



# Data Architect I

Salary Group: B28

Class Code: 0317

<u>CLASS TITLE</u>	<u>CLASS CODE</u>	<u>SALARY GROUP</u>	<u>SALARY RANGE</u>
DATA ARCHITECT I	0317	B28	\$83,991 - \$142,052
DATA ARCHITECT II	0318	B30	\$101,630 - \$171,881

## GENERAL DESCRIPTION

Performs highly complex (senior-level) data analysis and data architecture work. Work involves data modeling; implementing and managing database systems, data warehouses, and data analytics; and designing strategies and setting standards for operations, programming, and security. May supervise the work of others. Works under limited supervision, with moderate latitude for the use of initiative and independent judgment.

## EXAMPLES OF WORK PERFORMED

Determines database requirements by analyzing business operations, applications, and programming; reviewing business objectives; and evaluating current systems.

Obtains data model requirements, develops and implements data models for new projects, and maintains existing data models and data architectures.

Develops data structures for data warehouses and data mart projects and initiatives; and supports data analytics and business intelligence systems.

Implements corresponding database changes to support new and modified applications, and ensures new designs conform to data standards and guidelines; are consistent, normalized, and perform as required; and are secure from unauthorized access or update.

Provides guidelines on creating data models and various standards relating to governed data.

Reviews changes to technical and business metadata, realizing their impacts on enterprise applications, and ensures the impacts are communicated to appropriate parties.

Establishes measures to chart progress related to the completeness and quality of metadata for enterprise information; to support reduction of data redundancy and fragmentation and elimination of unnecessary movement of data; and to improve data quality.

Assists in selecting data management tools and developing the standards, usage guidelines, and procedures for using those tools.

Assists in identifying appropriate data sourcing and extraction processes, and in identifying and nominating sources as systems of record for data usage in various applications.

Assists in performing root cause analyses related to information issues and non-conformance to published data standards based on review of technical metadata of various source systems.

May supervise the work of others.

Performs related work as assigned.

## **GENERAL QUALIFICATION GUIDELINES**

### **EXPERIENCE AND EDUCATION**

Experience in enterprise data architecture and/or information architecture work. Graduation from an accredited four-year college or university with major coursework in computer information systems, computer science, management information systems, or a related field is generally preferred. Experience and education may be substituted for one another.

### **KNOWLEDGE, SKILLS, AND ABILITIES**

Knowledge of master data, metadata, reference data, data warehousing, and business intelligence principles and processes, including technical architecture; of enterprise information management processes and methodologies, relational database management systems, metadata management, and business intelligence and business analytics tools; of local, state, and federal laws and regulations relevant to data management and data governance; of the limitations and capabilities of computer systems; of technology across all network layers and computer platforms; and of operational support of networks, operating systems, Internet technologies, databases, and security applications.

Skill in the use of applicable software, and in project management and system development life-cycle concepts.

Ability to communicate effectively, and to supervise the work of others.