

Research Scientist  
Worcester Polytechnic Institute

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Posted Jan. 23, 2025, set to expire May 22, 2025

<b>Job Title</b>	Research Scientist
<b>Department</b>	Mechanical Engineering
<b>Institution</b>	Worcester Polytechnic Institute Worcester, Massachusetts
<b>Date Posted</b>	Jan. 23, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Research Scientist/Associate
<b>Academic Field(s)</b>	Mechanical Engineering
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**Job Description**

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**JOB TITLE**

Research Scientist

**LOCATION**

Worcester

**DEPARTMENT NAME**

Mechanical Engineering - NFR JM

**DIVISION NAME**

Worcester Polytechnic Institute - WPI

**JOB DESCRIPTION SUMMARY**

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Research scientist with experimental and computational experience in fatigue and high temperature of metals fabricated by conventional and additive manufacturing methods.

WPI is passionate about creating an inclusive workplace that promotes and values diversity. We are looking for candidates who can support our commitment to equity, diversity and inclusion.

### **JOB DESCRIPTION**

The successful candidate will be engaged in experimental investigations and modeling of thermal history and fatigue and high temperature damage and failure mechanisms in aluminum, titanium, and nickel-based alloys fabricated by both conventional and additive manufacturing methods. The candidate should have extensive knowledge of materials science (fatigue, thermo-mechanical fatigue, and creep, fracture mechanics and life predictions, materials processing and microstructures, dislocation mechanisms, stress analysis), experimental engineering experience (specimen preparation using CNC machining, mechanical testing, metallography and fractography - scanning and transmission electron microscopy are required), and excellent analytical and computational modeling skills (advanced knowledge of MATLAB and Ansys are required; crystal plasticity modeling is highly desirable). Responsibilities will include design of experiments for fatigue, thermo-mechanical fatigue, and creep investigations, implementation of novel testing and analysis schemes, and development of computational modeling tools. The researcher should be prepared to work in a fast-paced environment, which requires regular reports and presentations to research sponsors. Written and oral communication skills are essential requirements.

### **Required Documents:**

- Cover Letter
- Curriculum Vitae
- List of References

WPI requires employees to be fully-vaccinated (including a booster shot) for COVID-19. For additional information on WPI's response to COVID-19, refer to <https://www.wpi.edu/we-are-wpi>

### **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. We are seeking individuals with diverse backgrounds and experiences who will contribute to a culture of creativity and collaboration,**

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**inclusion, problem solving and change making.**

**To apply, visit:** [https://wpi.wd5.myworkdayjobs.com/en-US/WPI\\_External\\_Career\\_Site/job/Worcester/Research-Scientist\\_R0001886](https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Worcester/Research-Scientist_R0001886)

### **About WPI**

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