



Office of Human Resources
Engineer Staff - CE0437
THIS IS A PUBLIC DOCUMENT

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.

Level of Supervision Exercised

By position, performs lead work.

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.

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.

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.

Registration as an Engineer Intern issued by the Colorado State Board of Registration for Professional Engineers at the time of application.

Registration in another state will be accepted in lieu of this requirement, provided that the applicant has Colorado registration at completion 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.):

Standing: remaining on one's feet in an upright position.

Walking: moving about on foot.

Sitting: remaining in the normal seated position.

Carrying: transporting an object, usually by hand, arm, or shoulder.

Balancing: maintaining body equilibrium to prevent falling over.

Stooping: bending the body by bending spine at the waist.

Reaching: extending the hand(s) and arm(s).

Handling: seizing, holding, grasping, or otherwise working with hand(s).

Feeling: perceiving attributes of objects by means of skin receptors.

Talking: expressing or exchanging ideas by means of spoken words.

Hearing: perceiving the nature of sounds by the ear.

Eye/hand/foot coordination: performing work through using two or more.

Lifting: raising or lowering objects weighing no more than 10 pounds, from one level to another.

Far Acuity: ability to see clearly at 20 feet or more.

Near Acuity: ability to see clearly at 20 inches or less.

Depth Perception: ability to judge distance and space relationships.

Field of Vision: ability to see peripherally.

Accommodation: ability to distinguish and identify different colors.

Background Check Requirement

Criminal Check

Education Check

By position, Motor Vehicle Record

Assessment Requirement

None

Probation Period

Six (6) months.

Class Detail

Pay Grade: E-811

FLSA Code: Y

Established Date: 9/21/2018

Established By: LS

Revised Date:

Revised By:

Class History: