



Job Description

Classification: Information Technology Specialist III

Working Title: Data & Innovation Architect

Position Number: 358-500-1415-001

Division/Unit: Information Technology Services Division / Deputy Director's Office

Assigned Headquarters: Sacramento Headquarters

Position Eligible for Telework (Yes/No): Yes

Job Description Summary

Under the administrative direction of the Deputy Director and Chief Information Officer (CIO) of the Information Technology Services Division (ITSD), the Data & Innovation Architect, serves as an expert advisor and works as a technical expert within the California State Lottery (Lottery) to lead and influence the direction and success of complex and critical IT and Lottery business initiatives and projects in support of the Lottery's mission. The Data & Innovation Architect spearheads and oversees the design, development, and implementation of data and innovation strategies. The duties for this position are focused in the Business Technology Management, Information Security Engineering, Client Services, IT Project Management, Software Engineering, and System Engineering domains.

Job Description

40% (Essential) Define, develop, and execute Lottery data, information, and innovation strategies that are aligned with business objectives and initiatives. Identify inefficiencies, risks, and gaps in overall Lottery data and solution ecosystem. Identify opportunities to use data, automation, analytics, and emerging technologies to improve business processes and service delivery. Advise and propose short and long-term architectural and process improvements. Identify and implement innovative, data-driven initiatives to maximize the value of data and improve Lottery business capabilities. Develop long range strategic roadmap for data management and governance. Integrate and align data and information strategies with business objectives. Develop strategies to maximize and increase adoption of Artificial Intelligence (AI) technologies including but not limited to Generative AI, Large Language Models, and Machine Learning. Improve the Lottery's analytic and reporting capabilities. Continuously address legacy technologies and create strategies to modernize and maximize resiliency. Provide leadership in the critical success areas of technology strategy and execution, project implementation development and planning, cross-organizational coordination, tracking and oversight, risk management, resource planning, and all aspects of system functional and performance quality. Serve as a bridge between business, data, architecture, and technology teams to foster a culture of innovation and responsible data use.

30% (Essential) Lead and oversee development of data architecture and information governance processes. Develop policies, architectural standards and guidelines that direct the selection, development, implementation and use of information technology throughout the Lottery. Define principles that guide technology decisions and the relationship between the Lottery's business context and enabling technologies. Through documented artifacts, effectively represent and maintain knowledge of flow of information/data between people/users,



Job Description

business processes, and systems. Develop information and data models, associated metamodels, common business vocabulary and taxonomies that define the Lottery's business and its key relationships. Review projects to ensure the conceptual completeness of the technical solutions. Provide architectural oversight on all data and innovation related projects, ensuring alignment with technology roadmaps and strategies. Work with project teams, domain architects, and solution architects to define enterprise solutions that are scalable, adaptable and in sync with evolving business needs and that drive innovation and value throughout the Lottery's project and technology portfolio. Ensure projects do not duplicate functionality and support the implementation of solutions with reusable components that can be orchestrated together into different methods for different business needs. Identifies architectural risks and proposes alternatives and solutions. Engage and influence technical teams and business units to ensure that data is governed, secure, and usable for advanced analytics and AI. Influence the design of logical data architectures and define the governance frameworks required for scalable, ethical, and compliant data utilization. Collaborate with ITSD units to automate data processes, enhance security, and integrate intelligent functionality into the Lottery's IT and business ecosystem. Ensure regulatory, policy, and information management processes are established and documented. Ensure compliance with applicable data security frameworks and standards.

25% (Essential) Recommend, develop, propose, and plan high-level sensitive projects or studies. Lead and drive innovation initiatives, such as proofs of concepts, pilots, and technology experiments with cloud, AI, automation, and other emerging technologies. Support change management for data and innovation initiatives, helping teams adopt new tools and practices. Serve as a technical project manager for initiatives and coordinates work with technical unit management and staff. Participate in ITSD strategic planning and identify goals and objectives that align to the Lottery's strategic plan. Advise on and coordinate the planning and delivery of organizational IT strategies and resources using both a business and IT development approach. Participate in the development and assessment of Lottery business plan proposals. Participate in budget development and review processes, including development of justifications and issue memos related to procurements and licenses required to implement data and innovation solutions in support of approved strategic roadmaps. Partner with business units to understand challenges and design/recommend solutions that increase efficiency or create new capabilities.

