# Transportation Engineering Researcher
# University of Wisconsin, Milwaukee



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| **Job Title** | Transportation Engineering Researcher |
| **Department** | Institute for Physical Infrastructure and Transportation<br>https://uwm.edu/ipit/ |
| **Institution** | University of Wisconsin, Milwaukee<br>Milwaukee, Wisconsin |
| **Date Posted** | May 3, 2024 |
| **Application Deadline** | Open until filled |
| **Position Start Date** | Available Immediately |
| **Job Categories** | Post-Doc |
| **Academic Field(s)** | Transportation Engineering<br>Industrial & Systems Engineering<br>Electrical and/or Electronics<br>Computer Engineering<br>Computer Science<br>Civil Engineering |
| **Apply By Email** | qinx@uwm.edu |

**Job Description**

University of Wisconsin-Milwaukee (UWM) is a doctoral/research intensive university and Wisconsin's premier public urban institution. UWM is one of the nation's top 131 research universities (R-1 status) as recognized by the Carnegie Classification of Institutions of Higher Education. Operating within the College of Applied Science and Engineering (CEAS), UWM's Institute for Physical Infrastructure and Transportation (IPIT) (https://uwm.edu/ipit/) is looking for a highly motivated research associate to lead transportation research, focusing on application of video/image processing technology in transportation and development of web-based platforms.

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## DUTIES AND RESPONSIBILITIES

- Independently conduct research and complete required tasks.
- Write technical reports and research papers.
- Contribute to or lead grant writing.
- Supervise graduate/undergraduate students on projects.

## MINIMUM QUALIFICATIONS

- Ph.D. in Transportation Engineering, System Engineering, Computer Science, or a closely related discipline.
- Hands-on experience with statistical models, one or more skills in AL & ML, Neural Networks, Computer Vision & NLP
- Evidence of ability to independently conduct research.
- Excellent written and verbal communication and interpersonal skills.

## PREFERRED QUALIFICATIONS

- Demonstrated experience in applying traditional and new data sources to develop systemic and/or predictive methods for safety analysis.
- Demonstrated experience in GIS applications and spatial analysis in transportation.
- Proficiency in integrating and analyzing traffic data from various sources, including sensor data and crowdsourcing, to enhance transportation infrastructure planning and safety.
- Experience of applying image and video analytics in transportation systems analysis.
- Programming experience with web development (frontend, backend, database management, APIs), python programming experience in big data processing, database design, operations and management (e.g., SQL/MySQL), and data visualization.

This is a full-time 12-month position with possible renewal. Salary is commensurate with successful candidate's background and experience.

## TO APPLY

For full consideration, please submit your CV, cover letter, a research statement and contact information for two (2) professional references in a single pdf file to Dr. Xiao Qin at qinx@uwm.edu. Please use “IPIT job application” in the email subject line. Review of application will begin immediately and continue till the position is filled.

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## EEO/AA Policy

The University of Wisconsin-Milwaukee is an AA/EEO employer committed to increasing diversity in recruitment and retention and advancing our University as an inclusive campus.

## Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Xiao Qin
Institute for Physical Infrastructure and Transportation
University of Wisconsin, Milwaukee
Milwaukee, WI

**Contact E-mail** qinx@uwm.edu