

Post-Doctoral Research Fellow: Urban Pedestrian Safety  
Analytics  
Wayne State University

Direct Link: <https://www.AcademicKeys.com/r?job=258997>

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Posted Jul. 2, 2025, set to expire Nov. 1, 2025

<b>Job Title</b>	Post-Doctoral Research Fellow: Urban Pedestrian Safety Analytics
<b>Department</b>	Civil and Environmental Engineering
<b>Institution</b>	Wayne State University Detroit, Michigan
<b>Date Posted</b>	Jul. 2, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Transportation Engineering Civil Engineering

**Apply By Email**

**Job Description**

Wayne State University seeks an energetic post-doctoral researcher to join a National Safety Council Road to Zero project focused on reducing pedestrian crashes along Detroit's suburban-type arterials. The 12-month, grant-funded position begins as soon as available (target ? 1 September 2025) and offers a competitive salary of plus full University benefits.

**What You'll Do**

- Fuse crash records, Miovision signal data, connected-vehicle speed feeds, and video-derived conflict metrics (PET, driver-yield compliance, etc.) into a unified analytic platform.
- Develop surrogate-safety and injury-severity models (GLMM, time-to-event, latent class, or ML).
- Coordinate field data collection with GoPro and trailer-mounted cameras.
- Translate findings into policy briefs, conference papers (e.g., TRB 2026), and agency deliverables for Detroit DPW, MDOT, and community advocacy partners.

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- Mentor one graduate assistant and contribute to grant reporting.

**Required Qualifications**

- Ph.D. in Civil/Transportation Engineering, Urban Planning, Data Science, or related field earned by start date.
- Demonstrated research in traffic safety analysis or computer-vision–based conflict detection.
- Proficiency in Python or R for statistical/ML modeling and data wrangling.
- Strong written and verbal communication skills and comfort engaging non-technical stakeholders.

**Preferred Extras**

- Experience with connected-vehicle, signal controller, or high-frequency trajectory data.
- Familiarity with Safe System/Vision Zero frameworks.
- Record of peer-reviewed publications and successful research collaboration.

**Why Wayne State & Detroit?**

Join a vibrant urban research university with deep city partnerships, affordable living, and a fast-growing mobility innovation ecosystem. You will work directly with city and state agencies on problems with immediate real-world impact.

**How to Apply — Rolling Review Begins 16 July 2025**

Email a single PDF to [slavrenz@wayne.edu](mailto:slavrenz@wayne.edu) containing:

1. Cover letter (? 2 pages) linking your expertise to the project.
2. CV.
3. One representative publication.
4. Contact information for three references.

Applications are reviewed as received; early submissions may be interviewed within 72 hours. Position remains open until filled.

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Wayne State University is an equal opportunity/affirmative action employer. Women, minorities, individuals with disabilities, and veterans are strongly encouraged to apply.

**Contact Information**

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

**Contact** Steven Lavrenz  
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