.fss.gsa.gov/>



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1. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SINs)

SIN	DESCRIPTION	PAGE NO.
871-1/-1RC	STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS/ACTIVITIES	13
871-2/-2RC	CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS	14
871-3/-3RC	SYSTEM DESIGN, ENGINEERING AND INTEGRATION	15
871-4/-4RC	TEST AND EVALUATION	16
871-5/-5RC	INTEGRATED LOGISTICS SUPPORT	17
871-6/-6RC	ACQUISITION AND LIFE CYCLE MANAGEMENT	18

2. MAXIMUM ORDER: The maximum dollar value per order for all Professional Engineering Services will be \$750,000.00.

3. MINIMUM ORDER: The minimum dollar value per order will be \$100.00.

4. GEOGRAPHIC COVERAGE: The geographic scope of contract is the 48 contiguous states, the District of Columbia, Alaska, Hawaii, and the Commonwealth of Puerto Rico.

5. POINT OF PRODUCTION: Dayton, Ohio (Greene County)

6. STATEMENT OF NET PRICES: Prices shown herein are Net (discount already deducted).

7. QUANTITY DISCOUNTS: Negotiable for orders over the Maximum Order.

8. PROMPT PAYMENT TERMS: Net 30 days from receipt of invoice or date of acceptance, whichever is later. No discount for prompt payment.

9a. GOVERNMENT PURCHASE CARDS ARE ACCEPTED for payments equal to or less than the micropurchase threshold.

9b. GOVERNMENT PURCHASE CARDS ARE NOT ACCEPTED for payment above the micropurchase threshold.

10. FOREIGN ITEMS: None.



11a. TIME OF DELIVERY: The Contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below:

SPECIAL ITEM NUMBER	DELIVERY TIME (Days ARO)
871-1/-1RC	As agreed to by the ordering agency and the contractor
871-2/-2RC	As agreed to by the ordering agency and the contractor
871-3/-3RC	As agreed to by the ordering agency and the contractor
871-4/-4RC	As agreed to by the ordering agency and the contractor
871-5/-5RC	As agreed to by the ordering agency and the contractor
871-6/-6RC	As agreed to by the ordering agency and the contractor

11b. URGENT REQUIREMENTS: Contact Contractor directly for urgent requirements.

12. FOB DESTINATION within the 48 contiguous states.

13a. ORDERING ADDRESS:

MacAulay-Brown, Inc.
 4021 Executive Drive
 Dayton, OH 45430
 (937) 426-3421 Voice
 (937) 426-5364 Fax
 Vicki.summers@macb.com

13b. ORDERING PROCEDURES

See GSA/FSS Schedule homepage: FSS.GSA.GOV/Schedules

14. PAYMENT ADDRESS:

MacAulay-Brown, Inc.
 4021 Executive Drive
 Dayton, OH 45430
 (937) 426-3421 Voice
 (937) 426-5364 Fax

Bank account information for wire transfer payments will be shown on the invoice. The following telephone number(s) can be used by ordering agencies to obtain technical and/or ordering assistance: (937) 426-3421 Voice; (937) 426-5364 Fax.

15. WARRANTY PROVISION

Contractor’s standard commercial warranty.



- 16. **EXPORT PACKING CHARGES:** Not Applicable.
- 17. **TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ABOVE MICROPURCHASE LEVEL:** Not Applicable. See 9b above.
- 18. **TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR**
Not applicable.
- 19. **TERMS AND CONDITIONS OF INSTALLATION**
Not applicable.
- 20. **TERMS AND CONDITIONS FOR ANY OTHER SERVICES**
Not applicable.
- 21. **LIST OF SERVICE AND DISTRIBUTION POINTS**
Not applicable.
- 22. **LIST OF PARTICIPATING DEALERS**
Not applicable.
- 23. **PREVENTATIVE MAINTENANCE**
Not applicable.
- 24. **SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES**
Not applicable.
- 25. **DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER:** 09-650-0483
- 26. **CENTRAL CONTRACTOR REGISTRATION (CCR):** MacAulay-Brown, Inc. is registered in the DoD CCR database. CAGE Code is 4R389.
- 27. **RECOVERY PURCHASING**
The following SINSs are incorporated to include Recovery Purchasing. Clauses 552.238-76 Definition Federal Supply Schedules—Recovery Purchasing (FEB 2007) and 552.238-80 Use of Federal Supply Schedule Contracts by Certain Entities—Recovery Purchasing (FEB 2007) apply:
 - SIN 871-1
 - SIN 871-2
 - SIN 871-3
 - SIN 871-4
 - SIN 871-5
 - SIN 871-6



ATTACHMENTS:

- A. Contract SIN Descriptions**
- B. Contract Price List**
- C. Description of Labor Categories**
- D. Primary Engineering Disciplines**



ATTACHMENT A

CONTRACT SIN DESCRIPTIONS



871-1 STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS/ACTIVITIES

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

Example: The evaluation and preliminary definition of new and/or improved performance goals for navigation satellites – such as launch procedures and costs, multi-user capability, useful service life, accuracy and resistance to natural and man made electronic interference.

