

UMassAmherst

College of Engineering

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

POSITION: 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 area of **Manufacturing**.

STARTING DATE: September 1, 2018

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).

RESPONSIBILITIES: The successful candidates are expected to 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, and have an understanding of diversity issues and their educational importance.

Department, School, Institute, University, and Community: The Department of Mechanical and Industrial Engineering has 37 full-time faculty members, over 140 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 2108 undergraduate and 572 graduate students. Research expenditures exceeded \$27.1 M in the past year and 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.

APPLICATION PROCESS: The search committee will begin reviewing applications on November 15, 2017. The search will continue until the positions are filled. Candidates should provide the following in their application package: 1) Cover letter indicating interest in either the **robotics** or **processes** position; 2) Current curriculum vitae; 3) Research plans; 4) Statement of teaching interests; 5) Representative recent original research articles; and 6) Full contact information for at least four references.

These materials should be submitted to:

<http://umass.interviewexchange.com/jobofferdetails.jsp?JOBID=89160>

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.