DESCRIPTION

DDOT is responsible for the synthesis and analysis of vehicular traffic crashes for the District of Columbia. DDOT analyzes detailed crash data and produces a 2-year traffic safety report which gives a summary analysis of traffic crash conditions in the District of Columbia. The primary focus of this internship is to make an interactive version of the DDOT crash data report using modern dataviz technologies and approaches. Below are the primary tasks of this internship:

1. Recreate major statistical reports found within the traffic safety report using available business intelligence (BI) tools at DDOT.
   - Where appropriate and with DDOT approval, use other tools to make visualizations more compelling/complete.
2. Perform spatiotemporal exploratory data analysis on crash data using other visualization/analysis tools to reveal patterns and trends.
3. Document processes and techniques used to recreate all visualizations and statistics above. All scripts and code must be rigorously documented to DDOT’s specifications.

Note: While this internship will be managed within the IT department, the intern will work closely with the DDOT Traffic Safety team to ensure that there is a full understanding of the statistical reports and data.

INTERN SKILLS:

- Qualified candidates should have experience making interactive data graphics using business intelligence (BI) tools such as Tableau, Qlik and/or programming languages such as JavaScript, Python and R and the charting and visualization libraries which accompany them.
- GIS experience is a huge plus as most of the data have a geographic location.
- General comfort with numbers is essential as is familiarity with accessing data via enterprise databases and/or web APIs.