



Open Rank Faculty Positions in Mechanical Engineering

The Department of Mechanical Engineering (ME) at the University of Maryland, Baltimore County invites applications for one or more open rank (i.e., tenured or tenure-track) faculty positions in a broad range of areas of mechanical engineering including, and not limited to: solid mechanics, manufacturing, materials, control, and autonomous systems. Backgrounds in computational aspects of these areas are welcome. In addition to scholarly activity and funded research, expected duties will also include undergraduate and graduate teaching, supervision and mentoring of student researchers, and professional service to the community. Applicants must have an earned doctoral degree in mechanical engineering or related fields, and should be involved in advancing diversity, equity, and inclusive excellence.

The ME department currently consists of about 25 faculty members (including 15 tenured or tenure track faculty, professors of practice, lecturers, and adjunct faculty), approximately 590 undergraduate majors and 70 full-time graduate students. The faculty are engaged in a broad effort to provide high quality education, by continuous improvement of the curriculum, by fostering student research, practical training, and internship, by promoting diversity and inclusion at all levels, and by providing all students with opportunities for peer-support, mentoring, and financial assistance. ME is actively partnering with the Society of Women Engineers (SWE), the National Society of Black Engineers (NSBE), the Society of Hispanic Professional Engineers (SHPE), and the UMBC Center for Women in Technology (CWIT) to foster increased involvement of women, veterans, and other under-represented groups in engineering and technology-creation, at all levels. The department has a dynamic and vibrant graduate program that offers M.S. and Ph.D. degree programs in four thematic areas: Biomechanical Engineering, Dynamic Systems and Design (including Robotics, Control, and Autonomous Systems), Solid Mechanics, and Materials Science, and Thermal/Fluids Sciences. Successful candidates will find ample opportunity for collaboration, within the department, with other departments particularly Computer Science and Electrical Engineering, and/or with other nearby institutions and companies.

UMBC is a dynamic public research university integrating teaching, research and service. Its 500+ acre campus is located in a thriving prosperous region with excellent infrastructure. As an Honors University, UMBC offers academically talented students a strong undergraduate liberal arts foundation as preparation for graduate and professional study, entry into the workforce, and community service and leadership. UMBC is dedicated to promoting cultural and ethnic diversity, social responsibility, and lifelong learning. The 2018 US News and World Report Best Colleges report ranked UMBC 9th in the Most Innovative National Universities category and 8th in Best Undergraduate Teaching in the National Universities category. The Chronicle of Higher Education named UMBC as a Great College to Work For and distinguished its commitment to work-life balance. Our strategic location in the Baltimore-Washington corridor assures easy access to the resources of many federal laboratories, state agencies, and high-tech companies, and facilitates equipment-sharing and scientific collaboration.

There are 25+ research centers at UMBC and 130+ companies housed in its two adjacent research parks. The campus is < 10 minutes from an international airport (BWI) and multiple rail stations (Amtrak, MARC). UMBC has special programs supporting startup mainly in cybersecurity, transportation, clean energy, life sciences, and/or microfabrication. The campus is surrounded by one of the greatest concentrations of commercial, cultural and scientific activity in the nation. Located on the western shore of

the Chesapeake Bay, Baltimore offers all of the advantages of modern, urban life, including professional sports, major art galleries, theaters and a world class symphony orchestra. The city's Inner Harbor area is an exciting center for entertainment and commerce. The nation's capital, Washington DC, is a great tourist attraction with historical monuments and museums. Other nearby institutions include the Johns Hopkins University, UMB, UMCP, Naval Academy, U Pennsylvania, George Mason, and U Delaware plus a very large number of high tech companies, military bases, and federal agencies. UMBC is one of nine partners in The Universities at Shady Grove, a new consortium of teaching universities operating within the University System of Maryland, and located in Rockville, MD.

Since its inception, UMBC has stood for opportunity, diversity, and inclusive excellence. Times Higher Education recently ranked UMBC #3 in the nation for social and economic impact. Many of its faculty are engaged in cutting edge science, technology development, and/or entrepreneurial activity and ME research has been funded by a large number of federal agencies (e.g., DOD, NASA, NSF, NIH, ARO, ARL, ONR, AFOSR, DOE, DARPA, USDA, NIST), not-for-profit entities (e.g, World Bank, CIMMYT, TEDCO), and/or corporations. All ME faculty and many ME students attend national or international conferences on a regular basis.

All applications will be processed in Interfolio <http://apply.interfolio.com/99155>. The initial application should include a cover letter, a curriculum vitae, and three separate statements regarding the applicant's 1) research interests and plans, 2) teaching experience and philosophy, and 3) commitment to inclusive excellence. Contact information for 3 professional references may also be requested but at a later date. For best consideration, applications should be completed by 02/01/2022 but will still be accepted until the position is filled. Questions may be sent to mesearchtt@umbc.edu.

The Faculty Search Committee will organize a webinar from 10:00 AM to 11:00 AM ET on 01/10/2022 to answer questions from potential applicants. The webinar link is [here](#).

UMBC is an Equal Opportunity/Affirmative Action Employer. Minorities, women, Veterans and individuals with disabilities are encouraged to apply.

As an institution that receives federal financial assistance, UMBC adheres to Title IX and does not discriminate on the basis of sex. For more information about Title IX and contact information for Title IX Coordinator, please visit <https://oei.umbc.edu/policies-and-procedures/> .