JUNIOR COMPUTER SYSTEMS ENGINEER

JC: 000282
PB: 3
FLSA: Exempt

BU: 92 (NR)
Created: June 2019

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

DEFINITION

Under close supervision, assists in the design, testing, support, and coordination with other BART departments on technical computer engineering projects; plans, designs, implements, and monitors cyber security measures; and performs related duties as assigned.

CLASS CHARACTERISTICS

This is the entry level in the professional engineering classification series. This classification works under close supervision. As experience and proficiency are gained, incumbents are expected to exercise more independent judgment while performing more diverse and difficult assignments. Incumbents typically are expected to progress to the Engineer classification in 2-3 years. The Junior Engineer classification is distinguished from the Engineer level in that the latter is the full journey level in the engineering series.

REPORTS TO

Engineering Manager, Engineering Supervisor, Principal Engineer or designee.

EXAMPLES OF DUTIES – *Duties include, but are not limited to, the following:*

1. Develops and maintains computer systems software; analyzes and resolves computer systems malfunctions to ensure operation of software in a production environment; assists in designing computer hardware and software modifications.

2. Assists in designing and specifying special testing and service equipment to troubleshoot and maintain transit vehicles.

3. Participates in a variety of meetings; keeps others updated and informed on any changes to development or production.

4. Conducts special studies and prepares a variety of reports and correspondence.

QUALIFICATIONS

Knowledge of:
- Basic principles and practices of assigned engineering discipline
- Appropriate sources of engineering information
- Principles and practices of project management
- Computer applications as applied to the solution of engineering problems
- Engineering materials, equipment and methods

Skills and Abilities:
- Apply basic engineering principles and practices to the solution of engineering problems
- Conduct engineering studies and evaluations and write clear and concise reports
- Analyze technical problems, including those involving computer hardware and software
- Learn engineering division procedures and applicable laws, codes and regulations
- Interpret and prepare drawings and specifications
- Preparation of construction and/or installation cost estimates
- Establish and maintain effective working relationships with those contacted in the course ofthe work

MINIMUM QUALIFICATIONS

Education:
Bachelor's degree in Computer Science, Electrical Engineering, or a related field from an accredited college or university.

Experience:
One (1) to three (3) years of professional verifiable experience in computer engineering, systems administration, JAVA development, quality assurance or related experience.

Substitution:
Experience as outlined above may be substituted for the education on a year-for- year basis. A college degree is preferred.

WORKING CONDITIONS

Environmental Conditions:
Office environment; field environment; exposure to computer screens.

Physical Conditions:
May require maintaining physical condition necessary for walking, standing or sitting for prolonged periods of time; must possess sufficient mobility to perform field inspections and investigations.

BART EEO-1 Job Group: 3000 – Engineers
Census Code: 1530 – Miscellaneous Engineers
Safety Sensitive: No