5% (Marginal) Other job-related duties as assigned such as but are not limited to: performing in a project lead capacity, developing/maintaining various documentation, performing advisory and consulting services, etc. Serves as an advisor on key governance bodies; and participates, as needed, in ad-hoc committees, work groups, and projects.

Scope and Impact

- a. **Consequence of Error:** ITSD is responsible for delivering high-quality technology services and solutions that enable the business to achieve its goals and objectives. With over 1,000 staff located in offices throughout the state, the Lottery's sole mission is to provide supplemental funding for California's public schools and colleges. While the Lottery is a public agency, it receives no public funding. Instead, all operating and administrative expenses are raised through the responsible sales of Lottery games. Disruptions that impact revenue generation would significantly affect the Lottery's ability to achieve its mission. In addition, incorrect data supplied to executives, upon which members rely for decision-making criteria, and/or unsupported recommended approaches or solutions could result in wasted resources and inefficient use of



Job Description

Lottery resources. Negative decisions on mission critical Lottery systems could result in outages where such failures would be a significant embarrassment to the Lottery, the Governor, and the State.

Errors, incomplete staff work, poor recommendations, and/or poor decisions may result in the loss of or disruption of major services to customers and/or the inability of ITSD to meet business needs. As appropriate, staff must be available to respond to major services outages that affect daily operations to ensure business continuity.

The Data & Innovation Architect exercises good judgement in making decisions affecting the Lottery's information technology and data. Poor judgement and decisions can adversely impact ITSD's effectiveness. The architecture, maintenance, and operations of the Lottery's IT systems and services constitute a significant investment in staff and material resources. The effective and efficient support of this investment is the responsibility of ITSD. Failure to use good judgement in performing the duties for this position could result in the loss of system integrity, loss of sales in Lottery products, or cause a security breach.

- b. **Administrative Responsibility:** The Data & Innovation Architect functions as a high-level technical lead providing analysis, consulting services, project management functions, budgeting, project and portfolio oversight, and strategic recommendations to ITSD management. The Data & Innovation Architect will work with and coordinate with all management, staff, vendors, and business stakeholders necessary to ensure ITSD delivers IT services and solutions that meet the current and future business and operational needs of the Lottery. The Data & Innovation Architect will assist with the training of any new personnel in the unit.
- c. **Supervision Exercised and Received:** The Data & Innovation Architect is under administrative direction of and receives most assignments from the CIO; however, direction and assignments may also come from the extended ITSD management team.
- d. **Personal Contacts:** The Data & Innovation Architect interacts with various levels of Lottery executives, managers, stakeholders, business areas, staff, vendors and consultants, and other state agencies.

Physical and Environmental Demands

Not Applicable.

Working Conditions and Requirements

The incumbent will work in a fast-paced environment, with competing priorities, and business critical deliverables.

- a. **Schedule:** This position supports the Lottery during normal business hours from 8:00 a.m. to 5:00 p.m. unless otherwise approved by the CIO. Weekends, long and/or irregular hours, after-hours work, and holiday work may be required.
- b. **Travel:** Statewide overnight travel may be required.
- c. **Other:** This position is also required to carry a Lottery-issued mobile phone to be reachable outside of normal business hours.



Job Description

Effective Date:

NOTE: The statements contained in this job description reflect general details as necessary to describe the principal functions of this job. It should not be considered an all-inclusive listing of work requirements. The incumbent of this position may perform other duties (commensurate with this classification) as assigned, including work in other functional areas to cover during absences, to equalize peak work periods or otherwise balance the workload.

SUPERVISOR'S STATEMENT:

- I have discussed the duties and responsibilities of the position with the employee.
- I have retained a copy of the signed duty statement.

Supervisor Signature

Printed Name

Date

EMPLOYEE'S STATEMENT:

- I have discussed the duties and responsibilities of the position with my supervisor.
- I have signed and received a copy of the duty statement.
- I am able to perform the essential functions listed with or without Reasonable Accommodation.
- I understand that I may be asked to perform other duties as assigned within my current classification, including work in other functional areas as business needs require.

Employee Signature

Printed Name

Date