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

871-2 CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS

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

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

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



871-3 SYSTEM DESIGN, ENGINEERING AND INTEGRATION

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

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

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

871-4 TEST AND EVALUATION

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

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

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



871-5 INTEGRATED LOGISTICS SUPPORT

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

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

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

871-6 ACQUISITION AND LIFE CYCLE MANAGEMENT

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

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

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



ATTACHMENT B
CONTRACT PRICE LIST



NOTE: THE PRICES SHOWN ON THE FOLLOWING PAGES ARE NET (DISCOUNT DEDUCTED)

Other Direct Costs:

Priced by individual Task Orders; not included in labor rates.

Annual Escalation Factor: Prices shown below include escalation of 3% per year.



ATTACHMENT C

DESCRIPTION OF LABOR CATEGORIES



DESCRIPTION OF PROFESSIONAL ENGINEERING SERVICES (PES)

LABOR CATEGORIES AND QUALIFICATIONS OF PES PROFESSIONALS:

Commercial Job Title	Minimum Education	Functional Responsibility	Minimum/General Experience
Senior Program Manager	Masters degree and 18 years of experience; or a Bachelor’s degree and 22 years of work experience; or 25 years total experience.	Leads large projects with responsibility for achieving all technical, financial, and schedule objectives. Develops program plans, assigns tasking, monitors work progress, and reports status to Corporate Management. Serves as primary interface to the customer. Reviews and approves contract deliverables.	Must have 18 years of total experience. At least five (5) years of experience must have been at the project or program manager level. Projects must have been of sufficient magnitude to require participation by ten or more engineering, analyst, or technical personnel.
Senior Project Manager	Masters degree and 15 years of experience; or a Bachelors degree and 20 years of work experience; or 25 years total experience.	Leads large projects with responsibility for achieving all technical, financial, and schedule objectives. Develops program plans, assigns tasking, monitors work progress, and reports status to Corporate Management. Serves as primary interface to the customer. Reviews and approves contract deliverables.	Must have 15 years of total experience. At least five (5) years of experience must have been at the project manager level. Projects must have been of sufficient magnitude to require participation by three or more engineering, analyst, or technical personnel.
Principal Engineer/Analyst 2	PhD and 12 years of experience; or a Masters degree and 20 years of experience; or a Bachelors degree and 23 years of experience.	Provides consultative engineering and analysis expertise to programs. Provides overall engineering or analytical supervision on larger programs. May serve as project manager on smaller tasks.	Minimum of 12 years experience, at least ten (10) years of which must be in a technical field related to the task. Recognized as a Subject Matter Expert (SME) in their field.
Principal Engineer/Analyst 1	PhD and 10 years of experience; or a Masters degree and 18 years of experience; or a Bachelors degree and 22 years of experience.	Provides consultative engineering and analysis expertise to programs. Provides overall engineering or analytical supervision on larger programs. May serve as project manager on smaller tasks.	Minimum of 10 years experience, at least eight (8) years of which must be in a technical field related to the task. Recognized as a Subject Matter Expert (SME) in their community.
Senior Engineer/Analyst 3	Masters degree and 19 years of experience; or a Bachelors degree and 24 years of experience; or 27 years total experience.	Provides multi-disciplined engineering and analysis expertise to programs. Serves as principal technical contributor and supervisor on projects. Develops and plans program technical approach, resources, risks and monitors technical progress against those. May serve as project manager on some tasks.	Minimum of 15 years experience, at least ten (10) years of which must be in a technical field related to the task.
Commercial	Minimum	Functional	Minimum/General Experience



Job Title	Education	Responsibility	
Senior Engineer/Analyst 2	Masters degree and 17 years of experience; or a Bachelors degree and 22 years of experience; or 25 years total experience.	Provides multi-disciplined engineering and analysis expertise to programs. Serves as principal technical contributor and supervisor on projects. Develops and plans program technical approach, resources, risks and monitors technical progress against those. May serve as project manager on some tasks.	Minimum of 15 years experience, at least ten (10) years of which must be in a technical field related to the task.
Senior Engineer/Analyst 1	Masters degree and 15 years of experience; or a Bachelors degree and 20 years of experience; or 25 years total experience.	Provides multi-disciplined engineering and analysis expertise to programs. Serves as principal technical contributor and supervisor on projects. Develops and plans program technical approach, resources, risks and monitors technical progress against those. May serve as project manager on some tasks.	Minimum of 15 years experience, at least ten (10) years of which must be in a technical field related to the task.
Engineer/Analyst 4	Masters degree and 15 years of experience; or a Bachelors degree and 20 years of experience; or 25 years total experience.	Provides senior engineering and analysis expertise to programs. Serves as principal technical contributor on projects. Develops program technical plans, assigns and supervises technical resources and monitors technical progress and schedule. May serve as project manager on smaller tasks.	Minimum of 15 years experience, at least five (5) years of which must be in a technical field related to the task.
Engineer/Analyst 3	Masters degree and 10 years of experience; or a Bachelors degree and 15 years of work experience; or 20 years total experience.	Provides senior engineering and analytical expertise to programs. Serves as individual contributor and/or lead engineer/analyst on system/software design, analysis, integration, and testing projects. Develops technical plans, supervises resources, and monitors technical progress and schedule. Prepares/reviews program documentation	Minimum of 10 years experience, at least three (3) years of which must be in a technical field related to the task.
Engineer/Analyst 2	Masters degree and 5 years of experience; or a Bachelors degree and 8 years of work experience; or 15 years total experience.	Provides senior engineering and analytical expertise to programs. Serves as individual contributor and/or lead engineer/analyst on system/software design, analysis, integration, and testing projects. Prepares/reviews program documentation. May supervise other engineers and technical staff members.	Minimum of 5 years of experience, at least two (2) years of which must be in a technical field related to the task.



