

CITY OF CHATTANOOGA

Classification Specification Title: Engineer 1 (APCB)

Department: Air Pollution Control Bureau

Pay Grade: GS.11

Supervision Received From: Manager Engineering

FLSA Status: Exempt

Supervisory Responsibility For: None

Established: 6/29/2007

**Reviewed Dates: 4/2/25;
12/1/2022**

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for performing engineering work related to evaluating industrial and commercial air emissions sources for regulatory compliance. Duties include inspecting air emission sources, reviewing industry permit applications, investigating air pollution complaints, writing inspection reports and memoranda, calculating air pollutant emissions, conducting modeling of ambient air pollutant concentrations and communicating with industry representatives.

SERIES LEVEL: The Air Pollution Control Engineer 1 is the first level of a three level air pollution control engineering series.

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.)

Calculates actual, potential and allowable air pollutant emissions using appropriate methods, source parameters and regulatory limitations; reviews emission calculation methods, emission control strategies and pollutant hazards; and uses screening air-dispersion modeling software to estimate ambient air pollutant concentrations resulting from emissions to determine health and environmental impacts.

Prepares air pollution permits for industrial and commercial sources that include enforceable conditions, emission limitations and operating parameter constraints that conform to applicable federal, state and local regulations and reviews permit applications for accuracy and completeness.

Prepares technical reports related to air pollutant emissions from existing, modified and proposed industrial and commercial sources which includes conducting inspection observations; writing industrial process descriptions; reviewing emission control strategies; performing health and environmental impact analysis; preparing emission calculations; conducting federal, state and local regulatory assessments; recommending enforcement actions; negotiating and writing emissions test agreements and performing other related activities.

Researches and reviews federal, state and local air pollution control regulations to determine applicability to industrial sources.

Conducts site inspections of industrial and commercial sources of air pollutant emissions to determine compliance with applicable regulations and permit requirements.

Observes process equipment and air pollution control equipment and records applicable operating parameters; reviews records and logs required by permit; visually quantifies opacity of emissions and observes emission testing.

Investigates complaints and malfunctions of industrial and commercial sources of air pollutant emissions and recommends corrective measures and enforcement actions; maintains a database of industrial sources that includes pollutant emissions, emission source parameters and compliance information.

Participates in conferences, workshops, and training as necessary.

Performs other duties as assigned.

DEPARTMENT SPECIFIC DUTIES (if any):

MINIMUM QUALIFICATIONS: Bachelor's Degree in Mechanical, Chemical, Civil or Environmental Engineering.

LICENSING AND CERTIFICATIONS: Valid Driver's License. Certification as an Engineer in Training. Visible Emissions Evaluation Certification (within 6 months after being hired).

SUPPLEMENTAL INFORMATION:

KNOWLEDGE & SKILLS: Knowledge of environmental, chemical, mechanical and civil engineering principles; air pollutant properties; air pollutants and emissions; air pollution control strategies for industrial processes; advanced mathematical concepts; and public relations principles.

Skill in performing mathematical calculations; maintaining databases; conducting research; preparing technical reports; and communication and interpersonal skills as applied to interaction with coworkers, supervisor, the general public, etc. sufficient to exchange or convey information and to receive work direction.

PHYSICAL DEMANDS: Positions in this class typically require climbing, balancing, stooping, kneeling, crouching, reaching, standing, walking, fingering, grasping, 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 working in high places, in the vicinity of moving mechanical parts, and in the presence of vibrations, fumes, odors, dusts and hot or cold 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.