



**5203 Leesburg Pike Suite 901
Falls Church, VA 22041
www.ksj.us**

Position	Senior Systems Engineer
Position Description	<p>Provides advanced technology, architecture, and integration consulting services to Government program and project managers Works as part of Integrated Product Teams (IPTs) with systems engineers, integration engineers, developers, security engineers, requirements analysts, information engineers, and system architects to support overall engineering management and integration of DoD Military Health System (MHS) and Veteran’s Administration systems and applications using open standards and modern technologies, architecture, and design principles. Supports migration of MHS systems toward a Service Oriented Architecture (SOA) through use of an Enterprise Service Bus (ESB), Virtualization, thin-client computing and other technologies centered around the Electronic Health Record (EHR) and other systems and applications. Should be well versed in Project Management principles surrounding Engineering activities for complex system development and sustainment. Key responsibilities may include:</p> <ul style="list-style-type: none"> • Leading and conducting technical Analyses of Alternatives (AoAs) • Providing senior technical consulting services for health care information systems and supporting infrastructure in support of large scale federal or DoD enterprises • Management of engineering services during all phases of the system lifecycle • Assist in the administration of a risk management program for projects according to the overall Risk Management Plan. • Monitor and evaluate contract deliverables (e.g., SRR, PDR, Critical Design Reviews, etc.) for technical contract compliance. • Participate, lead, and/or support IT strategic and tactical planning • Develop project plans, concepts of operations, and other technical and programmatic plans, strategies and approaches • Conduct technical analysis of complex issues, challenges, and problems, and develop executive level and detailed recommendations. • Develop papers and presentations and deliver presentations to senior leadership • Define and manage project resources, and provide general project monitoring. • Coordinate with other DoD organizations, to include conducting briefings and product orientations. • Develop or assist in the development of system architectures and designs. • Support lifecycle systems engineering processes • Assist project teams and associated vendors with resolving technical project issues. • Lead tiger teams and conduct root cause analyses to address technical issues or problems in all system lifecycle phases, including design, development, and particularly sustainment operations.

Desired Experience

Minimum of 15 years relevant technical experience with a Bachelor's Degree, 12 years experience with a Masters Degree, or 10 years relevant experience with a Ph.D. in information systems, computer science, systems engineering or other technical disciplines. Must be experienced with and familiar with current research and/or standards in at least five of the following technology standard areas: Service Oriented Architecture (SOA), Service Oriented Infrastructure (SOI), Enterprise Service Bus (ESB), Enterprise Application Integration (EAI), capacity planning, performance modeling and simulation, system architecture and design, client server computing, cloud computing, virtualization, blade server technologies, advanced storage array technologies, automated information system security and security engineering, DIACAP certification and accreditation processes, advanced database design, database performance monitoring and management, software metrics/system effectiveness measures/tools, multimedia, OLTP, distributed computing, and distributed computing for real-time, transaction processing systems against large, multi-terabyte databases, systems engineering processes, Information Technology Infrastructure Library (ITIL) processes, lean six sigma engineering processes, systems engineering lifecycle cost estimation processes. The following experiences are desirable:

- Understanding and experience in the complete IT systems lifecycle, from requirements, through design, development, integration, testing, implementation, operations, maintenance, and support (sustainment).
- Service Oriented Architectures (SOA), Enterprise Service Bus (ESB), Virtualization (e.g. VMWARE), Cloud Computing, Thin Client architectures (e.g. CITRIX), and related technologies.
- Mature, structured systems engineering processes and disciplines, including SEI CMM, CMMI, Lean Six Sigma, Information Technology Infrastructure Library (ITIL), and DAU's System Planning, Research, Development, and Engineering (SPRDE).
- Defense Acquisition Guidebook (DAG) and the comprehensive Integrated Defense AT&L Life Cycle Management Framework Chart, including Concept Refinement, Technology Development, System Development and Demonstration, Production and Deployment, Operations and Support
- Open standards, enterprise integration, cross-enterprise integration technologies and strategies, National Health Information Network (NHIN) standards, principles.
- Configuration, Risk, Change, Incident, Problem Management, and Root Cause analysis.
- Capacity planning, performance monitoring, measurement, and analysis processes and methods
- Network, server, and storage infrastructure, information assurance, and system security in the protection of data at rest, during processing, and in transport.

Experience with information systems in the Federal (e.g. VA), DoD, and in particular DoD healthcare areas are highly desired. Experience within the Military Health System with Clinical and/or Theater systems/applications are



	also highly desired
Skills required for the position	Demonstrated experience and ability to define problems and analyze and develop plans and requirements in the subject matter area for simple to moderately complex systems in the subject matter area. Ability to coordinate and manage the preparation of analysis, evaluations, and recommendations for proper implementation of programs and systems specifications in the areas of risk management; life-cycle management; policy development, methodologies, and modeling, and simulation in the functional area being addressed. Ability to successfully interact at both the technical level (with other engineers) and at the executive senior leadership levels in providing briefings, discussing issues, and presenting logical, rational recommendations in response to complex issues and challenges.
Education/Certification requirements.	Ph.D. in a scientific, computer science or systems engineering, plus 10 years experience in the information systems, or a Master's Degree with 12 years experience, or a Bachelor's Degree with 15 years experience in the information systems, computer science, information management or other technical fields. Health care IT systems engineering experience may be substituted for the degree requirement at the discretion of the KSJ Chief Systems Engineer.
Work Location	Various, Washington DC Metropolitan Area
Start date	April 2010
U.S. citizen / Perm Resident	U. S. Citizen
Security Clearance Level	DoD IT/ADP II, or DoD Secret
Salary Range	Negotiable
Contact	KSJ: R. Barnett, 571-244-1089, rbarnett@ksj.us