**Class Summary**

The responsibilities of this classification include serving as the lead designer within a service or related grouping (domain) of technologies, providing design and consulting to continually evolve the County’s technologies and related processes to maximize business functionality. The Solution Architect - Technology act both as independent contributors, and as part of a team to establish and maintain alignment between the County’s strategic technology plan, and the enterprise technology architecture. Incumbents collaborate with business users, project teams, and engineers with a particular focus around how to best design, implement, and support technologies in support of architecture efforts and strategic directions.

**Distinguishing Characteristics**

This is the first level in a two-level Architect - Technology classification series. Incumbents in this classification apply extensive enterprise architecture and advanced technology architecture principles, theories, concepts, as well as specific knowledge of the technologies in their domain. This classification serves as a top technical expert who applies a broad knowledge of technology expertise in the County’s technical environment to define and implement County technology strategies, principles, standards, solution patterns, and reference architectures.

This classification is distinguished from the Enterprise Architect - Technology, in that the Solution Architect - Technology focuses on the design and implementation of the architectures within a subset of County’s technology portfolio. This spans both department and business domain boundaries, with a heavy emphasis on interoperability across domains. Additionally it is responsible for the build-out, documentation, and institutionalization of the architecture within their domain of technology or service. This classification is distinguished from other technology-related series in that it serves as the County’s recognized domain-level architecture subject matter expert, and is responsible for providing direction to staff on how to best use the components that comprise the County’s technology architecture.

**Examples of Duties**

1. Serve as a technical expert on the County’s technologies and processes, guide technical staff on advanced issues.
2. Collaborate with the Enterprise Architect - Technology, business users, peer architects, engineers, service owners, and other technical staff to translate business requirements into technical designs, reference architectures, and solution patterns.
3. Participate in enterprise architecture efforts for the definition of major components of the County’s technology architecture.
4. Lead the technology governance teams within the solution architect’s domain.
5. Serve as a project resource to provide technical design recommendations, advice, review and coordination to complex, high impact projects.
6. Lead teams to develop standards, best practices, solution patterns, reference architectures, metrics and policies and processes. Review and approve technical designs for compliance with enterprise best practice guidelines, standards and legal regulations related to technologies and processes.
7. Consult with internal or external customers and IT staff to help match solution patterns to business and technical requirements.
8. Lead the County in the developing enterprise-level expertise in the most effective use of technologies and processes.
9. May serve as highest point of technical escalation for technologies and processes.
10. Lead and/or participate in the evaluation, development and implementation of technology.
11. May be called upon to provide support for significant service issues or failures at any time.
12. May develop or provide subject matter expertise on budget requests, cost/benefit analyses, technical evaluations, feasibility studies and/or proposals and Requests for Proposal or Information.
13. Create County documentation standards, including architectural processes, templates, technical diagrams, and solution design documents. Encourage the use of County standard modeling methods and communication, conducting or coordinating training on the standard methods and diagramming standards.
14. Conduct or coordinate training sessions ranging from formal classes on new technology to informal lunch and learns and other types of training.
15. Serve as a mentor to staff seeking architecture skills as part of career development by partnering on progressively difficult projects with the support of management.
16. Perform other duties as assigned.

**Knowledge/Skills**

Expert knowledge in designing, implementing, and maintaining a large-scale, complex environment

Expert knowledge of principles, approaches, and best practices

Advanced knowledge in producing technology architecture diagrams, models, and schematics

Knowledge of technology governance processes and structures (TOGAF, CobiT, etc.)

Advanced knowledge of application of use cases and solution patterns

Knowledge of the relationship of technology architecture between business, data, and application architecture

Knowledge of cloud, hybrid and on-premise solutions and the relative advantages and support implications of each

Skill in researching strategic issues, providing analysis and recommending emerging technologies

Knowledge of systems management concepts and best practices

Knowledge of security, privacy, and compliance principles

Ability to learn and understand the complexities of the County’s business and technical environments and use this understanding to optimize architectures within the County

Skill in project management methodologies

Skill in team leadership techniques, including coaching and mentoring, cross training, performance feedback, and employee development

Skill in coordinating and facilitating complex projects involving stakeholders with conflicting interests

Skill in conveying technical information to non-technical users

Skill in handling multiple competing priorities

Skill in analysis, problem solving and troubleshooting

Ability to communicate (oral and written) effectively

Skill in customer service

Skill in working with a variety of individuals from diverse backgrounds

Ability to work independently and as a team member

Skill in using current office software programs including word processing, spreadsheet, database and email

**Education and Experience Requirements**

Bachelor’s degree in information technology/computer science or related field and minimum three years experience as an engineer/architect or similar experience as domain expert in the relevant domain

OR any combination of education and experience that clearly demonstrates the ability to perform the job duties of the classification

**Licensing, Certification and Other Requirements**

Some licenses, certifications and other requirements determined to be necessary to meet the business needs of the employing unit may be required

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| **FLSA Designation** | Exempt (Administrative) |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within same series** | Solution Architect - Technology  Enterprise Architect - Technology |
| **Class History** | Created 05/2015 |