

## **CLASS TITLE: ENGINEER III**

**PURPOSE OF THE CLASSIFICATION:** Under direction is responsible for independent advanced level engineering work in the contract negotiation and administration, planning, design, construction, and inspection of Public Works projects and other related assigned duties.

### **ESSENTIAL TASKS:**

- Prepares designs, specifications, and cost estimates for roadways, bridges, flood control facilities, sidewalks, sanitary and storm sewers, water transmission mains and other Public Works construction projects of considerable complexity
- Participates in and conducts complex engineering studies
- Visits construction sites and monitors the progress of various projects
- Conducts special hydraulic studies, water and sewage treatment facilities studies, performance studies, field reviews, and growth studies to determine the future water and sewer requirements
- Confers with and recommends to superiors solutions to problems with contract administration and project management of design, construction, or maintenance of Public Works facilities
- Prepares detailed engineering reports and makes recommendations relating to the conduct of engineering activities
- Reviews design work, including that submitted by consulting engineers, for conformance to standards and policies
- Coordinates planning activities with other sections, departments, and outside agencies
- Completes related paperwork, including pay requests, requests for action, change orders, and contract documents
- Makes oral presentations relative to engineering studies, design, and construction projects at public meetings
- Must report to work on a regular and timely basis

**Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks.**

### **QUALIFICATIONS:**

Training and Experience: Graduation from an accredited college or university with a bachelor's degree in civil, mechanical, electrical, or chemical engineering, and three (3) years of progressively responsible related engineering experience; and experience in at least two (2) of the five (5) engineering areas as stated in the Engineering Services Progression Criterion Document.

Knowledge, Abilities and Skills: Considerable knowledge of the principles and practices of civil engineering particularly as applied to the design of public works projects; considerable knowledge of municipal engineering objectives, purposes, methods and practices; and good knowledge of applicable laws, ordinances, and safety regulations pertaining to the construction of public works projects. Ability to independently perform difficult engineering design work as related to public works projects; ability to perform technical research and to give reliable advice on difficult engineering problems; ability to organize engineering data and to present findings and recommendations clearly; ability to prepare and interpret engineering plans and specifications and to calculate stresses and deflections in structures; ability to negotiate and administer contracts for professional services; and the ability to courteously and tactfully communicate with fellow workers, supervisors, other members of the organization, and the public in giving and receiving information.

Physical Requirements: Physical requirements include arm and hand dexterity enough to use a keyboard and telephone; occasional lifting up to 20 pounds; frequent carrying and pushing up to 10 pounds, with occasional carrying and pushing up to 20 pounds; occasional pulling up to 20 pounds; may be subject to walking, standing, sitting, reaching, balancing, bending, kneeling, handling, climbing, and twisting; and vision, speech, and hearing sufficient to perform the essential tasks.

Licenses and Certificates: Certification within Oklahoma as an Engineer Intern as evidenced by successful completion of the Fundamentals of Engineering Examination; and some positions may require possession of a valid Oklahoma "Class D" Operator's license.

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**WORKING ENVIRONMENT:** Working environment is indoors in an office setting and outdoors and in inclement weather; and requires some travel to various locations to monitoring various projects.

**Class Code: 2016**

**EEO Code: E-02**

**Pay Code: EX-36**

**Group: Engineering, Planning and Technical**

**Series: Professional Engineering**

**Effective date: July 1, 2000**