

Assistant Research Professor Worcester Polytechnic Institute

Direct Link: <https://www.AcademicKeys.com/r?job=247582>

Downloaded On: Oct. 28, 2024 5:00am

Posted Oct. 24, 2024, set to expire Feb. 20, 2025

Job Title	Assistant Research Professor
Department	
Institution	Worcester Polytechnic Institute Worcester, Massachusetts
Date Posted	Oct. 24, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor
Academic Field(s)	Biology - Computational
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Job Description

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JOB TITLE

Assistant Research Professor

LOCATION

Worcester

DEPARTMENT NAME

Mathematical Science

DIVISION NAME

Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

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The Department of Mathematical Sciences at Worcester Polytechnic Institute (WPI) seeks applicants for an Assistant Research Professor in the general areas of computational mechanics and biology. Responsibilities for this position include the development of analytical and computational models to investigate impact of the subcellular and intercellular elastic structure on the dynamics of multicellular tissue motion and morphology. The main goals of the research are to develop mechanical models and numerical methods to understand how the cytoskeleton elasticity and remodeling affect tissue fluidity. For candidates with experience in developing tools in cell and tissue deformation analysis, there are opportunities to complete experiments.

JOB DESCRIPTION

WPI is a diverse campus of learners 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.

This research position is housed in the Department of Mathematical Sciences within the research group of Dr. Min Wu and is a joint collaboration between the Wen Lab in Physics at WPI and the Sun Lab in the Mechanical and Industrial Engineering Department at UMass Amherst.

The Department of Mathematical Sciences has extensive research programs focused on computational approaches to investigate key questions in cellular and tissue biology. Dr. Wu's group leads a growing research program specializing in the modeling and computation of cell and tissue growth and morphogenesis, with a strong emphasis on understanding how geometry and mechanics influence cell and tissue dynamics in experiments.

The successful candidate is expected to have extensive experience in numerical optimization. Experience with solving nonlinear elliptic partial differential equations is a plus. A combined experimental-theoretical approach is used, where computational models are simulated on high performance computing systems at WPI. Upon joining the project, the successful candidate is expected to contribute to the development of simulation code, the analysis of modeling frameworks, and the completion of additional experimental imaging studies. Additionally, weekly presentations with research updates and manuscript preparation for submission to peer reviewed journals will be required.

WPI's reputation as a rigorous and innovative university rests on the shoulders of its faculty. A highly selective, private technological university and one of the nation's first, WPI believes that when great minds work together, great advances follow. At WPI the boundaries to multidisciplinary collaboration are low. Faculty members, students, and other partners work together on the real-world projects and



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purposeful research that are hallmarks of the WPI experience. WPI is consistently ranked among the top 70 research institutions by US News &

World Report. Located one hour west of Boston, the university's campus is in Worcester, Massachusetts, a thriving 21st century college city recognized as a growing hub of scientific and technological innovation.

Qualified applicants should submit (1) a curriculum vitae, (2) a cover letter, and (3) contact information for at least three references. Review of applications will continue until the position is filled.

FLSA STATUS

United States of America (Exempt)

WPI is an Equal Opportunity Employer that actively seeks to increase the diversity of its workplace. 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 with diverse 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/Assistant-Research-Professor_R0002991

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.

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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

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