

Assistant Professor of Mechanical and Industrial
Engineering: Manufacturing, Robotics and Processes
University of Massachusetts Amherst

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Job Title Assistant Professor of Mechanical and Industrial Engineering:
Manufacturing, Robotics and Processes

Department Department of Mechanical and Industrial Engineering

Institution University of Massachusetts Amherst
Amherst, Massachusetts

Date Posted Sep. 15, 2017

Application Open until filled

Deadline

Position Start September 1, 2018

Date

Job Categories Assistant Professor

Academic Field(s) Manufacturing & Quality Engineering
Industrial & Systems Engineering
Mechanical Engineering
Robotics

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Job Description

Assistant Professor of Mechanical and Industrial Engineering
Focus: Manufacturing, Robotics and Processes
University of Massachusetts Amherst
Starting Date: September 1, 2018

The Department of Mechanical and Industrial Engineering (MIE) at the University of Massachusetts Amherst invites applications for two tenure-track faculty positions at the Assistant Professor level in the

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area of Manufacturing.

Responsibilities:

- Teach both undergraduate and graduate courses.
- Supervise graduate students and postdoctoral fellows.
- Contribute significantly to the advance of basic science and engineering, as evidenced by scholarly publications.
- Develop a nationally recognized program of sponsored research.
- Have an understanding of diversity issues and their educational importance.

Requirements and Qualifications:

- Candidates must have an earned doctorate in Mechanical Engineering, Manufacturing Engineering, or a closely related field at the time of appointment.
- Preference will be given to outstanding candidates who have demonstrated research expertise in (Position #1) robotics and automation in manufacturing (design and control of robots, robot fabrication, human-robot interaction, robots in biomedical manufacturing, and other robotic manufacturing related focuses) or (Position #2) manufacturing processes (lean manufacturing, digital manufacturing, smart manufacturing, cyber-enabled manufacturing, advanced composites manufacturing, additive manufacturing, and novel near net shape manufacturing).

Application Process:

Candidates should provide the following in their application package:

- Cover letter indicating interest in either the robotics or processes position
- Current curriculum vitae
- Research plans
- Statement of teaching interests
- Representative recent original research articles
- Full contact information for at least four references

To apply, please submit these materials to:

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The search committee will begin reviewing applications on November 15, 2017. The search will continue until the positions are filled.

About the Department, School, Institute, University, and Community:

The Department of Mechanical and Industrial Engineering has 37 full-time faculty members, over 140



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graduate students, and over 800 undergraduates. Research expenditures exceeded \$5.3M in the last fiscal year. The Department has a long history of successful interdisciplinary research, including the Center for e-Design, Cold Spray Research Group, Wind Energy Center, Center for Energy Efficiency and Renewable Energy, Mechatronics and Robotics Research Lab, and Arbella Insurance Human Performance Lab. The emerging advanced manufacturing thrust area involves interdisciplinary collaborations between faculty in the Department and faculty in other Departments in the College and around the University, including the Center for Personalized Health Monitoring (CPHM) with the UMass Amherst Institute for Applied Life Sciences (IALS). IALS was recently capitalized with \$95 million in investments from the Massachusetts Life Sciences Center and is home to ADDFab (Advanced Digital Design and Fabrication) and the Advanced Roll-to-Roll Manufacturing for the Life and Nano Sciences.

The College of Engineering is ranked as the best public engineering college in New England. The fall 2016 enrollment included 2,108 undergraduate and 572 graduate students. Research expenditures exceeded \$27.1 M in the past year and the College is host to 14 research centers including the Institute for Cellular Engineering. The College has an excellent record of developing new faculty with 23 of our current faculty members having received prestigious NSF CAREER awards.

The University of Massachusetts Amherst (<http://www.umass.edu>), the flagship campus of the University of Massachusetts system, is a nationally ranked public research university and home to over 23,000 undergraduate and 6,000 graduate students. The 1,430 acre campus is located in the scenic Pioneer Valley of western Massachusetts, 90 miles from Boston and 175 miles from New York City. UMass Amherst, along with Amherst, Hampshire, Mount Holyoke and Smith colleges, is a member of the Five College Consortium and the Academic Career network. The region boasts a rural setting with easy access to Boston, Hartford, and New York City. Amherst is nestled between the Berkshire Mountains, Holyoke Range and Pelham Hills providing many recreational opportunities.

The University is committed to active recruitment of a diverse faculty and student body. The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans, and individuals with disabilities and encourages applications from these and other protected group members. Because broad diversity is essential to an inclusive climate and critical to the University's goals of achieving excellence in all areas, we will holistically assess the many qualifications of each applicant and favorably consider an individual's record working with students and colleagues with broadly diverse perspectives, experiences, and backgrounds in educational, research or other work activities. We will also favorably consider experience overcoming or helping others overcome barriers to an academic degree and career.

We are seeking talented applicants qualified for an assistant professor position. Under exceptional circumstances, highly qualified candidates at other ranks may receive consideration.

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Contact Information

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

Please see the job description for contact details pertaining to this university job announcement.