CITY OF HOUSTON

JOB DESCRIPTION

Job Code: 542.3

Job Title: **SENIOR INSTRUMENT TECHNICIAN**

Pay Grade: 14

GENERAL SUMMARY:

Operates, repairs and services highly sophisticated instruments and equipment utilized in either the detection, sampling and analysis of air pollutants and/or wastewater or in the surveying of land and rights-of-way.

RESPONSIBILITIES:

- Installs, calibrates, maintains and repairs various technical equipment as well as robotic and conventional instruments for monitoring air, water lines, switch-over valves, model-flow meters and registers, or surveying land and rights-of-way.
- Inspects, tests, and evaluates instruments and equipment for proper operation and maintenance.
- Maintains records of work orders, incoming/outgoing parts, equipment and supplies, and parts and equipment requisitions and pricing. For land surveys, also makes sketches and records on obtained data in field survey record.
- Performs mathematical calculations and field checking of data.
- Performs other technical repairs, installations, maintenance, as directed; may perform some non-technical assignments, such as clearing field area.

SPECIFICATIONS:

KNOWLEDGE:
Specialized training in principles, procedures, practices, routines or techniques in a specific area or trade which might normally be acquired through up to 18 months of education or training beyond the high school level. Vocational competence in the operation of mechanical or electronic equipment may be required.

EXPERIENCE:
One year of experience in the operation, repair, calibration and installation of technical instruments and equipment in the area of work is required.

COMPLEXITY:
Work consists of standard procedures and tasks where analytic ability is required in following guidelines, policies and precedents.

IMPACT OF ACTIONS:
Errors in work lead to minor inconvenience and incur some costs. Work is typically performed under moderate supervision and within standard operating procedures. The incumbent occasionally can function autonomously, with the supervisor available to answer questions as they arise.

SPECIFICATIONS: (continued)

SUPERVISION EXERCISED:

Direct Supervision:
No direct report employees.

Indirect Supervision:
No indirect reports.

CONTACTS:

Internal Contacts:
Level of internal contact is primarily with the clerical and technical staffs. Interaction involves routine information exchange and/or simple service activity requiring common courtesy; e.g., answering questions, giving directions in response to simple requests.

External Contacts:
Level of external contact is primarily with lower-level service representative and vendors. Interaction involves routine information exchange and/or simple service activity that requires common courtesy; e.g., directing calls, and answering simple questions.

PHYSICAL EFFORT:
The position involves considerable physical exertion, such as regular climbing of ladders, lifting of heavy objects (up to 80 pounds) on a highly frequent basis and/or assuming awkward positions for long periods of time.

WORK ENVIRONMENT:
There are routine exposures to significant levels of heat, cold, moisture and air pollution. The position may involve periodic exposure to chemical substances and physical trauma of a minor nature such as cuts, bruises and minor burns.

PHYSICAL SKILL:
Requires the ability to make closely coordinated eye/hand movements within very fine tolerance and/or calibration demands; or the ability to make rapid closely coordinated eye/hand movements on a patterned response space within somewhat fine tolerance demands; or the ability to make coordinated eye/hand movements within fine tolerances with large equipment as an extension of the worker.

MISCELLANEOUS:
All duties and responsibilities may not be included in the above job description.

JOB FAMILY:
Instrument Technician/Instrument Person
Senior Instrument Technician

Effective: October 1990
Revised: April 1992
Revised: July 2023