

Position Description

Title: Senior Solutions Architect

Reports to: Director, Program Integration

FLSA and Job Status: Exempt, Full Time

Supervisory Responsibility: N/A

Location: Remote

POSITION SUMMARY:

The Senior Solutions Architect leads a variety of new, strategic projects in support of eHealth Exchange's technical road map. The Senior Solutions Architect works closely with the Product Manager to identify and evaluate new technologies and functionality needed to support eHealth Exchange's Participants. This position works closely with the CIO/Security Officer and other technical resources to appropriately identify requirements, define an approach and design the overall architecture to support the technology.

The Senior Solutions Architect role is intended to serve as a senior-level Subject Matter Expert (SME) in health information exchange and technologies needed to support exchange. Skill and significant background in technical architecture, strategy and building technologies for eHealth Exchange is required. Additionally, this position will be responsible for building and planning technology architecture that is in compliance with all HITRUST and NIST requirements since eHealth Exchange is HITRUST and NIST certified.

As a leading interoperability Subject Matter Expert (SME), the role involves creating the overall technical vision for a specific solution to a business problem. The role involves translating and explaining complex technical information for our customers, some technical and some not, in prominent organizations across the healthcare spectrum including providers, payers, Health IT vendors and service providers, health information exchange organizations (HIEs), and federal agencies, focusing on how eHealth Exchange solutions solve specific challenges.

The Senior Solutions Architect role requires a blend of high-level health data exchange architecture, process knowledge, project management, inside sales, strong analytical, communication, and leadership skills, and an eager willingness to learn – especially as it relates to the ever-evolving policy & technical healthcare landscape. The position requires the ability to effectively synthesize technical strategy, standards, processes, and technology and the communication skills and technical knowledge to develop architectures and solutions and be proficient in conveying these architectures to both internal stakeholders and to end customers.

[What is the eHealth Exchange?](#)

eHealth Exchange is a nationwide health data sharing network, which enables the secure sharing of health information among public and private participants, including federal agencies, health systems, healthcare provider organizations, regional and state health data sharing networks, public health and others in support of better care for individuals and populations.

ESSENTIAL FUNCTIONS:

- Serve as a lead point of contact for potential eHealth Exchange technical solutions, collaboratively designing and explaining how potential eHealth Exchange technical solutions operate and solve customer challenges, including answering customer queries, providing technical advice, and managing Health IT vendor hand-offs.
- Review, interpret and respond to detailed business requirements to ensure alignment between customer expectations and current or future capabilities.
- Build the bridge between a business problem and the technology solution and outline each of the phases and requirements required to make that solution work.
- Diagram, suggest, and socialize potential architectures (application, data, infrastructure, networks, servers/services, cloud, devices, and security) to solve the problem at hand.
- Ensure suggested architectures include resources needed for implementation, the standards the project is using, and the physical and web components.
- Provide input to the strategic direction of technology investments to assist in the development of the architecture and maximize the return on technology investment.
- Define and design technology solutions, within the agreed enterprise architecture, to assist the business in meeting their business objectives.
- Develop, test and implement technology solutions and report on delivery commitments to ensure solutions are implemented as expected and to agreed timeframes.
- Identify system, infrastructure and project interdependencies and balance competing demands to ensure project deliverables are achieved.
- Provide the technical expertise that enables Health IT vendors, internal staff and external contractors to fully understand customers' needs so appropriate solutions are identified.
- Coordinate with eHealth Exchange Health IT vendors to ensure customers' needs are addressed and issues are satisfactorily resolved.
- Coordinate receipt of customers' technical requirements and information prior to hand-off to the Health IT vendor.
- Guide Health IT vendors to ensure solutions built meet requirements and solve business goals.
- Facilitate customer communication teleconferences to elevate customers' solution understanding, and to identify systemic customer issues and concerns.
- Develop, document, and refine technical architecture designs for eHealth Exchange. Coordinate with internal technical IT management (CIO and Technical Director) as appropriate.
- Direct the production of requirements documents which communicate process workflow and data/functional/operational needs effectively and accurately to both business stakeholders and technical staff.
- Anticipate customer needs and operational issues, and proactively coordinate with customer and Sequoia Project staff to overcome the obstacles and exceed customer expectations.
- Work closely with Senior Product Manager, who sets technical and strategic direction for the network, to explore a portfolio of opportunities to further expand network capabilities, use cases and functions.

