

Capabilities Statement



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Services

Applied Solutions, Inc. (ASI) is a small woman owned information systems consulting firm headquartered in Reston, Virginia. ASI was incorporated in the Commonwealth of Virginia in 1993, and is also licensed in Maryland and the District of Columbia.

ASI employs talented database and software engineers dedicated to satisfying our customer's requirement for technologically innovative solutions to their information processing needs. ASI specializes in database design and implementation, development of database applications, requirements analysis, data conversion, and system interoperability. We also provide support in the areas of: data storage management; performance analysis and metrics; information technology architecture support; and system and software design, development, engineering and integration.

ASI has a policy of adhering to established government and industry standards on all work performed for internal and external customers. As part of its focus on standards adherence, quality of work products, and consistency of work across projects, ASI is assessed at CMMI levels 2. Due to this focus, ASI has established the necessary policy and procedures requires that its mangers adhere to those policies and procedures on ASI internal projects and, to the extent possible, on external projects.

ASI has the requisite past and current experience along with the knowledge required to provide technical expertise to clients in government and industry in the areas of global information systems, software engineering, software life cycle management, information architecture analysis, and internet system architecture support. We also offer database-based software products that have aided our customers in meeting their human resource and project management needs. Our engineering staff has extensive experience with a variety of database management systems (DBMSs) and web and software development technologies including SQL, Sybase™, Oracle®, Microsoft® SQL Server, Microsoft Access®, C/C++, Java™, XML, and J2EE.

ASI is the holder of GSA Schedule 70 contract number GS-35F-0617P. ASI is also a subcontractor on the Diescon 3, ENCORE, SeaPort-e, and CIO-SP2i contract vehicles. ASI is also a prime contractor on SeaPort-e.

Assessed CMMI Level 2

ASI uses three NAICS codes:

- **541511** – Custom Computer Programming Services
- **541512** – Computer System Design Services
- **541519** - Other Computer Related Services

Other technologies that ASI has experience with which are relevant to software and web development include: JavaServer Pages™, ASP, HTML, Macromedia Flash™ and Dreamweaver® Technologies; JavaScript™ and Visual Basic® Development Languages; Cognos® Business Management Tool; and Microsoft® Windows Server™ and UNIX® Operating Environments.

Over Ninety-five percent of ASI's employees currently hold security clearances.

Current & Past Performance

Some of the organizations that Applied Solutions, Inc. has worked with as a prime or sub-contractor include, but are not limited to, the following:

- Department of Defense
- Department of State
- Federal Bureau of Investigation
- Department of Transportation
- Department of Energy
- Lockheed Martin
- Northrop Grumman
- Sytel, Inc.
- S4, Inc.
- CSC
- BAE
- Clemson University
- HDR Engineering
- DeLeuw Cather

Current Performance

DEFENSE COUNTERINTELLIGENCE INFORMATION SYSTEM

Project Description: ASI currently provides support to the Counterintelligence Field Activity's (CIFA's) Defense Counterintelligence Information System (DCIIS) Program Management Office (PMO). The DCIIS PMO is supporting Department of Defense (DoD) Services and Agencies by providing centralized support for functional counterintelligence (CI) requirements through the Portico application. Tasks supported by ASI include:

- Cleaning and converting legacy data from a variety of intelligence and CI sources to more useful relational database formats. Our data sources include XML documents, database table dumps and formatted text files. The target database is Portico, which is hosted at the Defense Counterintelligence Data Center (DCIDC). As part of our effort, ASI has built standard XML schemas for the CI community.
- Developing detailed functional and system requirements documentation to provide a solid basis for design, development, testing and implementation of the Portico application.
- Developing requirements traceability matrices to track requirements through the software development lifecycle.
- Assisting in the testing of Portico application.
- Developing reports to support performance metrics using the Cognos® business management tool and Oracle query and reporting capabilities.
- Providing configuration management support for Portico software, documentation, and data.
- Developing the web-based BioLink application, a separate application that maintains CI information in the Portico environment and is accessible by a wide variety of DoD and non-DoD government users.

COMMUNITY ON-LINE INTELLIGENCE SYSTEM FOR END USERS AND MANAGERS (COLISEUM) FOR THE DEFENSE INTELLIGENCE AGENCY (DIA)

Project Description: ASI currently provides support for the design, development, testing and maintenance of a report workflow management system with over 3000 users worldwide called the Community On-Line Intelligence System for End Users and Managers (COLISEUM). The use of COLISEUM facilitates registering and tracking intelligence production requirements, reduces redundant intelligence production, and allows all COLISEUM users to take advantage of COLISEUM capabilities for researching and managing intelligence production activities.

ASI provides planning and implementation of distributed, replicated database servers. ASI staff is responsible for the design and implementation of Sybase Replication services to maintain multiple real-time copies of the database, database administration, and software design and development implemented by software components developed in Java™, JavaScript™, JavaServer Pages™, HTML, UNIX® shell script and SQL. ASI also supports COLISEUM DBMS services, provided by Sybase™ Adaptive Server™ Enterprise (ASE) and Sybase™ Replication Server™, responsible for managing a concurrent and consistent COLISEUM database across multiple COLISEUM servers.

Past Performance

NATIONAL AREA COVERAGE DATA FILES (NACDF) 6 MODERNIZATION

Project Description: ASI provided technical support for the DoD project named National Area Coverage Data Files (NACDF). The project was a modernization development effort, which resulted in the incremental movement of a large legacy IDMS database on an IBM® mainframe to a Sybase™ SQL Server™ database on a Sun™/Solaris™ platform. ASI's efforts included design of the system architecture that included the Vision International Spatial Query Server which provided geospatial data management and query functions to SQL server. The system architecture incorporated a web-based application server that provided authorized users database query and maintenance via a web server. The design was a Netscape® LiveWire Pro™ application, using JavaScript™ and C for the server software.

