

**Post Doctoral Fellow
Worcester Polytechnic Institute**

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Downloaded On: Jun. 27, 2025 2:21am

Posted Jun. 26, 2025, set to expire Jul. 3, 2025

Job Title Post Doctoral Fellow
Department Mechanical & Materials Engineering - NFR JM
Institution Worcester Polytechnic Institute
Worcester, Massachusetts

Date Posted Jun. 26, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Mechanical Engineering
Material/Metallurgy

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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

Post Doctoral Fellow Worcester Polytechnic Institute

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Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

The Department of Mechanical and Materials Engineering at WPI invites applications for a full-time Postdoctoral Fellow position under the mentorship of Dr. Jiawei Yang. The successful candidate will join a multidisciplinary research group focused on soft materials, biomedical devices, and translational biotechnology.

The appointment will be for one year with the possibility of renewal based on performance and available funding.

JOB DESCRIPTION

Key Responsibilities:

- Lead and contribute to the development of a new tissue-interfacing biotechnology
- Conduct in vitro chemical, mechanical, and biological characterizations of soft materials
- Perform in vivo evaluations using relevant animal models
- Work closely with graduate students and collaborators in a dynamic lab environment
- Prepare manuscripts and contribute to grant proposals

Required Qualifications:

- Ph.D. in Mechanical Engineering, Biomedical Engineering, Materials Science, or a closely related field
- Demonstrated expertise in soft materials, biomaterials, or related experimental techniques
- Strong publication record in peer-reviewed journals
- Excellent written and verbal communication skills

Preferred Qualifications:

- Experience with hydrogel systems, bioadhesives, or tissue coating technologies
- Familiarity with mechanical testing (e.g., rheometry, tensile testing), chemical characterization (e.g., FTIR, XPS), and cell-material interaction studies

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- Hands-on experience in animal model studies and ethical handling procedures

Application Materials:

Interested applicants should submit the following:

- Cover letter (1-2 pages) describing research experience and career goals
- Curriculum Vitae
- At least two representative publications
- Contact information for at least three academic/research references

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

Compensation:

Annual salary: \$48,500 USD, plus benefits according to WPI's institutional rates.

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_R0003206

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

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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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