EAST BAY MUNICIPAL UTILITY DISTRICT
invites applications for the position of:

Instrument Technician

An Equal Opportunity Employer

**SALARY:**

$8,325.00 - $9,637.00 Monthly

$99,900.00 - $115,644.00 Annually

**OPENING DATE:** 06/17/19

**CLOSING DATE:** 07/05/19 04:30 PM

**THE POSITION:**

Under general supervision, the Instrument Technician performs a variety of skilled tasks involved with the installation, maintenance, and repair activities for process instrumentation, recording instruments, communications and telemetering systems, control systems, and distributed control system equipment related to water distribution systems, lift/pump stations, water treatment facilities, and hydropower facilities. The current job openings are within the Facilities Maintenance and Construction Division.

Typical duties include:

- Installing, maintaining, repairing, overhauling, calibrating, and testing a wide variety of electronic recording, indicating, controlling, pneumatic and telemetering, and test instruments.
- Installing, maintaining, repairing, overhauling, calibrating, and testing controls and control systems, including programmable logic controllers and programmable automation controllers.
- Installing, maintaining, and field troubleshooting automatic dialers and communications systems.
- Utilizing vendor manuals and drawings to setup and maintain complex instruments.
- Performing periodic preventive maintenance and making inspections.
- Troubleshooting systems, equipment, and instrumentation to diagnose problems.
- Reading and interpreting wiring diagrams, schematics, mechanical drawings, piping/process & instrument diagrams (P&IDs), and specifications.
- Ensuring proper safety precautions are followed.
- Estimating labor, materials, and supplies necessary to perform specific assignments.
- Keeping records and making oral and written reports of work performed.
- Establishing and maintaining effective working relationships with others.

The ideal candidate will have:

- Excellent skills and experience installing, inspecting, maintaining, and repairing a wide variety of instruments, equipment, and systems in an industrial environment.
- Ability to continuously learn new technologies in the field of industrial instrumentation.

The salary range is $8,325 per month increasing to $8,741, $9,178 and $9,637 after 12, 24, and 36 months, respectively.

East Bay Municipal Utility District (EBMUD) is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, religious creed, sex, gender, gender identity, gender expression, marital or registered domestic partnership status, age for individuals over forty years of age, national origin, ancestry, disability (mental or physical, including AIDS and HIV), medical condition (cancer and genetic characteristics), genetic information, sexual orientation, military and veterans status, family or medical leave status, pregnancy, pregnancy disability leave status, or any other status protected by federal, state and/or local laws.

**REQUIREMENTS:**

Any combination of education and experience that has led to the acquisition of the knowledge and abilities indicated above. Typical means of acquiring the essential knowledge and abilities is a combination of training and experience equivalent to:

1. A high school diploma or its equivalent; AND
2a. Four years of experience performing skilled field work in pneumatic, mechanical, electromechanical and electronic circuitry repair, at least two years of this time having involved work on instrumentation, field and process controls; OR

2b. Sixteen months' experience comparable to East Bay Municipal Utility District's (EBMUD's) Instrument Worker III classification, including satisfactory completion of the appropriate courses and advanced on-the-job training, as specified in EBMUD's Maintenance Trades Training Program for Instrument Technicians (employees only).

3. Valid California driver's license and satisfactory driving record.

4. Physical ability to perform both the field and office aspects of the job, including sufficient strength to lift, carry, and hold supplies and equipment; agility and stamina sufficient to walk up extended stairs and ladders; senses and dexterity to recognize unusual equipment activity; to read schematics and electronic component marking; and to repair instruments, connect wires, and use test equipment; and where a variety of weather conditions, heights, and confined spaces are factors.

5. Willingness to work shifts or overtime as needed.

Equivalent combinations of education and experience may be considered. To be considered under the "equivalent combination of education and experience" provision, it is your responsibility to include in your application materials written evidence of employment performed at the level of the typical duties of this position and/or coursework in subject areas directly related to this position. For more information, see our FAQ page at http://www.ebmud.com/jobs/job-resources/job-faqs-frequently-asked-questions/.

