

**GENERAL SERVICES ADMINISTRATION (GSA) "PROFESSIONAL ENGINEERING SCHEDULE" (PES)
 CONTRACT: GS-23F-0065N
 LOUISIANA CENTER FOR MANUFACTURING SCIENCES**

Contractor: **Louisiana Center for Manufacturing Sciences** (DUNS # 037267510)
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SINS 871-1 (871-1 RC), 871-2 (871-2 RC), 871-3 (871-3 RC), 871-4 (871-4 RC), 871-5 (871-5 RC), 871-6 (871-6 RC) (Applies to Each Labor Category Listed Below)

Labor Category	11/12/2012	11/12/2013	11/12/2014	11/12/2015	11/12/2016
	11/11/2013	11/11/2014	11/11/2015	11/11/2016	11/11/2017
Sr. Engineer/Analyst 10	\$247.28	\$247.28	\$247.28	\$247.28	\$247.28
Sr. Engineer/Analyst 9	\$223.87	\$223.87	\$223.87	\$223.87	\$223.87
Sr. Engineer/Analyst 8	\$182.98	\$182.98	\$182.98	\$182.98	\$182.98
Sr. Engineer/Analyst 5	\$143.57	\$146.87	\$150.25	\$153.70	\$157.24
Sr. Engineer/Analyst 2	\$110.67	\$113.21	\$115.82	\$118.48	\$121.21
Sr. Engineer/Analyst 1	\$106.86	\$109.32	\$111.83	\$114.41	\$117.04
Engineer/Analyst 2	\$83.82	\$85.75	\$87.72	\$89.74	\$91.81
Engineer/Analyst 1	\$49.61	\$50.75	\$51.91	\$53.11	\$54.33
Administrative Support 1	\$51.08	\$52.25	\$53.46	\$54.68	\$55.94

LOUISIANA CENTER FOR MANUFACTURING SCIENCES HAS EXPERTISE UNDER THE FOLLOWING AREAS:

- SIN 871-1 STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS
- 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

SIN 871-1 STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS

- Strategic Business Mission and Action Planning
- Performance Requirements Metrics and Analysis
- Process and Productivity Improvement
- Program Evaluations and Analysis
- Organizational Assessments, Special Studies and Analysis
- Cycle Time Improvements
- Lean Assessment and Recommendations

SIN 871-2 CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS

- Concept Studies, Analysis Preliminary Planning Support
- Engineering Cost Performance Feasibility Analysis, Focused Decision-Making
- Technology System Specifications Development or Enhancement
- Requirements Definition for Mission Planning Activities
- Preparation of Compliance Metrics

SIN 871-3 SYSTEM DESIGN, ENGINEERING AND INTEGRATION

- Defining Performance Risk Assessments
- System/Subsystem/Program/Project Detailed Design
- Identification/Analysis/Migration of Component Design
- Production Prototyping Modeling, CAD-CAM System Design Development
- Document control, Fabrication, Assembly and Simulation

SIN 871-4 TEST AND EVALUATION

- Prototype Testing, Evaluation, First Article Testing and Reporting
- Program Verification and Validation, Reverse Engineering Project Oversight
- System Safety Review, Quality assurance, Physical testing
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SIN 871-5 INTEGRATED LOGISTICS SUPPORT

- Analysis, Planning Detailed Design of Logistics Tasking
- Life Cycle Support per Materials, Personnel Identification Requirements, Operational Maintenance and Repair and Replacement of Systems
- Feasibility Analysis, Logistics Planning, Requirements Analysis
- Policies Standards/Procedures Development, Long Term Maintainability, Reliability, Training

SIN 871-6 ACQUISITION AND LIFE CYCLE MANAGEMENT

- Planning, Budgeting, Contract and Systems/Program Management Tasking Execution
- Procure/Produce/Provide Operational Life Cycle Support
- Configuration Management, Reliability Analysis Support
- Operations and Maintenance, Program/Project Management Support
- Technology Transfer and Insertion

Maximum Order: \$1,000,000 Minimum Order: \$100

Geographic Coverage: Domestic

Points of Production: Not Applicable

Discounts from List Price: Not Applicable

Quantity Discounts: One Per Cent Discount per Individual Order of 50,000 or More Labor Hours

Prompt Payment Terms: Net 30 days

Government Purchase Cards: Accepted for Orders Less than or Greater than Micro-Purchase Threshold

