

Industrial Wastewater Treatment Engineer

SUMMARY DESCRIPTION: Chemical Engineer needed at Centralized Waste Treatment facility to assist with data interpretation, determining treatment requirements and procedures, compliance sampling and analyses, documentation, and wastewater treatment equipment/processes optimization.

DUTIES AND RESPONSIBILITIES: The following duties and responsibilities are illustrations of the various types of work performed in this classification. These illustrations are neither restricted to nor all-encompassing of the duties to be performed under this job title.

- Review analytical data to determine whether treatment is necessary according to site permits.
- Perform bench-scale treatment to determine appropriate treatment procedures, dosage, etc.
- Perform compliance sampling and treatment equipment evaluations.
- Operate lab equipment (spectrophotometer, pH meter, test strips, ICP, litmus paper, etc.).
- Perform assigned treatment plant rounds; inspect, monitor, troubleshoot, performance test and document plant processes.
- Operate and adjust treatment plant pumps, motors, feeders and other equipment to maintain appropriate plant operations.
- Maintain, compile and update plant operations logs and reports; perform and record mathematical calculations related to plant operational activities
- Mix and add treatment chemicals; ensure adequate chemical application according to regulations and guidelines.
- Install, maintain, repair, modify, troubleshoot, and service plant operations machinery and equipment including pumps, valves, motors, meters, tanks, reservoirs, and feeders.
- Collect and document samples and perform a variety of routine water quality laboratory tests; work closely with laboratory vendors; monitor laboratory results; collect water samples as required.

Required Education and Experience:

- B.S. degree in Chemical Engineering or Environmental Engineering; or,
- B.S. degree in any other Engineering or Science, preferably with strong background in Chemistry, industrial wastewater treatment processes, and process control; or,
- A.A. degree in Science with strong background in Chemistry (at least two semesters of General Chemistry) and at least two years of experience in industrial wastewater treatment; or,
- Industrial Wastewater Treatment Operator Certificate from the California Water Environment Association (CWEA).