

**Post-Doctoral Fellow
Worcester Polytechnic Institute**

Direct Link: <https://www.AcademicKeys.com/r?job=262091>

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Posted Sep. 5, 2025, set to expire Jun. 30, 2026

Job Title Post-Doctoral Fellow
Department
Institution Worcester Polytechnic Institute
Worcester, Massachusetts

Date Posted Sep. 5, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Mechanical Engineering

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Job Description

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JOB TITLE

Post-Doctoral Fellow

LOCATION

Worcester

DEPARTMENT NAME

Mechanical & Materials Engineering - JM

DIVISION NAME

Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

Post-Doctoral Fellow Worcester Polytechnic Institute

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One opening is available now for a postdoctoral researcher on optical fiber sensor development. The proposed optical fiber sensors will enable differentiation of complex mixtures of gasses and aromas, with potential applications ranging from the food industry, pharmaceutical industry, advanced manufacturing, and defense purposes.

The project is sponsored by U.S. Army Ground Vehicle Systems Center (GVSC), and the technology has been attracting interests from various industrial members in the food and pharma industries, with one company in the process of licensing this technology from WPI. The postdoc researcher will be mentored closely while being granted their own freedom of pursuing new ideas, providing that the progress on the sponsored project is satisfactory. The training of the postdoc will benefit from sophisticated experiences on multidisciplinary research topics and extensive facilities available in the research group. The postdoc will have opportunities to collaborate closely and interact periodically with experts from these industrial sectors and from the Army. In addition, the postdoc will be able to take advantages of the industrial and academic connections through the WPI/UIUC Center for Advanced Research in Drying (<https://www.dryingresearch.org/>).

JOB DESCRIPTION

The specific job responsibilities include research activities, coordinating monthly meetings with sponsors, and writing reports and publications. The postdoc is expected to lead research activities including fiber sensor design and fabrication, fiber tip customization, numerical simulation on optical modes in waveguides (mainly in COMSOL Multiphysics), in-lab sensor characterization, and in-the-field sensor demonstration.

Requirements

The requirements for the candidates include 1) US citizenship or permanent residency, 2) strong hands-on skills and a trackable publication record on optical fibers or optical sensor development, 3) a PhD in Mechanical Engineering, Electrical Engineering, Physics, or related majors. The existing funding is for one year with a high likelihood to continue after the first year.

Please email 1) a cover letter, 2) CV, and 3) contacts of 3 referees to Prof. Yuxiang Liu at yliu11@wpi.edu. Please use "postdoc position application" as the subject title. Position is open until filled, and the review of applications has already started.

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,

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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_R0003256

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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