



Office of Human Resources  
IT Data Architect Senior - CI2867  
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### General Statement of Duties

Performs full performance level information technology work developing, implementing, and maintaining complex, large scale business and enterprise data models; designing and building relational databases; developing and maintaining enterprise-wide data architecture, governance, processes and tools; and serving as a technical expert to the organization in the use of enterprise and business data systems.

### Distinguishing Characteristics

A Data Architect is responsible for designing databases by developing modeling strategies to define how data will be accessed and stored and to define the security, scalability, and reliability of the database. This differs from a Database Administrator, which is responsible for ensuring that a database is running efficiently and securely, once fully implemented. A Data Architect will typically work with a Database Administrator on projects that require implementing a new database structure.

The Senior Data Architect is also distinguished the Associate Data Architect, which performs standard level information technology work developing, implementing, and maintaining business and enterprise data models; designing and building relational databases; and assisting with development and maintenance of enterprise-wide data architecture and governing principles.

### Essential Duties

Develops, implements, and maintains complex, large scale business and enterprise data models and data integration efforts to include establishing how new applications and projects will integrate with existing data systems.

Designs and build relational databases for data storage and processing.

Develops and implements strategies for warehouse implementation, data acquisitions and archive recoveries for complex, enterprise-wide data systems; develops, implements, and maintains data migrations, extract transform, and load functions.

Develops and maintains enterprise-wide data architecture, which includes defining and implementing data architecture standards, continuous refinement activities, and the architecture review process. Establishes and administers enterprise data governance to ensure optimal transparency, quality and consistency across the organization and to the public.

Reviews object and data models and the metadata repository to better structure the data.

Acts as a technical expert on enterprise data architecture by providing guidance to information technology professionals and clients on the integration of data standards into business and information technology processes.

Conducts research to identify client needs for business and enterprise data solutions, while ensuring compliance with data architecture principles and strategies. Formulates and defines scope and objectives of solution based on client needs.

Consults with clients and the organization to translate business needs into long-term architecture solutions.

By position, performs lead work over other information technology professionals or performs project management duties.

Performs other related duties as assigned or requested.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

### Competencies

Attention to Detail – Is thorough when performing work and conscientious about attending to detail.

Customer Service – Interacts with customers in a friendly and professional manner, works to resolve issues quickly and effectively, and is knowledgeable about products and services.

Information Management – Identifies a need for and knows where or how to gather information; organizes and maintains information or information management systems.

Oral Communication – Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

Reading – Understands and interprets written material, including technical material, rules, regulations, instructions, reports, charts, graphs, or tables; applies what is learned from written material to specific situations.

Technical Competence – Uses knowledge that is acquired through formal training or extensive on the job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

### Knowledge & Skills

Knowledge of developments and new applications of information technology (hardware, software, telecommunications), emerging technologies and their applications to business processes, and applications and implementation of information systems to meet organizational requirements.

Knowledge of data architecture principles, methods, and techniques used in the design and development of data systems

Knowledge of the principles, methods, and tools for designing, developing, and testing software in a given environment.

Knowledge of current information systems trends and technologies.

Knowledge of data processing sufficient to be able to review program specification, design programs and write or modify code.

Knowledge of information technology systems analysis, including systems design, sufficient to be able to maintain current systems and implement new systems.

Knowledge of the principles, methods, and tools for analyzing and developing software test and evaluation procedures.

### Level of Supervision Exercised

By position, may perform lead work on a project or rotating basis.

**Education Requirement**

Bachelor's Degree in Computer Science, Computer Information Systems, Business Administration, Mathematics, or a related field.

**Experience Requirement**

Three (3) years of professional information technology experience developing and maintaining enterprise-wide data architecture, to include two years at the type and of the level of the Associate Data Architect.

**Education & Experience Equivalency**

One (1) year of the appropriate type and level of experience may be substituted for each required year of post-high school education.

Additional appropriate education may be substituted for the minimum experience requirements.

**Licensure & Certification**

None

**Working Environment**

Subject to many interruptions.  
Subject to long irregular hours.  
Pressure due to multiple calls and inquiries.

**Level of Physical Demand**

1-Sedentary (0-10 lbs.)

**Physical Demands**

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Accommodation: Ability to bring objects into focus.  
Agility: Ability to move quickly and easily.  
Balancing: Maintaining equilibrium.  
Carrying: Transporting or moving an object.  
Color vision: Ability to distinguish and identify different colors.  
Fingering: Picking and pinching, through use of fingers or otherwise.  
Handling: Seizing, holding, grasping, through use of hands, fingers, or other means.  
Hearing: Perceiving and comprehending the nature and direction of sounds.  
Lifting: Moving objects weighing no more than 10 pounds from one level to another.  
Reaching: Extending the hands and arms or other device in any direction.  
Sitting: Remaining in a stationary position.  
Standing: Remaining in a stationary position.  
Stooping: Positioning oneself low to the ground.  
Talking: Communicating ideas or exchanging information.  
Vision Far Acuity: Ability to perceive or detect objects clearly at 20 feet or more.  
Vision Near Acuity: Ability to perceive or detect objects at 20 inches or less.  
Vision: Ability to perceive animal behavior, comprehend signs, and detect color.  
Walking: Ability to move or traverse from one location to another.  
Written Comprehension: Ability to discern the meaning of written words.

**Background Check Requirement**

Criminal Check  
Education Check  
Employment Verification  
By position, Motor Vehicle Record

**Assessment Requirement**

None

**Probation Period**

Six (6) months.

**Class Detail**

**Pay Grade:** I-816  
**FLSA Code:** Y  
**Established Date:** 9/21/2018  
**Established By:** LS  
**Revised Date:**  
**Revised By:**  
**Class History:**