

## SCIENTIST I

### University of Wisconsin - Milwaukee

Direct Link: <https://www.AcademicKeys.com/r?job=248742>

Downloaded On: Nov. 23, 2024 7:09am

Posted Nov. 12, 2024, set to expire Mar. 11, 2025

<b>Job Title</b>	SCIENTIST I
<b>Department</b>	Engineering & Applied Science
<b>Institution</b>	University of Wisconsin - Milwaukee Milwaukee, Wisconsin
<b>Date Posted</b>	Nov. 12, 2024
<b>Application Deadline</b>	12/10/2024
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Research Scientist/Associate
<b>Academic Field(s)</b>	Computer Science Civil Engineering Computer Science
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**Job Description**

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**SCIENTIST I**

**Position Number:**

**Introduction (Description of School/College/Dept/Program)**

The College of Engineering & Applied Science (CEAS) is committed to excellence in scholarly

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research and teaching across all seven departments-Biomedical Engineering, Civil and Environmental Engineering, Computer Science, Electrical Engineering, Industrial and Manufacturing Engineering, Materials Science and Engineering, and Mechanical Engineering. The College has approximately 1750 undergraduate students and 450 graduate students, both Masters and Doctoral. Greater Milwaukee, the third-ranked manufacturing center in the United States, is home to 400+ engineering firms and 1300+ manufacturing firms with annual receipts of 24 billion dollars. The College has a long history of industrial collaboration and research support. More information about the College can be found at <http://uwm.edu/engineering/>.

The College of Engineering & Applied Science invites applications for a **Scientist I** position working in the Institute for Physical Infrastructure and Transportation (IPIT). The Institute for Physical Infrastructure and Transportation (IPIT) (<https://uwm.edu/ipit/>) is an umbrella organization at the University of Wisconsin-Milwaukee that fosters multidisciplinary research activities. IPIT was founded in 2017 to address the challenges faced by our state and nation. We aspire to be a national leader in improving physical infrastructure to support and enhance the mobility of people and goods, economic development, public safety, and health. Our mission is to offer solutions through research, innovation, collaboration, education, workforce development, and technology transfer.

### Job Summary

Conducts and collaborates on transportation engineering research in the field of Civil Engineering and contributes to advancing innovations in traffic safety and operations. Identifies and addresses research challenges, designs and implements innovative research methodologies and prepares findings for presentations to sponsoring agencies and for scholarly publications.

- Identify research questions and develop robust methodologies and procedures to address them.
- Lead or collaborate in the preparation of grant applications and proposals to secure funding for research projects.
- Collect, analyze, and interpret research data (e.g., safety data, traffic data, vehicle data), conduct studies and interviews, and meticulously document results, operating under general supervision with significant autonomy.
- Conduct comprehensive literature reviews, prepare detailed reports, and disseminate findings to relevant stakeholders.
- Participate in and facilitate scholarly events, presentations, and professional development activities to further research dissemination.

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- Serve as the point of contact and liaison with external stakeholders, representing the specialized research area, particularly in pedestrian and bicycle counting and safety

#### Minimum Qualifications

- Ph.D. degree in Transportation Engineering, System Engineering, Computer Science, or a closely related discipline
- Statistical modeling skills
- One or more skills in AI & ML, Neural Networks, Computer Vision & NLP

#### Preferred Qualifications

- Demonstrated experience in applying traditional and new data sources to develop novel mobility applications
- Proficiency in integrating and analyzing 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
- Experience in independent grant writing
- Experience in project management

#### Application Instructions

##### Applicants must submit:

- A cover letter addressing your education/experience as it applies to all minimum and preferred qualifications

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- A resume/CV
- A document listing the names, positions, and contact information (phone & email) for three professional references. Finalists will be expected to submit 3 reference letters.

In instances where the Search and Screen Committee is unable to ascertain from a candidate's application materials whether they meet any of the qualifications, they will be evaluated as not meeting such qualifications.

#### **Application Notes**

For this position, applicants are required to apply online. UWM will not consider paper, emailed or faxed applications. Additionally, applicants must complete all required fields and attach any required documents. The process is complete when the message "Your application has been submitted" is displayed and you receive a confirmation number.

#### **Legal Notices**

##### **AA/EO Statement**

UWM is an AA/EO employer: All applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, sexual orientation, gender identity/expression, disability, or protected veteran status.

##### **Reasonable Accommodations**

UWM provides reasonable accommodations to qualified individuals with disabilities who are employees or applicants for employment. Employment opportunities will not be denied because of the need to make reasonable accommodations for a qualified individual with a disability. If you need assistance or accommodation in applying because of a disability, please contact [uwm-jobs@uwm.edu](mailto:uwm-jobs@uwm.edu) or 414-229-4463. This job announcement and other material on this site will be made available in alternate formats

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upon request to an individual with a disability.

### **Confidentiality of Applicant Materials**

UWM is a State agency and subject to Wisconsin's Open Records Law. UWM will not, however, reveal the identities of applicants who request confidentiality in writing except as may be required by Wisconsin's Open Records law. In certain circumstances, the identities of "final candidates" and/or the identity of the appointed applicant must be revealed upon request.

### **CBC and Reference Check Policy**

Employment will require a criminal background check. UWM takes the prevention of sexual misconduct seriously. As such, you and your references will be required to answer questions regarding any past findings of sexual violence and sexual harassment or any pending allegations of sexual violence or sexual harassment.

### **Annual Security and Fire Safety Report (Clery Act)**

For the UWM Annual Security and Fire Safety Reports (i.e., Clery Report), which includes statistics about reported crimes and information about campus security policies, see <http://www.cleryact.uwm.edu/>, or call UWM's Dean of Students Office, Student Union 345 at (414) 229-4632 for a paper copy.

### **Employment Authorization**

In compliance with federal law, all persons at the time of their start date will be required to verify

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identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire.

To apply, please visit: <https://jobs.uwm.edu/postings/39676>

**Contact Information**

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

**Contact**

Engineering & Applied Science  
University of Wisconsin - Milwaukee

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