



INTERNAL TRANSFER OPPORTUNITY			
JOB TITLE	Environmental Engineer 1, 2, or Specialist		
CLASS CODE	3B61, 3B62, 3B74	PREPARED BY	PWD HR
DATE LISTED	8/18/2022	CLOSING DATE	Until filled by transfer or appointment
JOB LOCATION	Jefferson Tower, 1101 Market Street, 2 nd Floor	NUMBER OF POSITIONS	1
DIVISION/UNIT	Planning and Environmental Services/Planning and Research	REPORTS TO	Mekhana Scaria
GROUP	Applied Research Group/Research and Knowledge Management Program		
POSITION DETAILS			
UNIT OVERVIEW	The Planning and Research (P&R) Unit of the PWD provides long-term solutions through planning and research approaches for the City's drinking water and wastewater systems. The Applied Research Group (ARG) in Planning & Research focuses on the functions of applied research, innovative piloting opportunities, and knowledge management for the department into one cohesive program. The combined mission of this group is to conduct process, regulatory, and innovative research, to pilot innovative and cost-effective processes and technologies, and to track and manage the research portfolio of the department and our external partners.		
POSITION OVERVIEW	The Research and Knowledge Management Program is primarily responsible for facilities regulatory research, including air emissions reporting and permitting support, lead and copper planning and inventorying, corrosion control research, disinfection research, and many other similar activities. The program will also be responsible for coordinating with many of our professional organization partners (such as the Water Research Foundation, America Water Works Association, and ISLE technologies) to act as a liaison between PWD and the larger research community. A graduate environmental engineer will support many of the program's lead related efforts, including the development of a lead service line inventory, a lead replacement plan, corrosion control research, and pipe loop planning. They will also assist in other program areas as needed. Organizational, communication, data analytics, and technical writing skills are core competencies necessary to effectively perform the duties of this position.		
DUTIES AND RESPONSIBILITIES	An ideal candidate will partake in varying assignments across the spectrum of Water and Wastewater research topics. Daily tasks include project scoping, sampling to support existing research projects, desktop research, summary reporting, and engineering analyses. These tasks may include the following: <ul style="list-style-type: none">• Collection of research samples from the mobile pilot plant.• Working with modeling languages such as R and Python for predicting the lead service lines in the system• Coordinate with multiple units within the Department to collect the information on lead service lines• Researching and understanding the lead service line inventories done by other utilities• Maintaining the lead service inventory for other potential tasks such as pitcher filter distribution and annual reporting• Communicating and engaging with internal stakeholders on the Department's lead service line inventory and other related tasks• Evaluating emerging non-invasive lead service line identification technologies that would be suitable for the Department• Conduct corrosion control research that includes planning for pipe loop studies and other distribution system research• Conducting literature reviews for various research projects• Sampling of water and wastewater for various research projects• Compiling, analyzing, and interpreting data collected from the sampling events• Preparing and reviewing engineering technical reports		
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 Mekhana Scaria at mekhana.scaria@phila.gov, Adam

Hendricks, at adam.hendricks@phila.gov, and Oneather Kent-Fulton, HR Manager, at Oneather.kent-fulton@phila.gov. You must indicate the opportunity and unit you are interested in in the subject line of your email.