

Assistant/Associate Professor in Mechanical Engineering  
New Jersey Institute of Technology (NJIT)

Direct Link: <https://www.AcademicKeys.com/r?job=252087>

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Posted Jan. 24, 2025, set to expire May 22, 2025

<b>Job Title</b>	Assistant/Associate Professor in Mechanical Engineering
<b>Department</b>	Mechanical and Industrial Engineering
<b>Institution</b>	New Jersey Institute of Technology (NJIT) Newark, New Jersey
<b>Date Posted</b>	Jan. 24, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Associate Professor Assistant Professor
<b>Academic Field(s)</b>	Robotics Mechanical Engineering Manufacturing & Quality Engineering Energy Technology
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**Job Description**

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**Assistant/Associate Professor in Mechanical Engineering**

**Department:**

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Mechanical and Industrial Engr

**Reports To:**

Chair, Mechanical and Industrial Engineering

**Position Type:**

Faculty

**About the department**

The Mechanical and Industrial Engineering Department in the Newark College of Engineering at New Jersey Institute of Technology is an advanced research-active department. Research thrust areas include Biomechanics, computational fluid mechanics, biomedical devices, robotics, controls and automation, smart materials, mechanics of complex materials, advanced energy systems, thermal-fluid systems, climate modeling, computer aided design, machine learning, supply chain and operations research. Our department features 30 tenured/tenure-track faculty and 6 teaching faculty who contribute significantly to our educational excellence and mission. Our department accommodates an impressive student body of 1,200 individuals, making us one of the largest academic departments in the Newark College of Engineering at NJIT. Our offerings include 24 graduate MS, PhD, and certificate programs, as well as undergraduate majors in mechanical engineering (ME) and industrial engineering (IE). Our department thrives with a vibrant community of student groups, including ASME (American Society of Mechanical Engineers), IISE (Institute of Industrial and Systems Engineers), Baja SAE, and Robotics Club among others. MIE research projects are funded by NSF, other federal agencies, NJ state, industry and private foundations.

**Position Summary:**

The Mechanical and Industrial Engineering Department at the New Jersey Institute of Technology (NJIT) invites applications for a tenure-track position in a broad scope of the department's research areas at the level of Assistant/Associate Professor in Mechanical Engineering.

We encourage applications from candidates with expertise and interest in establishing research programs with an emphasis on mechanics, dynamics, thermodynamics, materials science, structural analysis, product and process design ;AI-driven machine learning applied to generative and sustainable design; Computer-aided engineering and design optimization; energy systems and thermal systems engineering; semiconductor manufacturing and microelectronics, and packaging; and intelligent systems, automation and novel robotic systems.

**Essential Functions:**

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- Candidates are expected to conduct and advance scholarly research in pertinent areas and be able to secure external research funding from federal and state agencies and industry.
- Candidates are also expected to teach undergraduate and graduate level courses in mechanical engineering as well as provide service to the program, department, university, and profession.

### **Prerequisite Qualifications:**

- Applicants are expected to have a doctorate degree in mechanical engineering or a related discipline.
- Candidates must demonstrate clear potential for high-quality scholarly achievements that demonstrate independent research, and a commitment to excellence in undergraduate and graduate teaching and mentoring. Industry experience and the ability to obtain professional licensure are desirable.
- Candidates must have the potential to establish an externally funded research program in their area of expertise.
- At the university's discretion, the education and experience prerequisites may be exempted where the candidate can demonstrate to the satisfaction of the university, an equivalent combination of education and experience specifically preparing the candidate for success in the position.

### **Bargaining Unit:**

PSA

### **FLSA:**

Exempt  
Full-Time

### **Special Instructions to Applicants:**

Rank and salary will be commensurate with qualifications and experience. Applications must include a curriculum vitae, teaching statement, cover letter, and contact information for three (3) professional references.

Questions may be directed to the interim chair, Dr. Zhiming Ji at [ji@njit.edu](mailto:ji@njit.edu).

As an EEO employer NJIT is committed to building a diverse and inclusive teaching, research, and working environment and strongly encourages applications from individuals with disabilities, minorities, veterans, and women. As a Minority Serving Institution with designations as an Asian American and Native American Pacific Islander Serving Institution (AANAPSI) and Hispanic Serving Institution (HSI), NJIT is committed to embracing diversity, centering equity, and practicing inclusion with the goal of sustaining a culture of belonging. NJIT celebrates the diversity of our university community and

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recognizes the cultural and personal contributions each member of the community brings to NJIT. We strive to cultivate a campus culture that promotes inclusive excellence among our faculty, staff, students, and external partners. Sustaining and building upon our diverse community is critical to NJIT's continuing status as a premier research institution of higher education and a leading polytechnic university.

**EEO Statement:**

As an EEO employer, NJIT is committed to building a diverse and inclusive teaching, research, and working environment and strongly encourages applications from individuals with disabilities, minorities, veterans, and women.

**Diversity Statement:**

As a Minority Serving Institution with designations as an Asian American and Native American Pacific Islander Serving Institution (AANAPSI) and Hispanic Serving Institution (HSI), NJIT is committed to embracing diversity, centering equity, and practicing inclusion with the goal of sustaining a culture of belonging. NJIT celebrates the diversity of our university community and recognize the cultural and personal contributions each member of the community brings to NJIT. We strive to cultivate a campus culture that promotes inclusive excellence among our faculty, staff, students, and external partners. Sustaining and building upon our diverse community is critical to NJIT's continuing status as a premier research institution of higher education and a leading polytechnic university.

To apply, visit <https://njit.csod.com/ux/ats/careersite/1/home/requisition/7670?c=njit>

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**Contact Information**

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

**Contact**

Mechanical and Industrial Engr



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