

CITY OF CHATTANOOGA
Classification Specification Title: Senior Engineer

Department: Public Works

Pay Grade: GS.13

Supervision Received From: Engineering Manager

FLSA Status: Exempt

Supervisory Responsibility For: None

Established: 6/29/07

Revision Dates: 4/4/25;

10/20/23; 7/1/16

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for providing technical guidance in the design and development of construction plans and documents, as well as solutions to complex engineering problems. Technical expertise in one or more of the following engineering specializations is required: Roadway and Urban Street design, Hydraulic Engineering including both sanitary and stormwater systems, Structural Design and Analysis of bridges and underground structures, Geotechnical Engineering and Design. Work requires limited supervision and the use of independent judgment and discretion.

SERIES LEVEL: The Senior Engineer is a stand-alone classification.

ESSENTIAL FUNCTIONS:

(The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.)

Designs complex atypical civil engineering projects for public works, ensuring compliance with all applicable codes, laws and regulations, standards, policies and procedures. Public works projects include, but are not limited to, geotechnical and structural design, design and analysis of retaining walls and structures, drainage design, box culverts and box bridges; and any associated document preparation.

Mentor, tutor, train, and direct junior engineering staff in current design methods and procedures. Activities include, but are not limited to, in-house technical seminars, one-on-one training sessions, technical design assistance, and continual monitoring of procedures and processes to optimize individuals' performance and technical output quality.

Assists with legal proceedings in which Expert Testimony or Technical Representation or Assistance is required by the Office of the City Engineer. These tasks include legal case preparations, courtroom representation as the City of Chattanooga's Representative, Expert Testimony, and any other necessities associated with legal proceedings.

Responsible for reading current technical literature, maintaining professional affiliations, and attending workshops and technical training sessions, when appropriate.

Assists in the procurement and oversight of professional consulting and/or contracting services, which includes: assembling bid documents, preparing specifications, opening bids, evaluating responses to bids, participating in pre-bid meetings, and performing other related activities.

Communicates with management staff, other employees, developers, engineers, contractors, and external organizations to coordinate activities.

Implements construction and contract management of City Capital Projects with responsibility for oversight of schedule and budget.

Represents the department and/or the City at a variety of meetings, public events, training sessions, on committees, and/or other related events or groups in order to receive and convey information pertaining to City policy, projects or programs.

Maintains a variety of engineering records and documentation.

Uses, carries, and answers their cell phone for business purposes as determined by the assigned job duties and the department head.

Must meet regular attendance requirements.

Must be able to maintain good interpersonal relationships with staff, co-workers, managers, and citizens.

Must accomplish the essential functions of the job, with or without reasonable accommodations, in a timely manner.

Performs other duties as assigned.

DEPARTMENT SPECIFIC DUTIES (if any):

May manage City of Chattanooga Flood Preparedness Program which requires collaboration/cooperation with various Federal, State, County, and Local departments.

May manage City of Chattanooga compliance with FEMA Levee Requirements for the Brainerd Levee.

MINIMUM QUALIFICATIONS: Bachelor's Degree in Civil Engineering (B.S.C.E.) and minimum of ten (10) years previous experience and training that includes computer-aided design of streets and roads, sanitary sewers, stormwater sewers, and related structures.

Requires experience preparing various construction documents for municipal projects and specialization in one or more of the following: Structural Design, Hydraulics,

Sanitary/Stormwater Systems Design, and/or Roadway Design and Construction or any equivalent combination of education, training, and experience.

LICENSING AND CERTIFICATIONS: Valid Driver's License. Professional Engineering (TN P.E.) License Required

SUPPLEMENTAL INFORMATION:

KNOWLEDGE & SKILLS: Knowledge of applicable Federal, State, and Local laws, ordinances, codes, rules, regulations, policies, and procedures; engineering design standards; customer service principles; civil engineering design principles; construction principles and practices; materials, tools, and methods involved in the design and construction or repair of roads, highways, and structures; and, land surveying guidelines.

Skill in using a computer and related software applications, such as AutoCAD, Microstation, Eagle Point, ArcView, GIS, Civil Storm or HEC-RAS; reading and comprehending a variety of technical plans, drawings, and models; using logic and reasoning to identify strengths and weaknesses of alternative solutions, conclusions, or approaches to problems; preparing technical documents, preparing and reviewing engineering designs in compliance with applicable standards, interpreting and comprehending applicable laws, ordinances, codes, rules, regulations, policies, and procedures, and communication and interpersonal skills as applied to interaction with coworkers, supervisor, and the general public, sufficient to exchange or convey information and to receive work direction.

PHYSICAL DEMANDS: Positions in this class typically require: reaching, standing, walking, fingering, grasping, feeling, talking, hearing, seeing, and repetitive motions.

WORK ENVIRONMENT: Light Work: Exerting up to 20 pounds of force occasionally, and/or up to 10 pounds of force frequently, and/or negligible amount of force constantly to move objects. If the use of arm and/or leg controls requires exertion of forces greater than that for Sedentary Work and the worker sits most of the time, the job is rated for Light Work.

Incumbents may be subjected to fumes, odors, dusts, and extreme temperatures.

SPECIAL REQUIREMENTS:

Safety Sensitive: N

Department of Transportation - CDL: N

Child Sensitive: N

The City of Chattanooga, Tennessee is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourage both prospective and current employees to discuss potential accommodations with the employer.