



USC University of
Southern California

Senior Data Architect Job Description

JOB INFORMATION

Job Code:	167715
Job Title:	Senior Data Architect
FLSA Status:	Exempt
Supervisory:	
Job Family:	Network Operations
Job Family Group:	Information Technology
Management Level:	7 Individual Contributor

JOB SUMMARY

Drives the development of data modeling standards, guidelines, and techniques. Manages ITS data architecture, oversees identification of business requirements and functional designs, and develops strategies for prototyping, testing, and training. Demonstrates ITS values in action.

JOB QUALIFICATIONS:

Education

Req	Pref	Degree	Field of Study	
X		Bachelor's degree		
	X	Bachelor's degree	Computer Science	Or
	X	Bachelor's degree	Computer Information Systems	Or
	X	Bachelor's degree	in related field(s)	

Additional Education

Check here if experience may substitute for some of the above education.

X Combined experience/education as substitute for minimum education

Work Experience

Req	Pref	Work Experience	Experience Level	
X		5 years		
	X	8 years		

Additional Work Experience

Check here if education may substitute for some of the above work experience.

Combined experience/education as substitute for minimum work experience

Knowledge, Skills and Abilities

Req	Pref	Functional Skills
X		Extensive knowledge of and experience in database development, developing and delivering data architecture solutions and strategies.

Knowledge, Skills and Abilities

<i>Req</i>	<i>Pref</i>	<i>Functional Skills</i>
X		Firm understanding of data modeling, master data management, enterprise data warehousing, ETL, reporting, querying, requirements analysis, and data integration techniques.
X		Thorough understanding of database server architecture, administration, and security. Proven ability to understand and work with large, complex IT systems.
X		Experience contributing to and managing development policies, planning and executing with perseverance, drive, and keen attention to detail.
X		Extensive knowledge of network architecture.
X		Excellent written and oral communication skills, presenting technical topics in a technically-oriented detailed fashion to technical audiences.
X		Ability to develop positive working relationships and strong rapport with team members and stakeholders.
	X	Experience in IT and/or data science.

Other Job Factors

JOB ACCOUNTABILITIES

	<i>% Time</i>	<i>Essential</i>	<i>Marginal</i>	<i>N/A</i>
Oversees data architecture designs, business requirements, prototypes, testing, and training. Develops conceptual, logical, and physical data models, and supports development of data strategies by building roadmaps and creating processes to meet current and future needs. Sets research strategies, provides informed recommendations on innovative data tools and services, and aligns decision making with the university's vision and all standard policies, processes and procedures.				
Manages a repository of documentation related to data architecture standards, protocols, and frameworks, and regularly evaluates for improvement opportunities. Maintains currency with emerging technologies, leveraging industry knowledge and expertise to drive continuous improvement and innovation efforts in data architecture and related areas (e.g., application programming interfaces).				
Oversees root cause analyses and analyzes data trends, utilizing disruptive technologies to assist the identification of business value opportunities for customers and key stakeholders in administrative and academic units. Gains insight into customer challenges and data requirements and seeks to deliver quality solutions, collaborating with system and business owners to develop problem- prevention strategies.				
Actively embodies ITS values and behaviors (e.g., accountability, customer service). Drives regular communications with department leaders, data teams, and vendors, contributing to a culture of trust and transparency. Supports the enterprise data and analytics team's vision, working closely with team members and management to implement and support effective solutions for data architecture.				

Other Requirements

<i>Essential:</i>	<i>Emergency Response/Recovery</i>	<i>Essential:</i>	<i>Mandated Reporter</i>
	In the event of an emergency, the employee holding this position is required to "report to duty" in accordance with the university's Emergency Operations Plan and/or the employee's department's emergency response and/or recovery plans. Familiarity with those plans and regular training to implement those plans is required. During or immediately following an emergency, the employee will be notified to assist in the emergency response efforts, and mobilize other staff members if needed.		A mandated reporter who in his or her professional capacity has knowledge of, or reasonably suspects a person who is under the age of 18 years, elderly, or a dependent adult has been the victim of abuse or neglect must report the suspected incident. The reporter must contact a designated agency immediately or as soon as practically possible by telephone or in writing within 36 hours. By virtue of the associated job duties, this position qualifies as a mandated reporter as required by state law and USC's policy at: https://policy.usc.edu/mandated-reporters/

<i>Campus Security Authority (CSA)</i>	<i>Essential:</i>
By virtue of the associated job duties, this position qualifies as a Campus Security Authority as required by law and USC's policy at: https://dps.usc.edu/alerts/clery/	No

ACKNOWLEDGMENTS

The above statements reflect the essential and non-essential functions as necessary to describe the principle contents of the job. They are not intended to be a complete statement of all work requirements or duties that may be required of the position. I understand that I may be asked to perform other duties as assigned. USC reserves the right to add or change duties at any time.

The University of Southern California is an Equal Opportunity Employer. USC prohibits discrimination on any basis protected under federal, state, or local law, regulation, or ordinance or university policies. All employment decisions are based on individual qualifications and business need.

I acknowledge receipt of this job description and its associated physical requirements. I have read and understand the job description and job requirements and agree to abide by their contents. I realize that duties may be requested of me that are not specifically stated herein. I understand that I will be expected to adjust to potential fluctuations in work volume. I understand that, if I have any questions about the essential functions or expectations of my position, my supervisor and/or HR partner are available to discuss them with me.

Print Employee Name

Signature

Date

Print Manager Name

Signature

Date

This job description describes the general nature and level of work required by the position. It is not intended to be an all-inclusive list of qualifications, skills, duties, responsibilities or working conditions of the job. The job description is subject to change with or without notice, and Management reserves the right to add, modify or remove any qualification or duty. Nothing in this job description changes the existing at-will employment relationship between the university and the employee occupying the position.