

# Research Associate

## Transportation Engineering & Analysis

C<sup>2</sup>SMART Center  
New York University  
Tandon School of Engineering



C<sup>2</sup>SMART is a Tier 1 USDOT University Transportation Center led by NYU's Tandon School of Engineering that aims to accelerate transportation opportunities arising from unprecedented recent advances in communication and smart technologies.

C<sup>2</sup>SMART is studying challenging transportation problems and field-testing & implementing novel solutions in close collaboration with users, government agencies, policy makers, private companies, & entrepreneurs. Its research covers all aspects of transportation with a focus on disruptive technologies such as connected travelers, autonomous vehicles, shared mobility, & the Internet of Things.



**NYU**

**TANDON SCHOOL OF ENGINEERING**

Department of Civil & Urban Engineering

The C<sup>2</sup>SMART Center is seeking a Research Associate to assist with the technical aspects of transportation research projects being conducted at the center. As a member of a new research center, the candidate will be instrumental in programming and coding in support of center work, as well as developing and maintaining databases and network infrastructure that will be relied upon for C<sup>2</sup>SMART's project and research activity. This candidate will work closely with C<sup>2</sup>SMART faculty and leadership staff in:

- Designing automated solutions to using big data in support of model and simulation development as well as data analysis
- Developing web-based database solutions for the Center's activities as well individual projects and related data, in compliance with the Center's data management plan and federally required guidelines
- Organizing and helping maintain C<sup>2</sup>SMART's commercial and in-house software libraries per NYU and center-prescribed policies
- Rigorously documenting all designed infrastructure and processes to facilitate seamless technology transfer and transition

In addition, the candidate will also be asked to provide technical guidance to faculty, staff, and students in developing algorithms and scripts, as well as contributing towards the design and development of new tools as required by sponsored projects.

The requirements for this position are as follows:

- A graduate degree in Transportation Engineering, Data Science, Computer/Electrical Engineering, Computer Science, or related field
- Experience in developing scripts for data analysis and processing in languages such as Python, Java, C++, and related
- Experience with web-based data solutions, relational databases (such as Oracle, MySQL), and knowledge/experience with NoSQL and Open Source technologies (such as Hadoop, Parquet, MongoDB, etc.)
- Working knowledge of data visualization tools and frameworks such as D3, jQuery, and experience in web development and associated languages and libraries (PHP, CSS, HTML, Javascript)

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