

COASTAL WATER AUTHORITY

JOB DESCRIPTION

OPERATING TITLE: **Electrician/Variable Frequency Drive (VFD) Technician**

ABOUT COASTAL WATER AUTHORITY:

The Coastal Water Authority (CWA) is a conservation and reclamation district created by a Special Act of the 60th Legislature of the State of Texas in 1967. CWA operates large water pump stations, canals and transmission pipelines to provide untreated surface water to the cities of Houston, Baytown, and Deer Park, all for municipal purposes. CWA also provides untreated surface water to approximately 100 industries and agricultural customers. CWA is governed by a seven-member Board of Directors, four of whom are appointed by the Mayor of the City of Houston and three of whom are appointed by the Governor of Texas.

ABOUT THE POSITION: Responsibility for maintenance and repair of electrical motors, VFD drives and logic control systems within CWA. Will be subject to emergency call out and will require Tier I or Tier II Classification agreement after completion of probationary period. This is a Safety Sensitive Position.

SUPERVISION RECEIVED: Master Electrician/VFD Specialist

SUPERVISION EXERCISED: Coordination or work with other maintenance staff members.

EXAMPLES OF DUTIES:

- A. Troubleshooting and routine maintenance on VFD drives and control systems
- B. Use ladder logic diagrams to troubleshoot control systems
- C. Use technical manuals and perform preventative maintenance on motors and VFD Drives
- D. Inspect electrical equipment for defects and schedule required repair
- E. Provide on the job training to outside vendors on VFD's and control systems
- F. Monitor and inspect outside vendors on contract activities
- G. Use standard electrical test devices to diagnose electrical and control systems
- H. Install new electrical systems and replace electrical systems (board level and above)
- I. Keep accurate records of work performed on each piece of electrical equipment

QUALITIES, SKILLS AND EDUCATION – Minimum Essential:

- A. High School graduate or GED required
- B. State licensed journeyman electrician
- C. Can read and understand ladder logic diagrams
- D. Computer literate
- E. Ability to communicate effectively and works well with others
- F. Dependable, reliable, honest, and self-motivated

QUALITIES, SKILLS AND EDUCATION -- Beneficial:

- A. Some college and/or a degree
- B. Technical school background
- C. Can read and understand block logic diagrams
- D. Advanced computer skills
- E. 8 Hour Basic Plus Safety Training

EXPERIENCE AND WORK HISTORY – Minimum essential:

- A. Experience with troubleshooting various types of equipment i.e. pumps, motors, machine tools, motor starters, programmable logic controllers (PLC), etc.
- B. Experience with VFDs

EXPERIENCE AND WORK HISTORY – Beneficial:

- A. Medium voltage motor and VFD experience 4160/2300v – 2000-4000H.P.
- B. PLC programming experience a plus
- C. Experience on and/or familiar with Wonderware/I-Fix/VTSCADA software
- D. Industrial background
- E. Instrumentation experience on 4-20ma, 1-5v, etc.

PHYSICAL REQUIREMENTS:

- A. Must be physically fit and capable of working in inclement weather

CAREER LADDER: Electrician/VFD Technician - Master Electrician - Electrical Superintendent

NOTE: Any one position may not include all of the tasks listed nor do the examples necessarily include all of the tasks performed.

COMPENSATION AND BENEFITS: The compensation for this position is expected to be commensurate with the qualifications and experience of the candidate. Hourly Rate Range: CWA's comprehensive benefits package includes vacation and sick leave, health and dental benefits, life insurance and a pension plan. CWA is an Equal Opportunity Employer and values diversity in its workforce. All applicants considered for the position will be subject to a background check and drug screen.

APPLICATION PROCESS: Please apply through CWA's website (<https://coastalwaterauthority.org/careers/>) by completing an application and provide a resume to careers@coastalwaterauthority.org. If there are any questions please direct them via email to David Miller, P.E., Chief Engineer: miller@coastalwaterauthority.org.