Time of Delivery: From date of award to date of completion

Warranty: Not Applicable

LOUISIANA CENTER FOR MANUFACTURING SCIENCES – POSITION DESCRIPTIONS

Experience, Responsibilities, and Education

Labor Category: Senior Engineer/Analyst 10

Qualifications: Masters Degree or equivalent and 8 years of general experience*

Responsibilities: Makes decisions and recommendations that are recognized as authoritative and have a far-reaching impact. Provides a high level of creativity, foresight, and mature judgment in planning, organizing, and guiding engineering and technical programs. Expert knowledge of principles, concepts, and techniques. May act as in a supervisory capacity or as an individual researcher or both. Responsible for engineering and technical projects of higher complexity than those normally assigned to lower level engineers or analysts.

Labor Category: Senior Engineer/ Analyst 9

Qualifications: Masters Degree or equivalent and 7 years of general experience*

Responsibilities: Makes decisions and recommendations that are recognized as authoritative and have a far-reaching impact. Provides a high level of creativity, foresight, and mature judgment in planning, organizing, and guiding engineering and technical programs. Expert knowledge of principles, concepts, and techniques. May act as in a supervisory capacity or as an individual researcher or both. Responsible for engineering and technical projects of higher complexity than those normally assigned to lower level engineers or analysts.

Labor Category: Senior Engineer/Analyst 8

Qualifications: Master s Degree or equivalent and 6 years of general experience*

Responsibilities: Makes decisions and recommendations that are recognized as authoritative and have a far-reaching impact. Provides a high level of creativity, foresight, and mature judgment in planning, organizing, and guiding engineering and technical programs. Expert knowledge of principles, concepts, and techniques. May act as in a supervisory capacity or as an individual researcher or both. Responsible for engineering and technical projects of higher complexity than those normally assigned to lower level engineers or analysts.

Labor Category: Senior Engineer/Analyst 5

Qualifications: Bachelor s Degree or equivalent and 8 years of general experience*

Responsibilities: Has full technical responsibility for interpreting, organizing, executing, and coordinating assignments. Plans and develops engineering and technical projects by exploring subject areas, defining scopes for investigation, and developing approaches. Usually requires extensive progressive experience. May act in a supervisory capacity, as an individual worker, or as a staff specialist. Responsible for engineering and technical projects of higher complexity than those normally assigned to lower level engineers or analysts.

Labor Category: Senior Engineer/Analyst 2

Qualifications: Bachelor s Degree or equivalent and 5 years of general experience*

Responsibilities: Competent in all conventional aspects of the subject matter and functional area the assignments. Plans and conducts work requiring adaptation and modification of standard techniques, procedures, and criteria Work requires broad knowledge of several engineering or technical areas and good knowledge and practices of related specialties. Responsible for engineering and technical projects of higher complexity than those normally assigned to lower level engineers or analysts.

Labor Category: Senior Engineer/Analyst 1

Qualifications: Bachelor s Degree or equivalent and 4 years of general experience*

Responsibilities: Competent in all conventional aspects of the subject matter and functional area the assignments. Plans and conducts work requiring adaptation and modification of standard techniques, procedures, and criteria Work requires broad knowledge of several engineering or technical areas and good knowledge and practices of related specialties. Responsible for engineering and technical projects of higher complexity than those normally assigned to lower level engineers or analysts.

Labor Category: Engineer/Analyst 2

Qualifications: Bachelor s Degree or equivalent and 2 years of general experience*

Responsibilities: Performs assignments designed to develop professional knowledge and abilities, requiring application of standard techniques, procedures, and criteria in carrying out engineering or technical tasks. Responsibilities include engineering and technical research, site surveys, system audits, and checklists.

Labor Category: Engineer/Analyst 1

Qualifications: H. S. Degree or equivalent and 30 hours of courses and/or 0-1 year of general experience*

Responsibilities: This is the entry level for professional work Performs assignments designed to develop professional knowledge and abilities, requiring application of standard techniques, procedures, and criteria in carrying out engineering or technical tasks. Responsibilities include engineering and technical research, site surveys, system audits, and checklists.

Labor Category: Administrative Support

Qualifications: H.S. Degree or 1 year of general experience*

Responsibilities: Assists management in all business, cost containment, and accounting activities. Assists management in office administration, contract administration, and facility operation activities. Responsible for providing cost control advice to other managers. Supervises subordinate administrative and office staff.