Commercial Job Title	Minimum Education	Functional Responsibility	Minimum/General Experience
Engineer/ Analyst 1	Masters degree and one (1) year of experience; or a Bachelors degree and three (3) years of work experience	Provides engineering and analytical support to projects. Serves as individual contributor on system/software design, studies and analysis, modeling/simulation, integration, and testing tasks. Prepares program documentation.	Minimum of 1 to 3 years experience depending on the level of education.
Apprentice Engineer/ Analyst	Must have a Bachelors degree	Provides engineering and analytical expertise as individual contributor on system/ software design, modeling/ simulation, integration, and testing tasks.	Minimum of 6 months experience.
Senior Technician 4	Bachelor's degree and fifteen (15) or a minimum of twenty (20) years of field training or experience.	Provides engineering, analytical, or management support to projects. Leads and performs project tasks involving hardware design/assembly, systems integration, studies and analysis, systems acquisition and test, project management, and documentation.	Minimum of fifteen (15) years of experience with bachelor's degree or 20 years with no degree.
Senior Technician 3	Bachelors degree and ten (10) or a minimum of fifteen (15) years of field training or experience	Provides engineering, analytical, or management support to projects. Leads and performs project tasks involving hardware design/assembly, systems integration, studies and analysis, systems acquisition and test, project management, and documentation.	Minimum of ten (10) years of experience with bachelor's degree or 15 years with no degree.
Senior Technician 2	Bachelors degree and five (5) or a minimum of twelve (12) years of field training or experience	Provides engineering, analytical, or management support to projects. Leads and performs project tasks involving hardware design/assembly, systems integration, studies and analysis, systems acquisition and test, project management, and documentation.	Minimum of five (5) years of experience with bachelor's degree or 12 years with no degree.
Research Associate/ Senior Technician	Bachelors degree or a minimum of ten (10) years of field training or experience	Provides engineering, analytical, or management support to projects. Leads and performs project tasks involving hardware design/ assembly, systems integration, studies and analysis, systems acquisition and test, project management, and documentation.	Minimum of five (5) years of experience with bachelor's degree or 10 years with no degree.
Senior Administrative Support 2	High School Diploma/GED	Prepares program documentation, briefings, using word processing, spreadsheet, and graphics presentation software. Edits and reviews technical documentation and data deliverables.	Must have a minimum of twelve (12) years of experience in preparation of technical documentation and general administrative support.
Commercial	Minimum	Functional	Minimum/General Experience



Job Title	Education	Responsibility	
Senior Administrative Support	High School diploma	Prepares program documentation, briefings, using word processing, spreadsheet, and graphics presentation software. Edits and reviews technical documentation and data deliverables.	Must have a minimum of eight (8) years of experience in preparation of technical documentation and general administrative support.
Technical Support Specialist 3	Bachelors degree or a minimum of eight (8) years of field training or experience	Provides technical, management, and analytical support to project tasks. Plans, organizes and assists on project efforts. May be project leader on small tasks	Minimum of three (3) years of experience with degree. Minimum of eight (8) years of experience with no degree.
Technical Support Specialist 2	Associates degree and two (2) years of experience or five (5) years of field training or experience	Provides engineering, management, and analytical support to the project technical and management personnel. Plans, organizes and assists on project efforts.	Minimum of two (2) years of experience with Assoc. degree or five (5) years of field training or experience with no degree



ATTACHMENT D

PRIMARY ENGINEERING DISCIPLINES



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 discipline, there are several specialties within the scope of this work in which MacAulay-Brown, Inc. (MacB) has a strong background:

- Aerospace and Electronic Systems
- Lasers and Electro-Optics
- Communications
- Signal Processing
- Instrumentation and Measurement Microwave Theory and Techniques
- Electromagnetic Compatibility
- Computer Systems

MacB has expertise in Electronic Warfare (EW) systems, Information Warfare (IW), reconnaissance/intelligence, advanced avionics and weapons systems, applied human factors, computer networks and software development. MacB provides technical services in the following areas: engineering studies and analyses; test and evaluation; program/acquisition management and logistics; computer modeling/simulation; information systems design; and one-of-a-kind prototype design and simulation hardware and software development.