THE SELECTION PROCESS:
1. Submit a completed EBMUD application and the required supplemental question responses online at www.ebmud.com by 4:30 p.m., Friday, July 5, 2019. Only application materials submitted online during the filing period will be accepted.

2. Candidates must achieve a passing score on each test part in order to advance to the next step in the selection process.

3. All qualified applications and supplemental responses will be competitively evaluated, with those candidates demonstrating the strongest qualifications for the position to be invited to a written test tentatively scheduled for July 20, 2019.

4. Successful candidates will be placed on the hiring list, based on rank, for further consideration to fill the current regular vacancies, as well as others occurring over the next 12 to 24 months.

5. The probation period for this position is 12 months. For those holding civil service status the probation period is 6 months.

6. All employment offers are conditional, pending the results of a Live Scan background screening. All selected finalists must participate in the Live Scan background screening process to remain in consideration for EBMUD employment.

SUPPLEMENTAL INFORMATION:
As the first step in the selection process, responses to the supplemental questions must be submitted online with the regular EBMUD application. Please provide thorough, accurate descriptions of assignments you have personally performed. Should you respond with comments such as "see application" or "see resume" instead of addressing the questions directly, your application may not be considered.
Instrument Technician Supplemental Questionnaire

* 1. Do you have a high school diploma or its equivalent, and four years of experience performing skilled field work in pneumatic, mechanical, electromechanical, and electronic circuitry repair, with at least two years of this time having involved work on instrumentation, field, and process controls?
   - Yes
   - No

* 2. Describe your experience in troubleshooting equipment and isolating defective components. Include the name of your employer, your dates of employment, and your job title.

* 3. Describe the test equipment you used during the troubleshooting and isolating you described in Question #2.

* 4. Describe your experience with distributed control systems and related equipment such as programmable logic controllers (list model, manufacturer, and application). Include the name of your employer, your dates of employment and your job title.

* 5. Describe your experience with supervisory control and data acquisition systems and related equipment such as remote terminal units (list model, manufacturer, and application). Include the name of your employer, your dates of employment and your job title.

* 6. Describe your experience working with water quality analyzers commonly found in treatment plants, such as chlorine analyzers and turbidimeters.

* 7. Describe the first aid techniques in which you have been trained that apply to electrical accidents.

* 8. Can you trace multi-colored wires visually and electrically without the aid of a wiring diagram?
   - Yes
   - No

* 9. What is your experience using an oscilloscope?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 10. What is your experience using portable power tools?
    - Skilled (over 60 hours of practical field use)
    - Some experience (10 to 60 hours of practical field use)
    - No experience

* 11. What is your experience using a spectrum analyzer?
* 12. What is your experience using a tone generator?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 13. What is your experience using a soldering iron?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 14. What is your experience using a digital multimeter?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 15. What is your experience using a decibel meter?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 16. What is your experience using a pressure calibrator?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 17. What is your experience using a water manometer?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 18. What is your experience using a DC mA signal generator?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 19. What is your experience working with alarm systems?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 20. What is your experience working with telemetry systems?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 21. What is your experience working with pulse duration transmitters and recorders?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 22. What is your experience working with tone equipment?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 23. What is your experience working with pressure gauges?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience
* 24. What is your experience working with power supplies (high and low) and switching?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 25. What is your experience working with gas and oxygen detectors?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 26. What is your experience working with photo electric controls?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 27. What is your experience working with process controllers?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 28. What is your experience working with flow transmitters?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 29. What is your experience working with pressure transmitters?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 30. What is your experience working with printed circuits?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 31. What is your experience working with pneumatic controllers?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 32. What is your experience working with electronic controllers?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 33. What is your experience working with pneumatic regulators?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* 34. What is your experience working with signal conditioners?
   - Skilled (over 60 hours of practical field use)
   - Some experience (10 to 60 hours of practical field use)
   - No experience

* Required Question