

## Press Release

# Enser receives GSA contract to sell to the Federal Government

Cinnaminson, NJ – May 1, 2006 ENSER is proud to announce the awarding of General Services Agreement (GSA) contract # GS-23F-0168S. This contract has been in process for the last 2 years and is a significant success story for the Enser Federal Government team. Below is a brief breakdown of what this contract entails;

### **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.).

<b>SIN 871-1</b>	<b>STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS/ACTIVITIES</b>
<b>SIN 871-2</b>	<b>CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS</b>
<b>SIN 871-3</b>	<b>SYSTEM DESIGN, ENGINEERING AND INTEGRATION</b>
<b>SIN 871-4</b>	<b>TEST AND EVALUATION</b>
<b>SIN 871-5</b>	<b>INTEGRATED LOGISTICS SUPPORT</b>
<b>SIN 871-6</b>	<b>ACQUISITION AND LIFE CYCLE MANAGEMENT</b>

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

- Acquisition and life cycle management
- Analysis of program goals, mission, objectives, performance
- Assessment Support
- Computer Aided Design (CAD)
- Computer Aided Engineering (CAE)
- Computer Aided Management (CAM)
- Concept development
- D&D (decontamination and decommissioning)
- Demonstration and Validation
- Design/Specifications of engineering nature not associated with real property
- Documentation and Information Dissemination
- Economic/Business case analysis
- Economic impact evaluations
- Education/training
- Environmental control for electrical units (e.g., cooling units)
- Forensic engineering
- Independent Verification and Validation (IV&V)
- Information services (studies, impact statements, program development, project documentation, data collection, data analysis/evaluation, etc.)

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- Instrumentation
- Integration
- Investigative Engineering Service
- Life Cycle Costing
- Logistics
- Long-term Reliability and Maintainability
- Migration Strategy
- National Academy of Sciences studies
- Operations Research (Non R&D)
- Plan, organize, establish, implement, manage, maintain, upgrade and control of technical systems
- Privatization
- Program and Project management
- Prototype development and first article(s) production
- Radar/Sonar
- Regulatory compliance support
- Reliability and Maintainability Analysis
- Reverse engineering
- Signal processing
- Simulation and modeling
- Source data development (forward engineering hardware and software systems)
- Source data validation (existing hardware and software systems)
- Special projects and studies
- Statistical analysis
- Support services
- Systems engineering data base development, maintenance, and analysis
- Technical analysis
- Technical and management support
- Technical writing/editorial support

T&E (test and evaluation) of products and systems

The Professional Engineering Services Solicitation contains six Special Item Numbers (SINs), which are arranged to follow the specific developmental phases of any project. The six SINs are as follow:

## **SIN 871-1 STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS/ACTIVITIES**

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

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

Architect-Engineering (A/E) Services as that term is defined in [FAR 36.601-3](#) are excluded from the PES Schedule. If the agency's statement of work, substantially or to a dominant extent, specifies performance or approval by a registered licensed architect or engineer for services related to real property, the Brooks Architect-Engineers Act applies and such services must be procured in accordance with FAR Part 36. Use of this schedule for Brooks Act architectural or engineering services is not authorized. Inappropriate use of this SIN is providing professional engineering services not specifically related to strategic planning for technology programs/activities and associated disciplines.

## **SIN 871-2 CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS**

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

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

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## **SIN 871-3            SYSTEM DESIGN, ENGINEERING AND INTEGRATION**

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

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

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

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

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

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## **SIN 871-5            INTEGRATED LOGISTICS SUPPORT**

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

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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.

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

Services required under this SIN involve all of the planning, budgetary, contract and systems/program management execution 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 (including, but not limited to, construction 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.

Architect-Engineering (A/E) Services as that term is defined in [FAR 36.601-3](#) are excluded from the PES Schedule. If the agency's statement of work, substantially or to a dominant extent, specifies performance or approval by a registered or licensed architect or engineer for services related to real property, the Brooks Architect-Engineers Act applies and such services must be procured in accordance with FAR Part 36. Use of this schedule for Brooks Act architectural or engineering services is not authorized. Inappropriate use of this SIN is professional engineering services not specifically related to acquisition and life cycle management and associated disciplines.