INVITES APPLICATIONS FOR THE POSITION OF:
Air Quality Instrument Specialist I-II

An Equal Opportunity Employer

**SALARY**
$34.67 - $48.47 Hourly

**OPENING DATE:** 07/22/22

**CLOSING DATE:** 08/12/22 04:00 PM

**DESCRIPTION:**

The Sacramento Metro Air District is committed to protecting the health of the public through incentive programs, planning, education, air quality monitoring and enforcement. We are seeking a highly motivated, organized, and detail-oriented Air Quality Instrument Specialist for the Program Coordination Division. The ideal candidate will have experience with operating and repairing both gaseous and particulate air quality analyzers, following standard operating procedures (SOPs), repair of high and low voltage circuits and a basic understanding of computer operations.

This position installs, calibrates, maintains, and operates chemical, digital/analog electronic, microprocessor controlled, pneumatic, hydraulic, mechanical and other recording and control instrumentation devices; evaluates performance of instrumentation; and performs other related duties as required.

Distinguishing Characteristics
Air Quality Instrument Specialist I – The entry and training level class of the series. Incumbents work under immediate supervision and learn air monitoring/weather instrument operation, installation and repair.

Air Quality Instrument Specialist II – The fully experienced, journey level class of the series. Incumbents are responsible for repair and installation of instruments. Assists in training Instrument Specialist I’s in use, installation, and repair of equipment.

Positions in this class are flexibly staffed and are normally filled by advancement from the lower grade of Instrument Specialist, or when filled from the outside, require prior instrument specialist experience.

**TYPICAL DUTIES**

The duties listed below are examples of the work typically performed by employees in this class. An employee may not be assigned all duties listed and may be assigned duties which are not listed below.

1. Installs, maintains, modifies, repairs, and operates automatic recording and telemetry devices and other sampling equipment for the detection and measurement of atmospheric pollutants and...
weather conditions.

2. Calibrates instrumentation and telemetry components in accordance with Federal, State and local guidelines; maintains equipment used such as flow meters, samplers, voltmeters, and compressed gas cylinders.

3. Recommends modifications to air monitoring stations, equipment, and procedures; designs and develops quality control procedures, aids, and systems.

4. Reviews, evaluates, and corrects gaseous/particulate/meteorological datasets, and ensures its validity and compliance with regulatory guidelines; reviews and analyzes performance audit test reports; develops and maintains air monitoring computer databases.

5. Researches new equipment orders instrumentation, parts, and supplies; maintains inventory of parts and supplies; acts as liaison with equipment vendors and repair facilities.

6. Maintains records of work performed and supplies used.

7. Assists in training new instrument specialists.

8. Participates in special air monitoring studies.


**MINIMUM QUALIFICATIONS**

**Education and Experience:**

Air Quality Instrument Specialist I – Completion of all major course work required for an Associate or higher degree from an accredited college or university in electronics or a related field or any combination of training and experience that provides the desired knowledge and abilities.

Air Quality Instrument Specialist II – Completion of all major course work required for an Associate or higher degree from an accredited college or university in electronics or a related field and two years of experience as an Instrument Specialist I or three years of experience in the operation, maintenance, and repair of digital/analog electronic instrumentation, control mechanisms, or similar industrial devices or any combination of training and experience that provides the desired knowledge and abilities.

**Knowledge of:**

Both Classes – Principles underlying the construction and use of scientific instruments; principles of chemistry and physics; high and low voltage circuits; safety practices necessary for the work; basic computer principles and applications; statistical analysis and math.

Air Quality Instrument Specialist II – Microprocessor controlled devices; electrical and electronic (digital/analog) instrumentation; methods, practices, and tools used in maintaining, repairing, testing, and adjusting electro-mechanical, pressure, electronic, and other types of recording and measuring devices; Federal/State rules, regulations, and policies regarding ambient air monitoring; principles, methods, and equipment used in ambient air sampling and meteorological monitoring.

**Ability to:**

Evaluate, edit and correct gaseous, particulate and meteorological data; interpret and apply regulations, rules and policies related to air monitoring; read plans, blueprints, and schematics and make rough drawings and sketches; read and interpret recording charts, gauges, and other instruments, operate scientific measuring devices involving the application of physical, chemical, and/or electronic principles; troubleshoot and resolve instrumentation problems; analyze technical
problems and propose solutions; maintain written records; work with others as a member of a technical team.

Special Requirements:

Possession of a valid Class C California driver's license.

**WORKING CONDITIONS & PHYSICAL DEMANDS**

Working Conditions:

Computer monitor used on a daily basis. Daily exposure to dust, noise and outside weather conditions. Travel throughout the District on a daily basis is required.

Physical Demands:

Active physical work, but not prolonged exertion. Ability to climb ladders and stairs, stoop, bend, squat, lift and carry equipment weighing in excess of 40 pounds is required of all positions in this class. Positions must install and remove equipment from air monitoring facilities. Finger dexterity is required to use and to calibrate equipment.

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**Air Quality Instrument Specialist I-II Supplemental Questionnaire**

* 1. Do you have an associate or higher degree from an accredited college or university in electronics or a related field or any combination of training and experience that provides the desired knowledge and abilities?
  - [] Yes  
  - [] No

* 2. This position requires knowledge of repair and use of scientific instruments; an understanding of both high and low voltage circuits; best safety practices necessary for the work; following standard operating procedures; and basic computer principles and applications. Tell us a little about your education and work history, if applicable, that demonstrates this knowledge.

* 3. Do you have a valid Class C California driver's license?
  - [] Yes  
  - [] No

* Required Question