

Jurisdictional Class: Competitive  
EEO Category: Professional  
Revised: 01/15/2020

## **INDUSTRIAL WASTE CHEMIST**

**DISTINGUISHING FEATURES OF THE CLASS:** This position involves responsibility for sampling and analysis of waste water as part of the industrial pre-treatment program. The incumbent chemically and bacteriologically analyzes industrial waste and/or wastewater to provide for the most efficient and effective results within plant design limitations. The work is performed under supervision of the Water Resources Chemist with leeway allowed for exercise of independent judgment in carrying out technical aspects of the work. Supervision is exercised over the work of laboratory technical personnel. The incumbent performs related work as required.

### **TYPICAL WORK ACTIVITIES:** (Illustrative Only)

Performs difficult and advanced physical, chemical, bacteriological and microscopic examinations of industrial waste and/or wastewater;

Obtains and periodically updates baseline monitoring reports from industries discharging into the Oneida County Sewer District;

Plans, assigns and reviews the work of subordinate laboratory personnel;

Makes technical recommendations as to the requirements of industrial waste discharge permits;

Reviews compliance schedule reports, supervising inspection of SIU's to certify accuracy of these reports and recommends action required to ensure the compliance schedule is met;

Reviews, analyzes and interprets technical data and reports submitted by subordinates;

Provides staff review of application for wastewater discharge permits submitted by local industries;

Maintains the SIU monitoring and sample program in accordance with the County Sewer Ordinance and approved Pretreatment Program;

Supervises assigned technicians in sampling and laboratory analysis of industrial wastes;

Prepares routine reports on Pretreatment Program and SIU's as required by State and Federal regulations;

Conducts research and special studies to aid in increasing plant efficiency and obtain improved results;

Reviews self-monitoring reports from SIU's in compliance with the Pretreatment Program;

Maintains a program to survey existing and new SIU to determine the nature of its operation;

Confers with governmental officials, industry representatives and other interested parties in regard to industrial waste matters;

Prepares accurate reports on results of the Pretreatment Program to identify SIU's which are not in compliance with Pretreatment Program requirements;

Aids laboratory personnel in detailed routine analysis of industrial samples;

Provides assistance to SIU's in interpreting and complying with the Sewer Ordinance and Pretreatment Program requirements insofar as sampling and analysis;

Instructs subordinates in proper laboratory procedures and in the care and use of laboratory equipment;

Notifies SIU's subject to final rules establishing categorical standards;

Prepares information required for semi-annual pretreatment reports to NYSDEC;

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**TYPICAL WORK ACTIVITIES (cont'd):**

Keeps informed on the latest developments in industrial waste chemistry and microbiology by the study of professional literature.

**FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Thorough knowledge of modern laboratory principles, practices, techniques, terminology, equipment and safety precautions; thorough knowledge of the modern practices, techniques and equipment used in chemical and bacteriological analysis of industrial waste; thorough knowledge of modern laboratory sampling techniques; a high degree of technical skill in the operation and care of modern laboratory equipment and apparatus; ability to plan and supervise the work of others; ability to understand and carry out complex technical directions.

**MINIMUM QUALIFICATIONS:** Either:

- (A) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's Degree in chemistry, chemical engineering, industrial waste engineering, or a closely related field, **AND** one (1) year of experience in industrial waste chemistry or sanitary chemistry; **OR**
- (B) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's Degree, including or supplemented by 30 credit hours in biology, chemistry or chemical engineering, **AND** two (2) years of experience in industrial waste chemistry or sanitary chemistry; **OR**
- (C) Graduation from a regionally accredited or New York State registered college or university with an Associate's Degree in chemistry, chemical engineering, industrial waste engineering, or a closely related field, **AND** three (3) years of experience in industrial waste chemistry or sanitary chemistry.

**SPECIAL REQUIREMENT:** Possession of a valid New York State driver's license at time of appointment. License must remain valid throughout appointment.

**NOTE:** Graduate study in chemistry, industrial waste, chemical engineering, environmental or wastewater chemistry may be substituted for the required experience on a year-for-year basis. Thirty semester credit hours equate to one year of experience.

Adopted: 06/27/1984

Revised: 09/27/1996; 10/22/2009; 08/10/2010; 04/26/2011; 11/28/2011; 01/15/2020