**Class Summary**

The responsibilities of this classification include serving as a lead data designer within a service or business domain helping define and implement County-wide data strategies, principles, and standards for data modeling, data quality, and metadata management, including how data is organized, stored, accessed, and moved. The Solution Architect - Data acts as an independent contributor and as part of a team to establish and maintain alignment between data domains and the enterprise data architecture. Incumbents are responsible for the build-out, documentation, and institutionalization on the use of the data architecture within their domain of business or service.

**Distinguishing Characteristics**

This is the first level in a two-level Architect - Data classification series. Incumbents in this classification serve as a data architecture expert who applies a broad knowledge of both data architecture concepts and County data to lead a service or domain of business data. Incumbents in this classification are expected to offer solutions that optimize the effectiveness of the entire County’s data as well as a specific domain. This classification is distinguished from the Enterprise Architect - Data in that the Solution Architect - Data focuses on the design and implementation of the data architectures within a subset of the County’s application portfolio, or within a given domain of business data spanning both department and business domain boundaries, with a heavy emphasis on data sharing and usability. This classification is distinguished from other data-related series in that it serves as the County’s recognized domain-level data architecture subject matter expert, and is responsible for providing direction to staff on how to best apply the components that comprise the County’s data architecture.

**Examples of Duties**

1. Collaborate with the Enterprise Architect - Data, business users, peer architects, service owners, and other technical staff to translate business requirements into long-term information/data architecture design and solutions, including conceptual, logical, and physical models.
2. Lead the data governance teams within the solution architect’s domain.
3. Serve as a project resource to provide data design advice and coordination to complex, high impact data integration and migration projects.
4. Participate in enterprise data architecture efforts for defining the major components of the County’s data architecture. Lead and/or participate in the evaluation and implementation of data-related technologies that can improve the County’s ability to capture and integrate data.
5. Provide best practice leadership to database administrators and application developers. Participate on teams developing enterprise best practice guidelines and standards for data, metadata, data modeling, and management.
6. Participate in the design and implementation of the data portion of the County’s Service Oriented Architecture.
7. Consult with internal or external customers and IT staff to help match solution patterns to business and technical requirements.
8. Develop enterprise-level expertise in Business Intelligence, Data Warehousing, and Big Data across the County.
9. Review and approve data designs for compliance with enterprise best practice guidelines and standards for data, metadata, data modeling, and management.
10. 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.
11. May be called upon to provide support for significant service issues or failures at any time.
12. 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 diagraming standards.
13. Conduct or coordinate training sessions ranging from formal classes on new technology to informal lunch and learns, and other types of training.
14. 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.
15. Perform other duties as assigned.

**Knowledge/Skills**

Expert knowledge of data architecture principles, approaches, and best practices

Knowledge of implementing data-centric applications, such as data warehouses, operational data stores, and data integration projects

Knowledge of master data management best practices and the ability to lead in their implementation and maintenance

Knowledge to produce conceptual, logical, and physical data models

Knowledge of data governance processes and structures

Knowledge of application, data development and data discovery methodologies

Knowledge of metadata management-maintenance as well as design, and implementation of metadata-driven enterprise solutions

Knowledge of data classification, business ownership/stewardship definition, and developing role-based data access

Advanced knowledge of relational databases

Knowledge of reporting/analytic technologies

Knowledge of ETL (extract, transform, load) methodologies and tools

Knowledge of data privacy, compliance, and security principles

Skill in project management and team leadership techniques

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 two years experience as a data architect or data analyst or five years of experience as an application developer/engineer or Database Administrator

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 (Computer) |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within same series** | Solution Architect - DataEnterprise Architect - Data |
| **Class History** | Created 05/2015 |