JOB DESCRIPTION
The UNIVERSITY of OKLAHOMA

Enterprise Architect

Job Code: 7490

Salary Grade: S13

FLSA Status: Exempt

The following statements are designed to outline the general functions and typical responsibility levels associated with positions in this classification. They are not intended to serve as an exhaustive list of specific duties or requirements for individual positions assigned to this classification.

Duties and Responsibilities

The Data Architect provides advanced technical support in the research, experimentation, business analysis and use of systems technology including architecture, integration capabilities and data base management.

- Design the enterprise data architecture, defining how institutional data is organized, modeled, stored, and made available across operational systems, the data warehouse, analytics platforms, and downstream applications.
- Establish data models and standards, naming conventions, schemas, data domains, metadata requirements, and reusable patterns so teams do not build conflicting versions of the same data.
- Design data integration and data movement patterns and define appropriate patterns for batch, real-time, API, ETL/ELT, event-driven, and file-based integrations.
- Support data governance, security, and stewardship by building governance and security requirements into the architecture, including ownership, stewardship, classification, access controls, retention, auditing, and regulatory requirements.
- Translate business needs into scalable data solutions. Work with colleges, functional offices, researchers, leadership, developers, analysts, and data scientists to turn business questions into technical architecture that can be reused across the institution.

Minimum Qualifications

Education:

Required: Bachelor's degree in Computer Science, Information Systems, Data Science, Management Information Systems, Engineering, or a closely related field.

Experience:

Required: 5 years of related experience.

Certifications or Licenses:

- None

Verification of education and licensure (if applicable) will be required if selected for hire.

Knowledge, Skills, and Abilities

- Knowledge of enterprise data architecture, data modeling, and database design principles.
- Knowledge of data warehousing, ETL/ELT, APIs, integration patterns, and cloud data platforms.
- Knowledge of data governance, metadata management, security, privacy, and data quality practices.
- Skill in designing conceptual, logical, and physical data models.
- Skill in developing architecture diagrams, data flows, standards, and technical documentation.
- Skill in SQL and working with relational and analytical data platforms.
- Ability to translate business requirements into scalable technical data solutions.
- Ability to evaluate technologies and recommend appropriate architecture approaches.
- Ability to collaborate with technical teams, business stakeholders, data owners, and leadership.
- Ability to communicate complex technical concepts clearly to both technical and non-technical audiences.

Working Conditions

This position primarily involves sedentary work performed in an office or remote-work environment. The employee must be able to remain in a stationary position for extended periods, operate a computer and other standard office equipment, communicate effectively with others, and occasionally move throughout university facilities. The position may require occasional lifting or carrying of items weighing up to 20 pounds and periodic travel between university locations. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of the position.

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