

2016 NYC SUMMER INTERNSHIP PROGRAM

AGENCY NAME

NYC DEPARTMENT OF TRANSPORTATION

DIVISION

DOT-005-TO-Traffic Operations Signals & ITS Engineering

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)

Researching new technologies aimed at improving the safety and mobility of the transportation network.

POSITION TITLE (Max characters 100)

Summer Intern

INTERNSHIP RESPONSIBILITIES (Max characters 1500)

The candidate will be trained and responsible for researching any new technologies that could improve and play a key role in the transportation network, including an individual's ability to obtain information about their trip and on their path of travel. The candidate will be trained in assisting with other office duties relating to traffic simulation software scripts and coding, development of the Division's new TSP corridor maintenance workstation, and the review of the new web-based applications involving the management of real-time travel time information obtained from MTA's BusTime.

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

Undergraduate

Major: Economics and Computer Science
Programming, Script writing/coding

Candidate should have strong computer knowledge of Communication systems (DSRG, 4G, Wi-Fi), Bluetooth technology, Smart Phones, Microsoft Word, Excel, and PowerPoint.

Knowledge of programming and writing computer scripts/coding.

Projects include the research of various technologies to improve the safe and efficient travel of those with visual and cognitive disabilities. In addition, TSP projects involving the use of traffic modeling analyses (Aimsun) may require the need for coding and script writing to enhance the software's accuracy and versatility. Other projects may include working on the on-going development of the Division's Transit Signal Priority (TSP) workstation which continually monitors the daily operational status of TSP implemented along the various SBS corridors citywide. Also, projects involving the review/critiquing of a web-based application that takes advantage of the MTA's on-going in-house data development efforts and expertise in the area of BusTime Data management. The web-based application would allow users access to the MTA data and include functionalities to create customized reports that can be used for planning and eventually real-time or near real-time travel time estimation or congestion management projects.

APPLICATION PROCESS (Max characters 700)

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

SALARY RANGE

12.38 per hour

Internship may be used to fulfill college credit requirement

ADDITIONAL INFORMATION / COMMENTS (Max characters 700)

Summer Interns work 35 hrs a week and the assignment ends on August 26, 2016.