

Tenure-Track Faculty in Mechanical Engineering Villanova University

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Posted Oct. 14, 2024, set to expire Feb. 8, 2025

Job Title	Tenure-Track Faculty in Mechanical Engineering
Department	Mechanical Engineering
Institution	Villanova University Villanova, Pennsylvania
Date Posted	Oct. 14, 2024
Application Deadline	03/31/2025
Position Start Date	Available immediately
Job Categories	Lecturer/Instructor
Academic Field(s)	Mechanical Engineering
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Tenure-Track Faculty in Mechanical Engineering

Posting Number: 20241167F

Position Title: Tenure-Track Faculty in Mechanical Engineering

Position Type: Faculty

Location: Villanova, PA

Recruitment Type: Internal/External Applicants

Work Schedule: full-time/9-months

Department: 205-Mechanical Engineering

Position Summary: The Department of Mechanical Engineering at Villanova University has multiple

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openings for tenure-track faculty positions. We invite applications from outstanding candidates with expertise and interests in one or more of the research domains of autonomous systems, energy and sustainability, aerospace engineering, biomedical engineering, and advanced manufacturing. We are particularly interested in candidates who are committed to cross-disciplinary research.

The department has established research strengths in robotics, autonomy, nonlinear dynamics and control, renewable and sustainable energy, multi-phase heat transfer, biomechanics and biofluids, and materials engineering. Candidates are expected to complement and strengthen existing department research and/or develop new high-impact research directions. The integration of artificial intelligence, machine learning, and advanced computational optimization methodologies in these areas of research is highly desirable. The appointments begin in August 2025.

Villanova is a Carnegie-classified doctoral university. From its founding in 1842 to its position today as a nationally recognized leading university, Villanova University has forged a path of academic excellence. The University is in the Philadelphia metropolitan area, home to a large concentration of universities, industries, and government labs.

The Mechanical Engineering department has 24 full-time faculty members, more than 300 undergraduate students, and over 125 graduate students, including 55 Ph.D. students. Faculty in the department are internationally recognized for their research achievements. The department hosts several research centers, including the NSF I/UCRC in Energy-Smart Electronic Systems and the Villanova Center for Analytics of Dynamic Systems. Research in the department is poised for further growth with the recent opening of Drosdick Hall, the new home of the College of Engineering. Drosdick Hall features state-of-the-art, collaborative research and educational spaces.

The department is committed to providing a rigorous educational experience in the discipline of mechanical engineering, graduating well-rounded leaders and life-long learners, who aspire to achieving professional excellence. We are equally committed to the discovery, dissemination, advancement, and application of cutting-edge research. Inspired by the Augustinian-Catholic tradition, we value an inclusive and diverse community in which we prepare our students to demonstrate the highest ethical conduct and contribute to the well-being of humankind. The Department of Mechanical Engineering and the College of Engineering are deeply committed to work-life balance and family-friendly programs for our faculty. The University has established the VISIBLE initiative, supported by an NSF ADVANCE institutional transformation grant, that is enabling a culture of belonging and equity for all faculty.

Villanova is a Catholic university sponsored by the Augustinian order. Diversity and inclusion have been and will continue to be an integral component of Villanova University's mission. The University is an Equal Opportunity/Affirmative Action employer and seeks candidates who understand, respect and

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can contribute to the University's mission and values.

Duties and Responsibilities: Primary responsibilities include developing a vibrant funded research program, collaborating nationally and internationally and with faculty in one or more of our core strength areas of thermal-fluids science, controls and dynamics, solid mechanics, and materials. Successful candidates are expected to mentor doctoral, masters, and undergraduate research students, teach and develop undergraduate and graduate courses, contribute to the modernization of the curriculum, and engage in impactful service.

Minimum Qualifications: Required are a Ph.D. in Mechanical Engineering or a closely related field, a proven ability for high quality research, and a demonstrated commitment to teaching excellence and innovation.

Special Message to Applicants: Please submit your applications at: <https://jobs.villanova.edu>

. Application materials should include:

- a cover letter
- Curriculum Vitae
- Academic transcripts
- Statement of research interests
- Statement of teaching philosophy
- Names and contact information for three references

The review process will begin immediately and will continue until the position is filled.

Posting Date: 09/25/2024

Closing Date (11:59pm ET): 03/31/2025

Salary Posting Information: Competitive.

Job Classification: faculty

To apply, visit: <https://jobs.villanova.edu/postings/29803>

Contact Information



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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Mechanical Engineering
Villanova University

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