UMASS AMHERST
College of Engineering

Assistant Professor of Mechanical and Industrial Engineering
Focus: Human Factors

POSITION: The Department of Mechanical and Industrial Engineering (MIE) at the University of Massachusetts Amherst invites applications for a faculty position at the **Assistant Professor** level in the area of **Human Factors**.

STARTING DATE: September 1, 2018

REQUIREMENTS AND QUALIFICATIONS: Candidates must have an earned doctorate in Industrial Engineering or a related field at the time of appointment. Potential areas of research expertise include, but are not limited to: health systems engineering, transportation, human-technology interaction, and/or product design.

RESPONSIBILITES: Successful candidates are expected to teach undergraduate and graduate courses, supervise graduate students and postdoctoral fellows, contribute significantly to the advancement of basic science and engineering, develop a nationally recognized program of sponsored research, and have an understanding of diversity issues and their educational importance.

Department, College, University and Community: The Department of Mechanical and Industrial Engineering (http://www.mie.umass.edu) 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 is home to the Arbella Insurance Human Performance Laboratory (HPL), which recently purchased a $250,000 high-fidelity driving simulator with a full-size Ford Fusion cab, a 330 degree horizontal field of view, customizable glass dashboard, and 17-inch touch screen. The Department has a long history of successful interdisciplinary research, including the Center for e-Design, Decision-Making and Behavior Lab, Mechatronics and Robotics Research Lab, Wind Energy Center, and Center for Energy Efficiency and Renewable Energy.

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 were $27.1 M in the past year. The College has an excellent record of developing new faculty with 23 of our current faculty members having received the prestigious NSF CAREER award.

The Department has a long history of successful interdisciplinary research, with a growing number of cross-campus Institutes and Centers supporting these collaborations. The **Institute for Applied Life Sciences (IALS)**

(https://www.umass.edu/ials/) was recently capitalized with $95 million in investments from the Massachusetts Life Sciences Center and the University. It is home to three unique Centers focused on translational life sciences research: Center for Bioactive Delivery; Center for Models to Medicine (M2M); and Center for Personalized Health Monitoring (CPHM). Interdisciplinary, entrepreneurial and collaborative, IALS features state-of-the-art facilities, $50 million in new instrumentation, cross-cutting informatics programs, education and training programs, and wide-ranging industry partnerships (precision manufacturing, medical devices, biopharma, and health IT) designed to help drive the regional economy and beyond.

The **Center for Data Science** (https://ds.cs.umass.edu/) is creating new technology to manage and gain insight from "big data" while educating tomorrow's data scientists. The Center is helping to promote collaboration across 150 data-science-related faculty, providing new MS and undergraduate educational programs, and building intellectually strong, mutually beneficial relationships with industrial partners and entrepreneurs.

The **Computatonal Social Science Institute** (http://www.cssi.umass.edu) is an interdisciplinary community using computational models and methods to help understand the social world. The Institute promotes collaboration across 75 faculty affiliates from 26 departments in 9 colleges at UMass Amherst. Faculty from Engineering, Computer Science, and Social and Behavioral Sciences play key roles in the Institute.

UMass 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 position is filled. You should provide the following in your application package:

1) Your current curriculum vitae
2) A research statement, including your vision for your research program, how your prior research supports this vision, and how interdisciplinary collaborations will support your work
3) A teaching statement, including your approach to teaching, how previous teaching experiences or training have influenced your teaching approach, and what undergraduate and graduate courses you feel prepared to teach
4) A representative recent original research article
5) Full contact information for at least four references

**These materials should be submitted
to: https://www.interviewexchange.com/jobofferdetails.jsp?JOBID=89446** .

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.