

2022 DDOT Internship Program

Research, Development & Technology Transfer

Green Infrastructure Permeable Pavement

Over the past decade, the District Department of Transportation (DDOT) has constructed hundreds of green infrastructure facilities within the public right-of-way including permeable pavements in parking lanes, alleys, sidewalks, roadways, and trails. The DDOT Green Infrastructure team aims to investigate monitoring strategies for permeable pavement facilities within the public right-of-way (ROW).

Project Description

This project aims to investigate monitoring of permeable pavement including current performance, performance connected to site conditions, and evaluation of restoration techniques of permeable pavement practices within the ROW. Previously, some inspection, monitoring, and restoration has been completed by DDOT and the District Department of Energy and Environment. This information, as well as researching best practices will serve as a foundation for building a proposal for DDOT to conduct monitoring and restoration of permeable pavement facilities citywide. The intern will research monitoring and evaluation techniques, develop a plan to monitor and evaluate permeable pavement facilities and subsequently incorporate feedback into standard practices for new projects and retrofits. The intern will develop a plan that includes restoration of poor performing facilities and evaluation of restoration techniques. The outcome of the project includes a monitoring plan and proposal to enact the plan including estimates and equipment needs developed by the intern.

Intern Skills

- The intern should possess knowledge of research, green infrastructure/low impact development, storm water management, with the ability to understand technical elements of cooling strategies.
- Excellent oral and written communication skills are essential.
- Strong analytical abilities.
- Relevant research experience with storm water management, green infrastructure, water quality monitoring, or transportation project implementation is preferred.
- Working knowledge of Microsoft applications, such as Word, Excel, PowerPoint, etc.

Educational Background

Undergraduate or graduate students in environmental science, civil or environmental engineering, or landscape architecture preferred.

Bi-weekly stipends range from \$1,400 to \$1,600

To apply, visit www.hutrc.org/internships