

**Post-Doctoral Fellow  
Worcester Polytechnic Institute**

Direct Link: <https://www.AcademicKeys.com/r?job=262410>

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Posted Sep. 11, 2025, set to expire Jun. 30, 2026

<b>Job Title</b>	Post-Doctoral Fellow
<b>Department</b>	
<b>Institution</b>	Worcester Polytechnic Institute Worcester, Massachusetts
<b>Date Posted</b>	Sep. 11, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Optics & Optical Engineering Mechanical Engineering Engineering Physics
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**Job Description**

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**JOB TITLE**

Post-Doctoral Fellow

**LOCATION**

Worcester

**DEPARTMENT NAME**

Mechanical & Materials Engineering - NFR JM

**DIVISION NAME**

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Worcester Polytechnic Institute - WPI

### **JOB DESCRIPTION SUMMARY**

Applications are invited for a postdoctoral researcher in the area of optical sensor development for structural integrity assessment. The successful candidate will contribute to a research project focused on developing and validating a Fiber Bragg Grating (FBG) sensor for measuring strain on Composite Overwrapped Pressure Vessels. This work is a collaborative effort between academia and industry, and it will be conducted under the mentorship of Prof. Ahmet Can Sabuncu at Worcester Polytechnic Institute (WPI).

The position is full-time and for one-year, with the possibility of renewal contingent on continued funding and performance.

### **JOB DESCRIPTION**

Required skills and qualifications:

- PhD in Mechanical Engineering, Aerospace Engineering, Applied Physics, or a closely related discipline.
- Demonstrated experience in experimental design, data acquisition, and quantitative analysis.
- Familiarity with digital data acquisition systems and sensor integration.
- Strong written and oral communication skills, including the ability to prepare clear, professional reports and presentations to for industry partners and funding agencies.
- Strong analytical background to investigate pressure-strain-stress relationships in composite materials.
- US Citizenship is required due to sponsor restrictions.

Desired/Optional qualifications:

- Motivation to engage in proposal development and future funding applications, in collaboration with the PI and project partners.
- Interest in exploring related applications of FBG sensing, such as in aerospace, civil infrastructure, or biomedical systems.
- Familiarity with composite material behavior, strain-based sensing, or finite element modeling is a plus.

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Interested candidates should submit the following:

- A letter of interest describing your qualifications, research interests, and alignment with this position.
- A current CV.
- Two representative publications (published or preprints).
- Contact information for three academic or research references.

Applications will be reviewed on a rolling basis until the position is filled.

### **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\\_R0003235](https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Worcester/Post-Doctoral-Fellow_R0003235)

### **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

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environment and propel the institution to the next level in a competitive, global marketplace.

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**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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