**Class Summary**

The IT Production Engineer - Principal acts as a technical lead and owns the design, implementation, operation, and support of an assigned production technology domain; troubleshoots complex technical issues and mitigates risk through technical solution development; plans and configures new and emerging production domain technology in support of client requirements and King County business needs; establishes and formulates security and integrity controls, policy, procedure, and standards; and develops long-term technology strategies.

A **Production Technology Domain** is defined as any infrastructure, network, security, database, service, platform, enterprise business application, geographic information, software, information management, cloud and virtual computing, hybrid, storage, connectivity, desktop, communication, middleware, monitoring, and/or reporting system in the production, operation, and/or administration environment.

**Distinguishing Characteristics**

This is the third level in a three-level classification series. This classification is distinguished from the IT Production Engineer - Senior classification in that the incumbent in the IT Production Engineer - Senior serves as a subject matter expert (SME) on assigned projects, and the incumbent in the Principal acts as a technical lead in support of an assigned production technology domain.

**Examples of Duties**

*In addition to the duties for lower-level classifications within the IT Production Engineer series the IT Production Engineer - Principal will:*

1. Oversee assigned aspects of technical projects including project scope, communications, priorities, goals, and deliverables with various stakeholders; assist with related technical issues and support of architecture needs.
2. Document the designs of new and/or emerging technologies; provide in-team training on new and/or emerging technology; and ensure that appropriate documentation exists.
3. Ensure the assigned production technology domain is secure using industry standards and techniques.
4. Act as final escalation point for the resolution of production technology-related problems.
5. Identify and implement technology roadmaps.
6. Develop and implement service agreements; perform periodic reviews.
7. Act as a project lead for technical requirements, statements of work, contracts, proposals, studies, reports, conceptual and detailed designs, drawings, and/or documentation packages.
8. Analyze and identify recurring incidents and problems; lead problem management processes to resolve.
9. Communicate with, consult, advise, and/or present solution options, business process improvement, and integration of business and technical requirements to senior management, cross-functional teams, and stakeholders.
10. Act as a lead in change management, architectural review, and risk mitigation processes.
11. Perform other duties as assigned.

**Knowledge/Skills**

Ability to effectively engage in and sustain relationships with people from diverse cultures and socio-economic backgrounds

Ability to work independently and as a team member

Demonstrated proficiency with business applications, such as Microsoft Office suite

**Education and Experience Requirements**

Any combination of education and experience that clearly demonstrates the ability to perform the job duties of the position

**Licensing, Certification and Other Requirements**

Some licenses, certifications and other requirements determined to be necessary to meet the business needs of the employing unit may be required

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| **FLSA Designation** | Exempt (Administrative) |
| **Service Status** | Career Service or Appointed |
| **EEO Code** | 2 |
| **Levels within same series** | IT Production Engineer, IT Production Engineer - Senior, IT Production Engineer - Principal |
| **Class History** | 01/2024 - Created |