

Internal Transfer Opportunity			
JOB TITLE	Science Technician		
CLASS CODE	3G32	PREPARED BY	PWD HR
DATE LISTED	10/19/2021	CLOSING DATE	Until filled by transfer or appointment
JOB LOCATION	9001 State Road	Number of Positions	2
DIVISION/ UNIT	Operations/Baxter WTP	REPORTS TO	Science Technician Supervisor
POSITION DETAILS			
UNIT OVERVIEW	Baxter Treatment Plant is PWD's largest drinking water treatment plant. It is located in Northeast Philadelphia at 9001 State Road.		
POSITION OVERVIEW	The position is for rotating shift science technician. The rotating shift science technicians perform sampling and analysis for drinking water treatment process control. The Science Technician positions at Baxter rotate between three shifts, 7:30 AM to 3:30 PM, 3:30 PM to 11:30 PM, and 11:30 PM to 7:30 AM. These positions are manned 7 days per week, 365 days per year. This includes weekends and holidays.		
DUTIES AND RESPONSIBILITIES	<ul style="list-style-type: none"> Responsible for drinking water treatment process oversight; <ul style="list-style-type: none"> Performs water sampling in accordance with quality assurance/quality control (QA/QC) protocols at required process locations in the water treatment plant multiple times each shift Prescribes treatment chemical dosing based upon lab analysis, on-line process water quality data trends, treatment hydraulics, raw water quality, and process control standard operating procedures (SOPs) Responsible for river water quality monitoring to insure treatment capability; detecting early warning of changes in river water quality, oil or chemical spills or algae induced odor events Performs water quality physical or chemical analyses using a variety of instrumentation in conformance with Treatment Process Lab SOPs to meet EPA and Pennsylvania Department of Environmental Protection regulations. Performs laboratory analysis under the direction of a chemistry supervisor on day shift only; independent work on night, middle, weekend and holiday shifts; analytical work & chemical treatment dosage decision- making audited by supervision. Responsible for all quality assurance and quality control QA/QC documentation to insure laboratory methods meet regulatory requirements and Water Department standards. Maintains laboratory glassware and equipment including cleaning and calibration in accordance with QA/QC standards. Performs treatment chemical concentration testing to verify chemical deliveries meet PWD specifications. Collects & stores treatment chemical samples and completes chain of custody documentation for advanced laboratory analysis. Completes complex calculations each shift to ensure the disinfection process is in full compliance with EPA public health regulatory standards. Performs treatment jar testing analysis to determine the best coagulant dose to optimize treatment process particle, giardia & pathogen removal; performs UV254 & zeta potential analyses and utilizes data to confirm optimized coagulant dosage as effective Performs process control functions under the direction of an engineering supervisor on day shift only; independent work on night, middle, weekend and holiday shifts; chemical treatment decision- making & process control response audited by supervision. Inputs analytical data into a database and utilizes various software packages for data analysis and status reporting. Reports Corrective Maintenance & Instrumentation needs to Supervision. Monitors continuous on-line water quality trends to ensure water process quality meets acceptable operational limits & confirms the accuracy of on-line instrumentation trends; Responds with urgency to on-line instrumentation water quality alarms to verify the alarm condition and take appropriate action in accordance with SOPs or to identify on-line instrumentation failure and notify Operations and supervision. Responsible for Off-hour 24x 7 notifications in compliance with PWD Microbial Communication & Emergency Response Plan Notification protocol. Initiates special sampling during treatment process disruptions, emergency response conditions and for research projects as requested by supervision. <p>Utilizes Chemical Safety knowledge and PPE to responsibly and safely handle treatment chemical samples and analytical solutions; Completes monthly Safety Lab Checklist.</p>		
DIRECT REPORTS Y/N	N		

PWD employees interested in internal transfer opportunities must have permanent status in the title advertised above. If you are interested in being considered for this internal transfer opportunity please email your resume to Nicole Charlton at nicole.charlton@phila.gov and Oneather Kent-Fulton, HR Manager Oneather.kent-fulton@phila.gov