**Class Summary**

The IT Engineer - Principal acts as a technical lead and influences the technical direction for an assigned development technology domain; applies engineering and project management experience to end-to-end project execution; leverages technical, interpersonal, and communication skills to create effective business intelligence solutions; ensures the quality of its technical deliverables; and leads an assigned development lifecycle which may include research, architecture, development, customization, testing, and release.

A **Development Technology Domain** is defined as any infrastructure, data, network, security, service, platform, enterprise business application, geographic information, software, information management, cloud and virtual computing, storage, and connectivity system in the development and/or build environment.

**Distinguishing Characteristics**

This is the third level in a three-level classification series. This classification is distinguished from the IT Engineer - Senior classification in that the incumbent in the IT Engineer - Principal partners closely with technical experts in defining reusable patterns, developing standards/guidelines, and creating a review process that ensures quality across the development pipeline. Additionally, the IT Engineer - Principal will own the identification of trends in their respective technical area of practice, outline Proof of Concepts (POCs), and determine the go-forward adoption of researched technologies and frameworks.

**Examples of Duties**

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

1. Develop enterprise systems and/or applications that are efficient, secure, highly available, highly scalable, distributed, and supportable with good diagnostic and monitoring capabilities.
2. Collaborate on technical design, work estimation, implementation of new features, reviews, internal infrastructure, and process enhancements.
3. Manage multiple projects and meet aggressive deadlines concurrently.
4. Develop and promote shared enterprise solutions; maintain and improve existing solutions in response to business needs.
5. Lead and contribute to interdisciplinary teams across multiple lines of business.
6. Functionally contribute to organizational direction and standards by demonstrating command of multiple technical disciplines and a broad understanding of how decision-making impacts business.
7. Review, validate, and approve designs for technical feasibility and architectural consistency.
8. Develop information architecture and approve specifications across the enterprise; provide final review of products to ensure architectural consistency.
9. Lead, coordinate, and perform complex interface development, testing, implementation, and maintenance for systems in support of multi-user integrated applications.
10. Communicate, consult, and/or present to senior management, cross functional teams, and stakeholders related to solution options.
11. Communicate and delegate technical aspects of an assigned IT project to IT engineer team members.
12. Act as final escalation point for the resolution of development technology-related problems.
13. 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 (Computer Professional) |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within same series** | IT Engineer, IT Engineer-Senior, IT Engineer-Principal |
| **Class History** | 01/2024 - Created |