

# SNOHOMISH COUNTY JOB DESCRIPTION

## ENTERPRISE TECHNOLOGY ARCHITECT

Spec No. 3326

### BASIC FUNCTION

Manage, develop and maintain technical strategies and architectures to meet complex, enterprise-level business application requirements. Design, review and coordinate integrated solutions across all business segment solution platforms. Develop, test, implement, and maintain computer application systems, and network and database architectures with related technical documents as required to support business functions. Manage diverse technology projects and interface with Client technology teams. Be familiar with a broad range of enterprise-scale technologies in order to effectively work with clients, management, developers, and systems engineering.

### STATEMENT OF ESSENTIAL JOB DUTIES

1. Provide a high level of technical expertise to DIS customers in order to estimate, design and implement business solutions. Collaborate and provide technical leadership to project teams, customers, and business partners utilizing specialized knowledge of computer applications, database design, application security, server structures, and network technology to provide cost effective, efficient, integrated application recommendations and implementations utilizing best practices.
2. Perform IT design reviews across the organization as well as assist in the design, development, and testing of applications, databases, tools, procedures and programs for data and systems integration, conversion, and upgrades.
3. Validate, design, create, document, and maintain test and validation techniques, as well as review all applicable standards for efficiency, sustainability, and recovery in collaboration with applications development, engineering, operations, and information security personnel.
4. Perform enterprise application integration (EAI) architectural analysis. This includes defining the opportunities for integration, selecting the tools, specifying the shared data and code resources, defining the interfaces and data flows, as well as monitoring the success of said activities in collaboration with information security, development, and systems personnel.
5. Translate business requirements into systems qualities and then into repeatable design strategies and patterns that enable those qualities (e.g. adaptability, scalability, availability, non-repudiation, reusability, etc.)
6. Facilitate and/or oversee the design and development of architectures that provide translation of data between related departmental business systems to achieve enterprise integration and to support system users in accessing and retrieving data for business processes and reporting.

## SNOHOMISH COUNTY JOB DESCRIPTION

### ENTERPRISE TECHNOLOGY ARCHITECT

Spec No. 3326

#### STATEMENT OF ESSENTIAL JOB DUTIES (Continued)

7. Develop and verify authentication and access controls in compliance with established security standards and procedures for applications and databases in advance of implementation, in collaboration with information security personnel.
8. Establish and/or maintain the County's IT design repository, ensuring all applications, databases, systems, interfaces, tools, and infrastructure are documented in accordance with established standards.
9. Provide leadership to the organization in all major project life cycles with regard to the technical evaluation of vendor software and hardware products targeted for possible integration into existing strategic infrastructures, applications, tools, and utilities.
10. Provide leadership and mentoring to architectural teams consisting of applications, database, network infrastructure, Web, GIS, system, and security development experts.
11. Follow and/or develop an organizational architectural development process based on standard industry approved processes.
12. Establish validation procedures and acceptance criteria for data products and utilities provided by vendors, contractors, or outside agencies when they are to be loaded onto, or as a part of, a new or existing production databases.
13. Navigate the County organizational structure and work with key project stakeholders, project managers, implementation teams, and vendors to drive projects to successful completion.
14. Survey external emerging developments and technologies, as well as evangelize and support management with regard to new technologies, standards, and methodologies that will have a positive impact on the County's bottom line and quality of service
15. May be required to serve as lead for technical team on medium to large projects, in problem resolution scenarios, as well as perform some duties of peers and subordinate classifications.
16. Performs other duties as required.

#### MINIMUM QUALIFICATIONS

A Bachelor's degree in computer science, software engineering, information systems, data processing or related field; PLUS, seven (7) years work experience in information systems. Three (3) of these years must have included direct assignments involving engineering/architecting enterprise solutions. Experience and/or architectural certificates may be substituted for education requirements either on a year-for-year basis or cumulative

# SNOHOMISH COUNTY JOB DESCRIPTION

## ENTERPRISE TECHNOLOGY ARCHITECT

Spec No. 3326

### MINIMUM QUALIFICATIONS (Continued)

certificate basis, providing experience and certifications are directly related to performing advanced technology architecture assignments. Must pass job related tests.

### SPECIAL REQUIREMENTS

A valid Washington State Driver's License is required for employment.

Candidates for employment must successfully pass a criminal background investigation which includes fingerprinting.

### KNOWLEDGE AND ABILITIES

Knowledge of:

- development standards and implementation techniques
- popular object and service-oriented architectures
- various system/platform/database connectivity tools, products, and methodologies
- methodology for analysis, engineering, testing, and implementation of systems
- industry architectural process standards
- network system components, configuration, and functionality
- PC workstation and server operating system structures, configuration, and operating procedures
- application programming languages and architectures utilized by the County
- relational database functionality, structure and management procedures, including SQL (structured query language)
- logical and physical data modeling of spatial and tabular data
- existing County standards related to hardware and software architectures to accomplish assigned duties
- project management methods, tools and techniques
- advanced system diagnostic methods

Ability to:

- communicate effectively, both orally and in writing in various forms for group presentations, reports, and individual mentoring
- translate stakeholder business requirements into technical specifications
- establish and maintain excellent working relationships with key project stakeholders, managers, superiors, associates, individual users, vendors, and outside agencies
- visualize strategic projects coupled with attention to detail
- manage project plans, timelines, and resources to handle multiple assignments and assume responsibility for meeting deadlines

# SNOHOMISH COUNTY JOB DESCRIPTION

## ENTERPRISE TECHNOLOGY ARCHITECT

Spec No. 3326

### KNOWLEDGE AND ABILITIES (Continued)

- participate, coordinate, and facilitate multi team member work on technology architectures
- work independently and effectively as team member, facilitator, and leader
- translate technical terminology into terms understandable to management and employees
- conduct research and evaluate new technology
- learn, understand, and apply technical manuals and procedures
- provide technical assistance and training to other staff as needed
- maintain required records and prepare necessary reports
- operate microcomputer and related peripheral equipment to plan, schedule, control, model, or construct projects or project components

### SUPERVISION

The employee reports to the Director of Information Services and/or another administrative person as assigned. The work is performed with considerable independence and is reviewed through periodic reports and meetings.

### WORKING CONDITIONS

The work is performed in the usual office environment. Employees are on call during off-duty hours and are required to work evenings, weekends, and holidays as necessary.

Snohomish County is an Equal Employment Opportunity (EEO) employer.  
Accommodations for individuals with disabilities are provided upon request.

[EEO policy and ADA notice](#)

Class Established: August 2005  
EEO Category: 3 - Technicians  
Pay Grade: 754 - Information Services Pay Plan  
Workers Comp: 5306 Non-Hazardous