

CITY OF CHATTANOOGA
Classification Specification Title: Engineering Designer

Department: Public Works

Pay Grade: GS.12

Supervision Received From: Engineering Manager

FLSA Status: Exempt

Supervisory Responsibility For: None

Established: 7/16/07

Revision Dates: 4/2/25;

10/20/23; 1/6/2015

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for the design and coordination of transportation infrastructure projects.

SERIES LEVEL: This is a stand alone position.

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 and coordinates transportation engineering projects in compliance with all applicable codes, laws, regulations and standards; assists in the preparation and maintenance of city design standards; performs computer-aided design and creates conceptual designs including roadway and erosion control designs; creates preliminary layouts and produces final design drawings.

Utilizes AutoCAD Civil 3D to design transportation facilities including survey data processing, surface and contour creation, earthwork calculations, corridor modeling, quantity estimation, and 3-D visualization.

Develops quantity estimates and construction budgets for projects.

Prepares and/or reviews engineering designs, plans, maps, charts, diagrams, estimates and permitting requests for projects.

Conducts inspections and site visits to ensure projects are in compliance with applicable codes, laws, rules, regulations, specifications, standards, policies and procedures; initiates corrective action to mitigate violations and deviations.

Oversees and monitors on-site materials testing activities.

May coordinate project activities, assembly and opening of bid documents, contract reviews, cost estimates, completing various forms, documents and reports; and performs other related duties.

May use a city vehicle to perform field reviews.

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):

MINIMUM QUALIFICATIONS: Bachelor's Degree in Civil Engineering and two (2) years relevant experience designing and inspecting transportation capital projects; or Associates Degree in Engineering Technology and six (6) years relevant experience designing transportation capital projects; or any combination of equivalent experience and education. Expertise in AutoCAD Civil 3D is required.

LICENSING AND CERTIFICATIONS: Valid driver's license

SUPPLEMENTAL INFORMATION:

Knowledge of engineering design standards including City standards such as NACTO Urban Street Design Guide, NACTO Urban Bikeway Design Guide, ITE Walkable Urban Thoroughfares and MUTCD; customer service principles; construction principles and practices; materials, tools and methods involved in the design and construction or repair of streets and land surveying guidelines.

Skill in using a computer and related software applications such as AutoCAD, ArcGIS, Microsoft Project, and Microsoft Office; providing customer service; 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; communication and interpersonal skills as applied to interaction with co-workers, 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, lifting, 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.

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.