

Assistant Professor of Mathematical Science (Discrete
Math)
Worcester Polytechnic Institute

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Posted Oct. 17, 2024, set to expire Feb. 12, 2025

Job Title	Assistant Professor of Mathematical Science (Discrete Math)
Department	Mathematical Science
Institution	Worcester Polytechnic Institute Worcester, Massachusetts
Date Posted	Oct. 17, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor
Academic Field(s)	Statistics & Actuarial Science Mathematics/Applied Mathematics
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Job Description

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JOB TITLE

Assistant Professor of Mathematical Science (Discrete Math)

LOCATION

Worcester

DEPARTMENT NAME

Mathematical Science Department

DIVISION NAME

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Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

The WPI Department of Mathematical Sciences invites applications for a tenure-track position at the Assistant Professor level to begin in the Fall of 2025. The broad focus is in the areas of Algebra, Geometry, Graph Theory, and Topology. Possible areas of expertise include but are not limited to Bootstrap Percolation, Clustering, Combinatorial Optimization, Discrete Geometry, Graphons, Low Dimensional Topology, and Machine Learning. The successful candidate is expected to develop a research program and contribute to the teaching mission of the department, which embraces project-based learning. Interest in interacting and contributing to WPI's interdisciplinary programs and initiatives, which include Bioinformatics and Computational Biology, Cybersecurity, Data Science, Neuroscience, and Quantum Information Science, is welcomed and encouraged. The Department offers courses at the undergraduate and/or graduate level in Algebra, Discrete Mathematics, Optimization, Combinatorics, and Graph Theory.

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.

JOB DESCRIPTION

The department has over 40 faculty and post-doctoral scholars and WPI has a total enrollment of over 7,000 students. Our departmental undergraduate programs include Mathematical Sciences and Actuarial Mathematics. At the graduate level, we have several master's programs (Applied Statistics, Applied Mathematics, Industrial Mathematics, and Mathematics for Educators) and we offer PhDs in Mathematical Sciences and Statistics. The department has a strong reputation for its cutting-edge interdisciplinary research and successful programs addressing mathematical and statistical problems in industry, with a Center for Industrial Mathematics and Statistics (CIMS).

The successful candidate is expected to develop an externally funded research program and supervise undergraduate and graduate student projects and dissertations. There is a reduced teaching load for new faculty and a standard teaching load in the department is 4 courses per year (undergraduate courses are 7-week terms and graduate courses are 14-week semesters). Faculty are expected to support and advise students in departmental programs, participate in WPI's signature project-based curriculum, and to contribute to the operation and promotion of the department, college, university, and the profession. Candidates should have a PhD in Mathematics, or a related field prior to appointment at WPI. Preference will be given to candidates

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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 real-world projects and research that are hallmarks of the WPI experience. WPI is consistently ranked among the top 70 research institutions by US News & World Report. 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 a single pdf** that contains (1) a cover letter, (2) contact information for references, (3) a curriculum vitae, (4) a statement of research objectives, and (5) a teaching statement. Four letters of recommendation, at least one of which addresses teaching experience or potential, should be sent to ma-chair@wpi.edu with the applicant's name and position being applied to in the subject line. Applications should highlight the applicant's commitment to diversity, equity, and inclusion. The cover letter should describe experiences working with a diverse student body and the teaching statement should highlight approaches to curriculum design and course setup that create an inclusive classroom.

Applications will be read as they are received, and all complete applications received by December 13, 2024, will be guaranteed full consideration. 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-Professor-of-Mathematical-Science_R0002990

About WPI

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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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