UNIVERSITY OF MICHIGAN-DEARBORN

DEPARTMENT OF INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

FACULTY POSITION

Job Description: Tenure-Track Faculty in Industrial and Manufacturing Systems Engineering

The Department of Industrial and Manufacturing Systems Engineering (IMSE) at the University of Michigan-Dearborn (UM-Dearborn) invites applications for a tenure-track faculty position. The anticipated starting date is September 1, 2025. Although candidates at the Assistant Professor rank are preferred, exceptional candidates may be considered for the rank of Associate Professor or Professor depending upon experience and qualificiations. We are seeking candidates who can demonstrate the ability to establish an independent, externally-funded research program in their areas of expertise, and who are committed to student-centered undergraduate and graduate education in industrial and systems engineering. We strongly encourage women and minority candidates to apply.

The IMSE Department, currently at 17 tenure-track faculty, offers several high-impact BS and MS degree programs and a Ph.D. degree program in Industrial and Systems Engineering. This research-based Ph.D. program of the Rackham Graduate School of the University of Michigan-Ann Arbor is located, administered, and offered by the UM-Dearborn. The department, whose research expenditure in FY 2024 exceeded $1.6 million, is rapidly expanding its sponsored research activities. Two faculty members in the department have received NSF CAREER awards in the last three years. IMSE faculty is actively engaged in research in the areas relevant to industrial and manufacturing systems engineering. These areas include integrated design and manufacturing, operations research/decision science, and human factors and ergonomics. The faculty consistently obtains competitive research grants from federal government agencies such as DOD, NSF, and USDA-NIFA, the state of Michigan, and the automotive industry in Southeast Michigan. The faculty actively collaborates with various centers and institutes including Electric Vehicle Center (EVC), Automotive Research Center (ARC), and Center for Connected and Automated Transportation (CCAT) at the University of Michigan-Ann Arbor.

Qualifications:

Qualified candidates must have earned a Ph.D. degree in Industrial, Mechanical, or Manufacturing Engineering or a closely related discipline by September 1, 2025. We are seeking candidates in the broad area of artificial intelligence (AI) and digital technologies for the next revolution in the manufacturing industry. Research topics of interest include but are not limited to both AI applications and cyber-physical-human systems within the field of manufacturing, digital manufacturing, smart manufacturing, Industry 4.0, and distributed manufacturing systems. Ideal candidates should have a strong background in digital manufacturing technologies and a demonstrated ability to integrate AI solutions into manufacturing challenges.

Applications:

Qualified applicants are invited to submit a cover letter, curriculum vitae, a statement of current and future research interests, a statement of teaching philosophy, and a list of three references. All applications should be submitted to http://apply.interfolio.com/157028.

Inquiries should be directed to imse-search@umich.edu.

Applications will be reviewed continuously until the position is filled with the highest priority given to those received by December 15, 2024.

About the University of Michigan-Dearborn and Its Surroundings:

The University of Michigan-Dearborn was founded in 1959 on 200 acres of the original Henry Ford Estate in Dearborn, Michigan. As one of the three campuses of the University of Michigan, we serve over 8,000 students and provide high-quality undergraduate, graduate, professional, and continuing education programs that embody the prestige of the University of Michigan name. Our mission is rooted in commitment to the well-being and diversity of Metro Detroit, fostering a caring, dynamic, intellectual, and socially welcoming environment. Dearborn is a vibrant and diverse community, centrally located within one of America's largest business regions. The metro-Detroit area provides a variety of urban, suburban, and rural environments within a reasonable commute, including Detroit, its suburbs, and Ann Arbor.

The University of Michigan-Dearborn is an equal opportunity/affirmative action employer.