



Assistant Professor Position

The Department of Mechanical Engineering (ME) at the University of Maryland, Baltimore County (UMBC) invites applications for a tenure-track position at the rank of Assistant Professor with an emphasis on Thermofluids. We will consider candidates with research experience across a broad range of thermofluid topics. Candidates who combine hands-on experiments, design, simulation and theory are highly encouraged to apply. The successful candidate will be responsible for scholarly activity and funded research, supervision and mentoring of student researchers, and professional service to the community and teaching upper-level undergraduate Mechanical Engineering courses at the Universities at Shady Grove (USG), located in Rockville, Maryland, approximately 25 miles from the UMBC campus in Catonsville, MD. Applicants must have an earned doctoral degree in mechanical engineering or related fields prior to the start date. The department is especially interested in candidates that demonstrate interest in being involved in advancing diversity, equity, and inclusive excellence at any level of education in the broader field of mechanical engineering. The preferred starting date for the position is August 15, 2023.

UMBC is a dynamic public, Carnegie R1 (very high research activity) research university integrating teaching, research and service. As an Honors University, we offer academically talented students a strong undergraduate liberal arts foundation that prepares them for graduate and professional study, entry into the workforce, and community service and leadership. We are dedicated to cultural and ethnic diversity, social responsibility, and lifelong learning. The 2022 US News and World Report Best Colleges report placed UMBC 6th in the Most Innovative National Universities category and 6th in Best Undergraduate Teaching in the National Universities category. The Chronicle of Higher Education named UMBC as a Great College to Work For, a recognition given to only 86 universities. We emphasize work-life balance as part of a successful career. Our strategic location in the Baltimore- Washington corridor puts us close to many important federal laboratories and agencies and high-tech companies, facilitating interactions, and collaboration.

While the work location is at USG, the successful candidate will be an integral part of the Mechanical Engineering Department, enjoying full privilege and benefits as faculty colleagues at the Catonsville campus. The USG program will be accredited by ABET along with the program at the Catonsville campus as one single BSME program. See <https://me.umbc.edu/> for more information on our program.

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, 40 miles south of UMBC, 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 universities operating within the University System of Maryland, and located in Rockville, MD.

According to NSF data, UMBC is the number one baccalaureate institution for African American undergraduates who go on to earn Ph.D.s in the natural sciences and engineering, as well as doctorates in the life sciences, mathematics, and computer science. The ME department is committed to diversity and inclusivity. The faculty are engaged in a broad effort to provide high-quality education, by continuous improvement of the curriculum, fostering student research, practical training, and internships, promoting diversity and inclusion at all levels, and providing all students with opportunities for peer-support, mentoring, and financial assistance. The ME department actively partners 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. Currently, the ME undergraduates consist of 20% female, 23% African American, 8% Hispanic, and 13% Asian. The department is experiencing a rapidly growing phase, with a diverse community of approximately 650 undergraduate majors. The tenure-track faculty, in collaboration with the Lecturers, is the driving force behind the department's broad effort to ensure a quality education for our undergraduates: working to improve mechanical engineering education, curriculum, diversity, and student support. ME faculty collaborate with the Center for Women in Technology (CWIT) to increase the diversity of those who create technology, with programs designed for women in computing and engineering, transfer students from underrepresented groups, and diverse students interested in mechanical engineering. In addition to our undergraduate programs, the department has a dynamic and vibrant graduate program in mechanical engineering.

UMBC at the Universities at Shady Grove is located in Rockville, MD in the heart of Montgomery County. With undergraduate and graduate programs available, UMBC-Shady Grove offers the academic reputation of UMBC in a convenient location with easy access to the government agencies, contractors and major healthcare organizations that call the area home. Students can begin to claim their future with internships and field placements, as well as the outstanding instruction for which UMBC faculty are known. As one of nine institutions at the Universities at Shady Grove, UMBC is part of a consortium of schools within the University System of Maryland, an arrangement which allows students to explore a wide range of outlooks and opportunities as they complete their UMBC degree.

All applications will be processed in [Interfolio](#) (116546). The initial application should include a cover letter, a curriculum vitae, and three separate statements regarding the applicant's 1) research interests and plans (limit 4 pages), 2) teaching experience and philosophy (limit 3 pages), and 3) commitment to inclusive excellence (limit 2 pages). Contact information for three professional references may also be requested at a later date. For best consideration, applications should be completed by 02/01/2023 but will still be accepted until the position is filled. Questions may be sent to meseearchtt@umbc.edu.

The Faculty Search Committee will organize a webinar from 10:00 AM to 11:00 AM ET on

01/9th/2023 to answer questions from potential applicants. The webinar link is [here](#). Password: ttsearch (Join by phone +1-202-860-2110 United States Toll. Access code: 2623 973 6488).

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/>.