

## JOB ANNOUNCEMENT

**POSITION:** Green Infrastructure Engineer  
**DIVISION:** Engineering & Construction  
**SALARY:** To be determined

**POSTED:** March 21  
**APPLICATION DEADLINE:**  
Open until filled

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**POSITION SUMMARY:** The Pittsburgh Water & Sewer Authority (PWSA) is seeking a designer/engineer to coordinate stormwater management related engineering and construction services for its Green Infrastructure (GI) and Integrated Watershed Management (IWM) programs. The GI-focused Engineer will perform technical engineering and design services to plan, coordinate, and implement PWSA's Green Infrastructure Program. The work is carried out with the support of in-house engineering and administrative staff supplemented by consultant specialists.

This position serves as a key technical component of the PWSA's GI team. The PWSA is leading the Pittsburgh region in incorporating green techniques for managing stormwater and improving water quality. The ideal candidate has experience designing green infrastructure projects in urban settings and can apply their knowledge to Pittsburgh's unique topography and soils.

The ideal candidate must be innovative, solution-oriented, and a team player with a passion for addressing stormwater and other related environmental issues in a holistic way. This candidate should be prepared to manage the multifaceted technical aspects of the PWSA GI Program which is being developed with the focus of reducing sewer overflows, improving water quality, and increasing green development. The GI Engineer position is a unique opportunity to help shape and develop this high priority Program. For details of the PWSA's Green Infrastructure Program, see <http://pgh2o.com/going-green>.

### DUTIES:

- Design, review, and manage the construction of GI and IWM facilities.
- Perform GIS and ArcHydro analysis of priority sewersheds throughout the City and region.
- Prepare and issue technical specifications, data sheets, and other construction documents for GI projects.
- Review drawing submittals and assist in performing technical bid analyses.
- Manage monitoring project data and refine PWSA's monitoring protocol as necessary.
- Work cooperatively with internal staff, construction managers, and consultant engineering firms to conduct system-wide GI alternative assessments and cost/benefit analysis.
- Work with consultants to perform technical analyses required to create IWM Plan.
- Perform the data collection and technical analyses to evaluate and demonstrate the economics and efficacy of GI and IWM in attaining regulatory compliance.
- Coordinate interaction on technical issues between the PWSA and other public agencies.
- Recommend additional tools or materials that can advance the performance of green infrastructure.
- Update PWSA's Procedures Manual to incorporate GI and IWM.
- Assist in preparation and delivery of presentations to the public and PWSA Board of Directors on GI-related issues.
- Provide technical support to the GI Program Manager and GI Technical Coordinator.
- Other duties and projects as assigned.

## **KNOWLEDGE/ABILITIES:**

- Knowledge and experience designing GI Best Management Practices (BMPs) and Low Impact Design (LID) stormwater management systems.
- Ability to design effective stormwater management facilities.
- Knowledge of IWM techniques.
- Knowledge of urban hydrology and infiltration issues (preferably specific to the Pittsburgh region).
- Knowledge of National Pollutant Discharge Elimination System (NPDES) and state stormwater requirements, including compliance with Total Maximum Daily Loads (TMDLs), MS4s, and COAs.
- Knowledge of and experience with water quality monitoring and data collection technologies.
- Knowledge of public administration, public policy development, and urban planning principles.
- Ability to effectively analyze and/or develop programs, policies, and initiatives to define stormwater flows, quantity, and impact to overall water quality.
- Ability to manage projects and coordinate programs with other City administrative offices.
- Ability to develop and maintain positive relations with other departments and agencies and facilitate collaborative planning and design processes.
- Excellent verbal and written communications skills.
- Familiarity with MicroStation is preferred.

**EDUCATION REQUIREMENT:** In order to be considered eligible for this position, the application must clearly show a bachelor's degree in Civil or Environmental Engineering, or equivalent education.

**EXPERIENCE REQUIREMENT:** In order to be considered eligible for this full-time position, the application must clearly show three (3) to five (5) years of progressive experience in planning, design, and construction of GI related facilities, stormwater management, wet weather project implementation, and/or regulatory compliance. Possession of an Engineer in Training (EIT) or Professional Engineer's License (PE) is preferred. Must have demonstrated ability to coordinate and manage complex projects involving competing interests and multiple objectives while objectively evaluating alternative approaches.

**GENERAL REQUIREMENTS:** Successful candidate must be or become domiciled within the City of Pittsburgh by the time of appointment, and remain domiciled within the City of Pittsburgh throughout employment with the PWSA. Verification of City domicile is required at time of appointment.

Applicant must present a current, valid Class C (Class I) Pennsylvania Motor Vehicle Operator's License at time of application or prior to appointment. A valid driver's license must be maintained throughout employment.

**APPLICATIONS:** Email cover letter and resume to [hr@pgh2o.com](mailto:hr@pgh2o.com) or send via first class mail to the Pittsburgh Water and Sewer Authority, Human Resources Department, Penn Liberty Plaza I, 1200 Penn Avenue, Pittsburgh, PA 15222

**AN EQUAL OPPORTUNITY EMPLOYER**