2016 Research Internship Summer Program
Research, Development, and Technology Transfer Program

POSITION 07: GIS PYTHON DEVELOPER INTERN

Description

DDOT is rapidly moving towards a map-based, GIS inventory of all its assets. The purpose of this library is to identify and flag potential errors and conflicts in the data. Last year, great strides were made in updating DDOT’s modular Python script library that can be used on multiple assets. This position will improve DDOT’s python-based GIS assets QA/QC script library.

This position’s work will be two-fold:
1. Validate and improve the interoperability/portability of the existing Python codebase.
2. Migrate existing logic to one or more geoprocessing Web services to be used by DDOT asset management systems

Intern Skills:

• Qualified candidate should have extensive experience using GIS to solve complex analytical problems (2 years demonstrated work where primary responsibility was GIS or 2nd year Geography/GIS grad school, minimum).
• Candidates should also have good familiarity with the Python programming language, specifically within the context of GIS (using ESRI's arcpy module).
• Familiarity with Python standard and external libraries (such as requests) is a plus.

A brief technical competency test will be administered as part of the application process.