FEDERAL ENERGY REGULATORY COMMISSION ITOP RFP

Project Description: ASI provided technical support to Computer Sciences Corporation (CSC) for a proposal in response to an Information Technology Omnibus Procurement (ITOP) RFP by the Federal Energy Regulatory Commission (FERC) for Automated Data Processing and Telecommunications Support Services. Responsibilities included: strategy development; contributing knowledge of operating environments, customer personnel, customer issues and concerns; supporting technical solution development; and participating in reviews.

IDENTIFICATION TASKING AND NETWORKING/ FEDERAL BUREAU OF INVESTIGATION (ITN/FBI) PROGRAM

Project Description: ASI supported Planning Research Corporation (PRC/Northrop Grumman) in providing requirements analysis and conceptual and logical design during the preliminary design of the ITN/FBI program. Responsibilities included the creation of a list of data elements, entity-relationship diagrams, relation table layouts, and the database specifications for the Network and Segment Management, and Storage and Retrieval portions of the ITN/FBI program. ASI successfully performed requirements analysis and conceptual and logical design on the ITN and Network Security Manager (NSM) segments of the ITN database as part of the preliminary design of ITN. Work was performed on HP/UNIX® platforms using the Cadre Teamwork CASE tool. The target DBMS for the ITN/FBI program was Sybase™.

AIRES LIFE EXTENSION (ALE)

Project Description: ASI provided support to a number of contractors, including CSC and PRC/Northrop Grumman, for the Defense Intelligence Agency (DIA) project entitled Aires Lifecycle Extension (ALE). Responsibilities included system architecture, software, database, configuration management, documentation and customer support.

UNION PACIFIC AND SOUTHERN PACIFIC RAILROADS MERGER, NORFOLK SOUTHERN AND CSX RAILROADS MERGER WITH CONRAIL, AND CANADIAN NATIONAL AND ILLINOIS CENTRAL RAILROADS MERGER

Project Description: ASI successfully designed, developed, and implemented a Microsoft® Access relational database to track and report on all merger-related documents, correspondence, telephone conversations, and environmental analyses affected by the merger of the Union Pacific/Southern Pacific railroads. The primary purpose of the database was to provide an accurate record of all information relating to the preparation of an Environmental Assessment pertaining to the merger. The database was developed as a client/server application capable of supporting five or more concurrent users run over a LAN. Upon delivery of the database, ASI maintained a staff of from one to six people populating and maintaining the database at the Surface Transportation Board (STB) (originally the Interstate Commerce Commission), which is a part of the Department of Transportation (DOT). As the size and criticality of the database increased, database administration activities included performance tuning, implementation of security features, and frequent database backups. ASI's on-site personnel also provided administrative support to STB's Environmental Analysis Section. On the following mergers involving the and Norfolk Southern/CSX/CONRAIL railroads and Canadian National/Illinois Central railroads, ASI supplied its Merger Database and technical consulting support to aid in the processing of merger-related information.

INFODATA CORPORATION – VIRTUAL FILE CABINET

Project Description: ASI provided requirements analysis and review, design and development of Infodata's product, Virtual File Cabinet (VFC). The database management systems used in the development of VFC were Microsoft® SQL Server™ and Oracle®, with software developed in C/C++.

Products

Applied Solutions, Inc. creates innovative software products that are designed in a modular fashion so that they can be readily configured to meet the specific needs of each customer. It is not necessary for our customers to purchase unneeded capabilities that come bundled with the functions they really require. ASI's documentation and training are also modular so that they can be tailored to precisely match the delivered software.

RESTRIEVE®

RESTRIEVE® is an advanced applicant and skills tracking system combined with résumé generation, human resource management and project management capabilities. It provides a unique combination of features, such as project costing and true custom résumé and project abstract generation, not found in any other product.

PLACEMENT WIZARD®

PLACEMENT WIZARD® is an advanced skills tracking and résumé management system that is designed to satisfy the specific needs of college and university placement offices and cooperative education programs. The program stores detailed information about employers and their job openings, and matches students to job openings that require specific education and job experience backgrounds. In addition, PLACEMENT WIZARD® generates customized résumés to submit to employers, schedules and tracks interviews and job offers, and generates form letters populated with pertinent student and employer information.

Product Past Performance

KPMG PEAT MARWICK – RESTRIEVE® DATABASE

Project Description: Applied Solutions, Inc. built a human resource and project management system, RESTRIEVE® that was used nationwide by one on KPMG's consulting practices. KPMG PEAT Marwick sponsored the first release of the product, which was developed using Microsoft® Access and Visual Basic® for Applications (VBA). The trademark and copyright for the RESTRIEVE® software are held by ASI.

CLEMSON UNIVERSITY – PLACEMENT WIZARD®

Project Description: ASI developed a program for universities to match cooperative education and graduating students with jobs based on their educational background and work experience. The application allows posting and management of job openings and employer information, and provides students an easy way to create resumes in multiple formats. Clemson University is our major client. PLACEMENT WIZARD® was developed using Microsoft® Access and VBA. A new version of PLACEMENT WIZARD® is now being developed using Java™ and XML to allow the program to be accessible via the web. The trademark and copyright for the PLACEMENT WIZARD® software are held by ASI.

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