Post-doc Research Associate
University of Wisconsin, Milwaukee

Job Title	Post-doc Research Associate
Department	Institute for Physical Infrastructure and Transportation
	https://uwm.edu/ipit/
Institution	University of Wisconsin, Milwaukee
	Milwaukee, Wisconsin
Date Posted	Feb. 19, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Transportation Engineering
	Industrial & Systems Engineering
	Computer Engineering
	Computer Science
	Civil Engineering
Apply By Email	qinx@uwm.edu

Job Description

About the job

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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.

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 Machine Learning algorithms and tools, especially image or video analysis techniques.
- Evidence of ability to independently conduct research.
- Excellent written and verbal communication and interpersonal skills.

PREFERRED QUALIFICATIONS

- Demonstrated experience in applying deep learning techniques for image processing in the context of transportation systems analysis.
- Proficiency in integrating and analyzing traffic data from various sources, including sensor data and crowdsourcing, to enhance transportation infrastructure planning and safety.
- 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.
- Demonstrated research experience in applying traditional and new data sources to develop systemic and/or predictive methods for safety analysis.

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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 by Friday, March 8, 2024 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.

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.

EEO/AA Policy

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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