**Class Summary**

The responsibilities of this classification include leading code review and approval processes, providing expert-level data modeling and standard programming, coordinating with King County Information Technology (KCIT) on large-scale architecture plans, and designing, developing, and maintaining data warehouses. In addition, incumbents lead highly complex, politically sensitive projects and/or staff.

**Distinguishing Characteristics**

This classification is the third level of a three-level series. This classification is distinguished from the Data and Evaluation Manager in that the Data and Evaluation Manager is responsible for supervising the work of an assigned work team and managing performance measurement, evaluation, and data asset projects across a division.

**Examples of Duties**

*In addition to the duties of the Data Engineer classification, the Data Engineer-Senior will:*

1. Implement enterprise data warehouses and marts from inception through design, programming, testing, and deployment.
2. Design, develop, and maintain data stores.
3. Create efficiencies by creating and maintaining functions, packages, automation, and other technical solutions.
4. Mentor less experienced staff on package development.
5. Perform code reviews of complex or non-standardized code.
6. Lead cross-system/cross-departmental data engineering projects.
7. Collaborate with KCIT to define data architecture framework and implement data solutions and toolsets.
8. Identify and recommend emerging technologies, toolsets, applications, systems, and long-term solutions.
9. Design security layers to ensure compliance with data security and privacy mandates across multiple disciplines.
10. Advise on data governance policies, processes, and communications documents.
11. Perform other duties as assigned.

**Knowledge/Skills**

Advanced skill in manipulating and analyzing data via code

Advanced skill in analytical thinking, problem-solving, and conflict resolution

Expert knowledge of relational database concepts such as table problem-solving foreign keys, join types, and indexes

Ability to organize and lead cross-functional teams in building sustainable processes and procedures for maintaining asset data across data stores and business functions

Skill in database management languages and query authoring

Skill in project management principles and practices

Skill in oral and written communication and demonstrated ability to write and present complex information for non-technical audiences

Skill in handling multiple competing priorities and producing quality detailed work within tight timeframes

Ability to effectively engage in and sustain relationships with people from diverse cultures and socio-economic backgrounds

Ability to work independently and as a team member

Demonstrated proficiency with business applications, such as Microsoft Office suite

**Education and Experience Requirements**

Any combination of education and experience that clearly demonstrates the ability to perform the job duties of the position

**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 Professional) |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within the same series** | Data Engineer-Associate, Data Engineer, Data Engineer-Senior |
| **Class History** | 08/2023 - Created |