

2016 NYC SUMMER INTERNSHIP PROGRAM

AGENCY NAME

NYC DEPARTMENT OF TRANSPORTATION

DIVISION

DOT-008-ITT-Transportation Asset GIS Data Development

ADDRESS1 55 Water Street, 8th Floor

ADDRESS2 New York, NY, 10041

CONTACT NAME Sue Grecke

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PHONE

FAX

AGENCY DESCRIPTION (Max characters 3000)

DOT's mission is to provide for safe, efficient and environmentally responsible movement of people and goods in the City of New York and to maintain and enhance the transportation infrastructure crucial to the economic vitality and quality of life of our primary customers, City residents.

Our Department serves all residents of New York City as well as commuters, tourists and other visitors that use our City's streets, sidewalks, waterways and public plazas. We also serve the trucking industry and other businesses that rely on our transportation infrastructure for their business needs. We serve users across different modes and needs including: pedestrians, cyclists, motorists, truck drivers, the elderly, the disabled and the very young.

UNIT DESCRIPTION (Max characters 1000)

GIS

The New York City Department of Transportation (DOT) manages all of NYC's street and street furniture assets. The division seeks to expand upon the current capability of GIS data creation, analysis and LIDAR data management. This project involves using GIS raster and LiDAR datasets to determine streets conditions and assess ratings. Project include collating LiDar datasets from several data sources to create a central repository for the analysis. Information about street cuts and refurbishments from over 20 years can be used to validate the analysis. Additionally task involves maintenance of transportation assets such as Speed Limit, Traffic Direction, Truck Route etc. on NYC Street Centerline file.

POSITION TITLE (Max characters 100)

College Aide

INTERNSHIP RESPONSIBILITIES (Max characters 1500)

Graduate Student

The GIS intern will support activities in the development of several DOT datasets using ArcMap toolsets/extensions/add-ins, scripts and in-house tools during QA/QC process. Create python scripts to automate data related tasks. Work with LiDAR datasets and point cloud data formats. The GIS intern will be expected to be a fast learner and will be required to implement solutions while learning new technology. Produce high quality data sets and map products. Identify and report on suspected data errors encountered during data creation. Make informed recommendation for improving map templates for ongoing maintenance of map products. Meet or exceed schedule deadlines and report progress as required.

QUALIFICATIONS/SPECIAL SKILLS/AREA OF STUDY (Max characters 1500)

Graduate Student

Major: Geography, Urban Planning, Urban Affairs, GIS, Computer Science, Computer Information System or related fields.

Must have experience with data creation, editing and QA/QC experience with ArcMap 10.x tools and extensions. Must have python scripting experience with ArcPy & other python libraries such as psycopg, scipy,etc. Familiarity with LiDAR datasets & point cloud data processing & Open Sources (QGIS, PostgreSQL, PostGIS, Leaflet), JavaScript libraries, modern mapping API's a plus.

APPLICATION PROCESS (Max characters 700)

E-mail resume with cover letter to: sgrecke@dot.nyc.gov

SALARY RANGE

14.15 per hour

Internship may be used to fulfill college credit requirement

ADDITIONAL INFORMATION / COMMENTS (Max characters 700)

While school is in session, the College Aide is asked to work 17 hours a week. We will work with your schedule. While on summer break, the student is asked to work up to 35 hours a week. We do not work evenings or weekends.