- Working with the Information Security Officer as needed, ensure network evolution follows the highest of security standards.
- Assist with additional technical projects as needed.

KNOWLEDGE, SKILLS, AND ABILITIES:

- Proven ability to successfully implement innovative technology strategies with emphasis on large-scale deployments of health information technology (HIT) or health information exchange (HIE)
- Knowledge of relevant legislative or regulatory requirements such as HIPAA and the 21st Century Cures Act.
- Strong public-speaking skills with specific experience speaking publicly on HIT/HIE.
- Effective communication skills for both technical and non-technical audiences.
- Understanding of national-level consensus-based standards and specification development initiatives that lead to interoperable exchange of health information.
- In-depth technical subject matter expertise in the following areas:
 - eHealth Exchange specifications
 - IHE profiles, including: ATNA, XCPD, XCA, XDS, XDS-I, XUA, FHIR profiles, PAM
 - Clinical content standards such as HL7 v2, C-CDA, C32, FHIR
 - Public Key Infrastructure, X.509 digital certificates and Federal Bridge Certification Authority preferred.
 - ISO/IEC 27001 Standard, directions and advice of NCIIPC, FIPS 140-2, NIST 800-171, and other relevant security standards preferred.
- Strong working knowledge of the health information technology (HIT) industry with understanding of healthcare workflow, data connectivity, interoperability principles & standards, and related communication protocols
- Excellent technical, management and analytical skills and the ability to understand the eHealth Exchanges services and associated processes.
- Exceptional consulting skills and customer savviness with proven ability to plan and work with customer through implementation process, while keeping efforts on track with milestones
- Strong project management skills with proven ability to independently and successfully apply process acumen to process improvement projects, with measurable business performance improvement outcomes.
- Ability to multi-task in rapidly evolving environment, in condensed timeframes; demonstrated ability to work against a plan, meet deadlines and produce deliverables relative to target dates.
- Strong problem solving and critical thinking skills with ability to identify and develop plans to mitigate issues from escalating and identify creative solutions to avoid impeding implementation efforts.
- Ability to work with customer's senior level management (typically Director / CIO) to provide updates and address escalated matters that affect the customer's implementation timeframe.
- Exceptional interpersonal skills and the ability to influence, negotiate, and lead regardless of title or authority.
- Moderate proficiency in MS Word, Excel, and PowerPoint
- Excellent attention to detail

EDUCATION, TRAINING AND EXPERIENCE:

- Bachelor's degree required preferably in Computer Science / Engineering; Master's degree preferred.
- Minimum of 15 years of experience in health information technology (HIT) field, with emphasis on development and implementation of solutions in health information exchange (HIE) and interoperability.
- At least 8 years of experience in network engineering strategy and optimization, systems planning, and architecture design.
- 2+ years of experience with health care compliance requirement for HIPPA, PHI preferred.
- Recognition as a national-level subject matter expert on HIT/HIE through leadership representation in an industry committee or board such as the Integrating Healthcare Enterprise (IHE)
- Strategic and technical planning
- TOGAF architecture certification preferred.

PHYSICAL AND MENTAL REQUIREMENTS:

- Ability to work on a computer for extended periods of time
- Ability to stand or sit for extended periods of time
- Extended working hours and overnight travel may be necessary; approximate travel: 10%
- Ability to lift 15 to 20 lbs.

Interested individuals should forward Resume and Cover Letter to HR@sequoiaproject.org