**Education may be substituted for general experience: Formal education resulting in a Bachelor s, Master s or Ph.D. degree may be substituted as the equivalent of four (4) years of experience for each degree earned Experience may be substituted for formal education: Four (4) years of experience in a related field or discipline may be substituted for a Bachelors degree. Eight years of experience in a related field or discipline may be substituted for a Masters degree. Pursuant to the Terms and Conditions of the order, the ultimate determination and acceptance of a proposed individual for performance under a specific effort rests with the Client.*

The "LOUISIANA CENTER FOR MANUFACTURING SCIENCES" (LCMS) Mission:

Develop, demonstrate, integrate, validate technological innovations to improve manufacturing, and to assist in the implementation of technological innovations. Encourage collaboration between Commercial companies and the DoD or other Government agencies performing research and development and/or improvements of product Life Cycle support.

Serve as a knowledge engineering repository that offers a wide range of solutions from manufacturing process engineering, materials tracking, life cycle management, systems design, process improvement and supply chain management to training, software development and information technology.

Provide technical engineering discipline support, program management services including financial management, subcontract management, technical management, and administrative support as follows:

- Administrative/ Documentation Specialists
- Biologists
- Chemists
- Consultants
- Documentation specialists
- Economists
- Engineering and Technical Analysts
- Naval architects
- Physicists
- Scientists
- Configuration Data Support
- Trainers
- Material Management/Engineers and Technical Area Specialists
- Operations research specialists
- Project/program analysts/ leaders/managers
- Statisticians/mathematicians
- Technicians

Professional Engineering Disciplines Applicable to All Labor Categories and All Hourly Rates

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.).

ASME Heat Transfer/K16

Advanced Energy Systems

Aerospace Engineering

Applied Mechanics

Bioengineering

Design Engineering

Dynamic Systems and Control

Electrical and Electronic Packaging

Fluids Engineering

Fluids Power Systems and Technology Systems

Information Storage and Processing Systems

Fuels and Combustion Technologies

Internal Combustion Engine

Heat Transfer

International Gas Turbine

Materials

Manufacturing Engineering

Microchannel flow and heat transfer

Management Materials Handling Engineering

Noise Control and Acoustics

Nuclear Engineering

Offshore Mechanics and Arctic Engineering

Power

Rail Transportation

Technology and Society

Petroleum

Pressure Vessels and Piping

Safety Engineering and Risk Analysis

Textile Engineering

Plant Engineering and Maintenance

Process Industries

Solar Energy

Tribology

Other Mechanical Engineering Specialties not listed in the Services not Included Paragraph.

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; a partial listing follows:

Aerospace and Electronic Systems	Intelligent Transportation Systems
Antennas and Propagation	Lasers & Electro-Optics
Broadcast Technology	Magnetics
Circuits and Systems	Microwave Theory and Techniques
Communications	Neural Networks Council
Components Packaging, and Manufacturing Technology	Oceanic Engineering
Computer	Power Electronics
Consumer Electronics	Power Engineering
Dielectrics and Electrical Insulation Control Systems	Professional Communication
Education	Reliability
Electromagnetic Compatibility	Robotics & Automation
Engineering Management	Signal Processing on Social Implications of Technology
Geoscience & Remote Sensing	Solid-State Circuits
Industrial Electronics	Systems, Man, and Cybernetics
Industry Applications	Ultrasonics, Ferroelectrics, and Frequency Control
Information Theory	Vehicular Technology
Instrumentation and Measurement	Other Electrical Engineering Specialties not listed in the Services not Included Paragraph.

Civil Engineering – It includes, but is not limited to, planning, evaluation, operations, production, furnishing, construction, alteration, repair, processing or assembling of vessels, aircraft, or other kinds of personal property, including heating, ventilation and air conditioning for such vessels and/or aircraft. Within the civil engineering discipline, there are several specialties within the scope of this work; a partial listing follows:

Geotechnical	Other Civil Engineering Specialties not listed in the Services not Included Paragraph.
Surveying	

Other Engineering Tasking Support:

Acquisition and life cycle management	Assessment Support
Analysis of program goals, mission, objectives, performance	Computer Aided Design (CAD)
	Computer Aided Engineering (CAE)

Computer Aided Management (CAM)
Concept Development
D&D (decontamination and decommissioning)
Demonstration and Validation
Design/Specifications
Documentation and Information Dissemination
Economic impact evaluations
Economic/Business case analysis
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
Long-term Reliability and Maintainability
Migration Strategy
National Academy of Sciences studies
O&M (operation and maintenance)
Operations Research (Non R&D)
Permitting and Licensing

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