

Assistant Research Professor  
Worcester Polytechnic Institute

Direct Link: <https://www.AcademicKeys.com/r?job=253948>

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Posted Mar. 4, 2025, set to expire Jul. 1, 2025

<b>Job Title</b>	Assistant Research Professor
<b>Department</b>	Mechanical & Materials Engineering
<b>Institution</b>	Worcester Polytechnic Institute Worcester, Massachusetts
<b>Date Posted</b>	Mar. 4, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Assistant Professor
<b>Academic Field(s)</b>	Mechanical Engineering
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**Job Description**

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**JOB TITLE**

Assistant Research Professor

**LOCATION**

Worcester

**DEPARTMENT NAME**

Mechanical & Materials Engineering

**DIVISION NAME**

Worcester Polytechnic Institute - WPI

**JOB DESCRIPTION SUMMARY**

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This position is in the Mechanical and Materials Engineering (MME) and works with the Autonomous Vehicle Mobility Institute (AVMI). This position is to support applied research on the development and application of off-road autonomous vehicle mobility. It involves working with an interdisciplinary team of world-class engineers, students, and scientists in the area of autonomous vehicles mobility. The Assistant Research Professor position requires a PhD degree in mechanical engineering or a related field, and is expected to lead and contribute to:

### **JOB DESCRIPTION**

- Autonomous Driving System: Real-Time Control of Maneuver and Energy Efficiency, and Dynamic Path Planning Strategy Based Visual Sensing
- Assessment and Virtualization of Tire-Soil Interactions for Real-Time Evaluation and Control of Autonomous Vehicle Mobility
- Rotation Kinematics Sensor for a Fully Electric Vehicle: Multi-Domain Modeling, Hardware Prototyping and Experimental Research
- Fully Electric Virtual Vehicle Demonstrator with Distributed Driveline and Suspension Systems
- Electrically-Driven Wheel Locomotion Module Virtual Demonstrator with Agile Sensing
- Mobility and Energy Efficiency Improvement of An Unmanned Ground Vehicle with Individually Controlled Wheels
- Use of AR, VR, and MR for real-time simulation.

### **FLSA STATUS**

United States of America (Exempt)

**WPI is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. It seeks individuals from all backgrounds and experiences who will contribute to a culture of creativity, collaboration, inclusion, problem solving, innovation, high performance, and change making. It is committed to maintaining a campus environment free of harassment and discrimination.**

To apply, visit: [https://wpi.wd5.myworkdayjobs.com/en-US/WPI\\_External\\_Career\\_Site/job/Worcester/Assistant-Research-Professor\\_R0003097](https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Worcester/Assistant-Research-Professor_R0003097)

### **About WPI**

WPI is a vibrant, active, and diverse community of extraordinary students, world-renowned faculty, and

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state of the art research facilities. At WPI, we have competitive and comprehensive benefits, including health insurance, long-term care, retirement, tuition assistance, flexible spending accounts, work-life balance and much more.

### **Diversity & Inclusion at WPI**

WPI is committed to creating an inclusive workplace where everyone feels valued and respected; a place where every student, faculty and staff member can be themselves, so that they can study, live, and work comfortably, to reach their full potential, and make meaningful contributions in order to meet departmental and institutional goals. WPI thrives on innovative practice and welcomes diverse perspectives, insight, and people from diverse lived experiences, to enhance the community environment and propel the institution to the next level in a competitive, global marketplace.

### **Contact Information**

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

#### **Contact**

N/A

Worcester Polytechnic Institute

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