**Software Engineer II Standard Job Description**

**Classification Title:** Software Engineer II

**FLSA Exemption Status:** Exempt

**Pay Grade:** 73

**Job Description Summary:**

The Software Engineer II, under general supervision, develops and maintains low-to-moderately complex components with guidance and support from experienced team members. Develops low-to-moderately complex web applications, desktop applications, and relational databases to include design, writing, installing, documenting, and/or testing (full stack) based on user requirements and analysis.

**Essential Duties and Tasks:**

**20%: Application Development and Testing**

* Develops low-to-moderately complex web applications, desktop applications, and relational databases based on user requirements and analysis.
* Performs tasks such as design, writing, installing, debugging, troubleshooting, documenting, and testing (full stack) for the applications. Ensures all code meets security standards.

**20%: Platform Setup and Maintenance**

* Sets up, configures, maintains, and administers server and client systems.
* Ensures all code meets security standards.
* Maintains familiarity with version control and containerization.

**20%: Needs Assessment and Documentation**

* Assists with the assessment of client needs and development requirements.
* Performs analysis based on user requirements.
* Prepares low-to-moderately complex system and program documentation for clients and technical staff.
* Assists with the review of system and program documentation for accuracy and completeness.

**20%: Professional Growth and Standards Compliance**

* Keeps current in professional growth.
* Keeps current on state/university rules and regulations with regards to technical responsibilities.
* Follows policies, procedures, and various standards.
* Makes recommendations for improvement of programming tools and strategies as part of the development process.

**20% Duty Title (for the department's use)**

* Remaining Percentage Can Be Determined by Department to Meet Business Needs or Can Be Incorporated into Percentages Above.

**Required Education and Experience:**

* Bachelor’s degree or equivalent combination of education and experience.
* Three years of software development/engineering, applications development, programming, systems architecture or related experience.

**Required Licenses and Certifications:**

* None

**Required Knowledge, Skills, and Abilities:**

* Knowledge of programming languages, software development lifecycle and security principles and best practices.
* Coding, software development, problem solving, testing, debugging, communication and collaboration skills.
* Ability to work with complex problems.
* Ability to multitask and work cooperatively with others.

**Machines and Equipment:**

* Computer: 35 hours.

**Physical Requirements:**

* None

**Other Requirements and Factors:**

* This position is security sensitive.
* This position requires compliance with state and federal laws/codes and Texas A&M University System/TAMU regulations and procedures.
* Works to cover shifts, or take emergency call, on evenings, weekends, and holidays as required.

**Is this role ORP Eligible? If so, it needs to meet the criteria on the** [**Rules and Regulations of the Texas Higher Education Coordinating Board**](https://reportcenter.highered.texas.gov/reports/data/user-friendly-version-of-ch-25/)**.**

**Yes**

**No**

**Does this classification have the ability to work from an alternative work location?**

**Yes**

**No**