



Office of Human Resources
Engineer Staff - CE0437
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General Statement of Duties

Performs entry-level professional engineering work under close supervision while learning and assisting in the design, construction, and plan review processes in accordance with standard engineering practices.

Distinguishing Characteristics

This class is distinguished from the Engineer classification that performs intermediate level professional engineering work on a variety of engineering assignments with emphasis placed upon the application of engineering mathematics, principles, and practices on moderately difficult engineering projects and assignments.

Essential Duties

Performs professional entry-level engineering work on small routine projects or parts of large projects under the direction of a licensed engineer.

Learns the processes, practices, and applications of design and construction project management and the principles, standards, requirements, and guidelines for plans review.

Trains and assists in the preparation of pre-bid materials defining scope of work and related information necessary for Request for Proposal (RFP), provides background information to design and/or engineering consultants and construction contractors, and responds to questions concerning the project.

Trains and becomes proficient in reviewing specifications for small projects or parts of large projects and monitoring construction projects of limited scope for compliance with design guidelines, requirements, and standards.

Reviews plans for new construction, alterations, and repair for compliance on code conformance with city codes, requirements, ordinances, and national standards.

Meets with contract personnel, citizen/neighborhood groups, and other city staff to resolve problems and concerns and answer questions on non controversial issues/projects.

Assists with field inspections of projects for conformance to approved plans.

Trains in the formulation of budgets for projects including planning, design, regulatory, and construction phases.

Performs increasingly more responsible work as the employee gains experience and independently performs engineering duties.

Performs other related duties as assigned.

Employees may be re-deployed to work in other capacities in their own agencies or in other City agencies to support core functions of the City during a City-wide emergency declared by the Mayor.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

Competencies

Interpersonal Skills - Shows understanding, friendliness, courtesy, tact, empathy, cooperation, concern, and politeness to others and relates well to different people from varied backgrounds and different situations.

Oral Communication - Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

Planning and Evaluating – Organizes work, sets priorities, and determines resource requirements; determines short- or long-term goals and strategies to achieve them; coordinates with other organizations or parts of the organization to accomplish goals; monitors progress and evaluates outcomes.

Problem Solving – Identifies problems; determines accuracy and relevance of information; uses sound judgment to generate and evaluate alternatives, and makes recommendations.

Reasoning - Identifies rules, principles, or relationships that explain facts, data, or other information; analyzes information, and makes correct inferences or draws accurate conclusions.

Written Communication - Composes, reviews, edits, and issues written materials for diverse audiences and communicates purpose in a succinct and organized manner appropriate for context, time, and place.

Knowledge & Skills

Knowledge of the concepts, principles, theories, and methods required to plan, design, construct, operate, and maintain facilities such as buildings, transportation systems water and sanitary systems, and other public works systems.

Level of Supervision Exercised

By position, performs lead work.

Education Requirement

Bachelor's Degree in Engineering.

Experience Requirement

None

Education & Experience Equivalency

No substitution of experience for education is permitted.

Licensure & Certification

By position, requires a valid Driver's License at the time of application.

Certification as an Engineer Intern (EI) or Engineer-in-Training (EIT) by successfully completing the Fundamentals of Engineering (FE) issued by a State licensing Board by the end of probation.

Licenses and certifications must be kept current as a condition of employment.

Working Environment

Pressure due to multiple calls and inquiries.
Subject to long irregular hours.

Subject to many interruptions.

Level of Physical Demand

1-Sedentary (0-10 lbs.)

Physical Demands

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Accommodation: Ability to bring objects into focus.

Balancing: Maintaining equilibrium.

Carrying: Transporting or moving an object.

Depth Perception: Ability to judge distances and space relationships.

Eye/Hand/Foot Coordination: Performing work through using two or more body parts or other devices.

Feeling: Perceiving attributes of objects by means of skin receptors, communication, or otherwise.

Field of Vision: Ability to sharply detect or perceive objects peripherally.

Handling: Seizing, holding, grasping, through use of hands, fingers, or other means.

Hearing: Perceiving and comprehending the nature and direction of sounds.

Lifting: Moving objects weighing no more than 10 pounds from one level to another.

Reaching: Extending the hands and arms or other device in any direction.

Sitting: Remaining in a stationary position.

Standing: Remaining in a stationary position.

Stooping: Positioning oneself low to the ground.

Talking: Communicating ideas or exchanging information.

Vision Far Acuity: Ability to perceive or detect objects clearly at 20 feet or more.

Vision Near Acuity: Ability to perceive or detect objects at 20 inches or less.

Walking: Ability to move or traverse from one location to another.

Background Check Requirement

Criminal Check

Education Check

By position, Motor Vehicle Record

Assessment Requirement

None

Probation Period

Six (6) months.

Class Detail

Pay Grade: EX-10

FLSA Code: Y

Established Date: 9/21/2018

Established By: LS

Revised Date: 10/29/2023

Revised By: AD

Class History: 6/6/2019- Added language to allow for out of state registration upon hire but obtain CO registration by the end of probation; 8/3/2023 – Updated requirement of EIT at time of application to by the end of the probationary period; 10/29/2023 - Revised pay grade as a result of CN1791