



Duty Statement

Classification: **Information Technology Specialist II**

Position Number: **275-810-1414-039**

HCM#: **8210**

Branch/Section: **Information Technology Service Branch / Enterprise Solutions Development Division / Software Engineering Support Section / Application Engineering & Architecture / Architecture & Development**

Location: **Sacramento, CA**

Working Title: **Generative AI Senior Application Engineer**

Effective Date: **April 1, 2026**

Collective Bargaining Identifier (CBID): **R01**

Supervision Exercised: **Yes** **No**

Telework: **Office-Centered** **Remote-Centered** **Not Eligible**

The Enterprise Solutions Development Division (ESDD) provides the infrastructure and application services for most of the business functions within CalPERS and its eight Regional Offices. The ESDD collaborates with other divisions to meet CalPERS' business needs by providing quality, innovative, and sustainable services for business continuity.

The Software Engineering Support Section (SESS) provides a variety of critical technical support services to the CalPERS Business Divisions and their customers germane to the CalPERS business lines of work, including Web Site Services, systems development and support for batch and online processing, ad-hoc reporting, business rules implementation, and workflow team leaders.

Under general direction of the Information Technology Manager I (ITM I) in the Application Engineering & Architecture unit, the IT Specialist II (ITS II) works as a Generative AI Senior Application Engineer. The Senior Application Engineer works both independently and cooperatively with other IT team members performing the most complex work around analysis, design, planning, and implementation, along with providing high level guidance and direction using a holistic approach for the successful development and execution of strategy. The ITS II position works primarily in the Software Engineering domain.

Essential Functions

Regular and consistent attendance in the office at least three days a week for teamwork, in-person collaboration, personal interactions with members, stakeholders, and other team members, cross-functional communications within CalPERS. In-person collaboration is essential to promote and foster innovation, creativity, and complete engagement by the team. Coordinating work in person allows the teams to stay functional and aligned with the work of others. Being present in the office is essential to allow for immediate accessibility for discussions, questions, mentoring, or strategy sessions between team members.

- 40% Onsite¹ and virtually, acts as the technical lead for generative AI architecture, providing guidance in architectural governance and establishing standards, dedicating significant effort to defining and maintaining the agency's AI Reference Architecture. This includes setting standardized frameworks, such as LangChain and Semantic Kernel, and design patterns that all development teams are required to follow. Participates in the AI Center of Excellence operational steering committee and technical workgroups and evaluates third-party AI tools and libraries to ensure alignment with the agency's scalability and security requirements. As the Subject Matter Expert (SME) for Azure AI Services, the architect provides recommendations on complex architectural decisions, to prevent technical debt and ensure the long-term maintainability of AI solutions across the organization.
- 30% Onsite and virtually, provides mentorship and technical upskilling across the agency, including leading "Communities of Practice" for AI developers and sharing insights on prompt engineering, model tuning, and emerging Azure features. Conducts code and architecture reviews, focusing on optimizing token usage for cost team leaders and ensuring robust error handling in non-deterministic AI outputs. Additionally, the architect develops and recommends internal training modules and hands-on labs to train existing software engineers in generative AI concepts, supporting their transition from traditional development to AI-augmented workflows.
- 20% Onsite and virtually, leads innovation and proof-of-concept (PoC) leadership by driving the "AI Discovery" phase for new agency initiatives. This involves leading rapid prototyping efforts to demonstrate the feasibility and return on investment of AI solutions to executive leadership. The architect manages the AI Sandbox environment, providing developers with a safe and governed space to experiment with new large language models (LLMs) and multimodal models without risking production data. Throughout the AI lifecycle, from initial experimentation to deployment, the architect integrates Machine Learning Operations (ModelOps) practices into the team's standard workflow to support the transition of innovative concepts into operational solutions.
- 10% Onsite and virtually, acts as a key liaison between the agency and external vendors and stakeholders, coordinating with Microsoft Azure architects and technical account team leaders to stay informed about the latest developments in product roadmap and troubleshoot tier-3 platform issues as they arise. Additionally, the architect translates complex AI limitations and risks into actionable business advice for non-technical leadership and governance individuals to enable informed decisions regarding AI adoption within the agency. Performs other duties as assigned and appropriate for this classification.

Working Conditions

- ¹ This position is designated as office-centered and works primarily onsite at the Sacramento, CA - Headquarters at least three weekdays.

Conduct, Attendance and Performance Expectations

- Ability to maintain consistent attendance.
- Ability to demonstrate punctuality, initiative, and dependability.
- Ability to model and support CalPERS Core Values (Integrity, Accountability, Respect, Openness, Quality and Balance).
- Ability to model CalPERS Competencies and demonstrate proficiency in; Collaboration, Leading People, Leading Change, Driving Results, Business Acumen, Communication, and Leading Self.

I have read and understood the duties and essential functions of the position and can perform these duties with or without reasonable accommodation.

Employee Name (Print):

Employee Signature:_____ **Date:**

I certify that the above accurately represents the duties of the position.

Supervisor Signature:_____ **Date:**