**Class Summary**

The IT Engineer has broad technical knowledge and designs, develops, documents, tests, and debugs new and existing systems and/or software; uses standard and/or specialized languages and tools to create data and source code; maintains and documents functionality; creates sub-tasks given larger development requests; possesses functional knowledge of presentation, business, and/or data access development layers; and serves as a project team member.

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 first level in a three-level classification series. This classification is distinguished from the IT Engineer-Senior classification in that the incumbent within the Senior is the subject matter expert (SME) and develops critical and complex systems and/or applications using various languages, tools, and/or vendor-managed platforms.

**Examples of Duties**

1. Reconcile process and performance using proven industry methods.
2. Perform root cause analysis in response to system failure.
3. Expand and optimize existing infrastructure, pipelines, systems, and/or applications.
4. Develop and modify functions, programs, routines, and stored procedures to extract, transform, and/or load data.
5. Test and maintain information management system infrastructure.
6. Follow emerging technology trends applicable to an assigned development technology domain.
7. Author transition to production/operations documentation.
8. Serve as an escalation point for tier 2 help requests.
9. Analyze, acquire, compile, and maintain spatial and tabular data and appropriate metadata.
10. Design, develop, and maintain user interfaces; build responsive web experiences across a variety of browsers and devices using current and emerging techniques.
11. Apply various languages and tools that join systems; maintain quality and integrity.
12. Collaborate with senior IT engineers to identify system, software, and/or data relationships and functional requirements.
13. Design new systems and/or enhancements to existing solutions.
14. Coach less experienced team members.
15. 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 |