

**Post-Doctoral Fellow
Worcester Polytechnic Institute**

Direct Link: <https://www.AcademicKeys.com/r?job=259416>

Downloaded On: Jul. 12, 2025 4:52pm

Posted Jul. 9, 2025, set to expire Nov. 4, 2025

Job Title Post-Doctoral Fellow
Department Fire Protection Engineering - NFR JM
Institution Worcester Polytechnic Institute
Worcester, Massachusetts

Date Posted Jul. 9, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Mechanical Engineering
Chemical/Petroleum

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Job Description

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JOB TITLE

Post-Doctoral Fellow

LOCATION

Worcester

DEPARTMENT NAME

Fire Protection Engineering - NFR JM

DIVISION NAME

Post-Doctoral Fellow Worcester Polytechnic Institute

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Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

Applications are being sought for a postdoctoral researcher in the research area of Fire Research with a focus on Wildland-Urban Interface (WUI) fires under the leadership of Prof. James L Urban in the department of Fire Protection Engineering and as part of the Wildfire Interdisciplinary Research Center at WPI (wildfirecenter.com).

The position will involve leading computational modeling of WUI fire exposure, assisting/contributing to small- and large-scale experiments. The position is for one-year with the possibility of renewal depending on funding.

JOB DESCRIPTION

Required skills and qualifications:

- PhD in Mechanical engineering, Fire Protection Engineering, or other related stem field
 - Ideal major background will be in fluid mechanics, combustion, fire or heat transfer
- Strong foundation in thermal fluids

Desired/Optional qualifications:

- Experience using computational fire modelling software such as Fire Dynamics Simulator (FDS) and FireFOAM or computational fluid dynamics software
- Prior research experience performing experimental research
- Familiarity with scripting languages/software (e.g., bash, python, slurm, etc.)
- Familiarity with imaging analysis and/or computer vision is a plus.

Applicants will need to provide a letter of interest (1-2pg), a complete CV, at least two exemplar publications, and at least three academic / research references.

Applications and associated information are requested to be submitted by March 9th but will be accepted until the position is filled. The target start date of this position is 31 March 2025, but sooner

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may be possible.

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/Post-Doctoral-Fellow_R0003105

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.

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Contact

N/A

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