

Tenure Track Position with Emphasis on Multifunctional Materials, Structures, and Systems



DEPARTMENT OF
MECHANICAL, AEROSPACE &
BIOMEDICAL ENGINEERING

The Department of Mechanical, Aerospace and Biomedical Engineering (MABE) at The University of Tennessee, Knoxville, invites applicants for a tenure-track position at the rank of assistant professor in mechanical or biomedical engineering. Responsibilities include teaching engineering courses at both the undergraduate and graduate levels, conducting research in engineering, developing externally funded research programs, and producing archival publications in leading scholarly journals. A PhD in mechanical or biomedical engineering (or a related field) is required at the time of appointment.

The Tickle College of Engineering (tickle.utk.edu) is undergoing a period of substantial growth in both physical infrastructure and research expenditures as it seeks to become a Top 25 ranked public institution. The college presently has seven departments with 186 faculty members, 3,393 undergraduates and 1,155 graduate students. The department (mabe.utk.edu) currently has 40 tenured/tenure track faculty members and enrolls some 1,331 undergraduate and 182 graduate students. Research expenditures in the department exceed \$15M per year.

Primary consideration will be given to individuals with capabilities and interests in multiscale and multiphysics modeling; computational design; synthesis, characterization, and processing of novel materials; additive, hybrid, and scalable manufacturing technologies; or systems integration to realize multifunctional materials, structures, and systems. Emphasis will be given to candidates with proven expertise in reconfigurable materials and systems that integrate sensing, actuation, learning, and adaptation. Technologies that draw inspiration from biology, enhance the synthetic-biological interface, or enable transformative biomedical applications are also desired. The department has established strong cores in nanomaterials, biomechanics, robotics, and advanced manufacturing, including close working relationships with the Manufacturing Demonstration Facility (MDF) and the Center for Nanophase Materials Science (CNMS) at the nearby Oak Ridge National Laboratory. The successful candidate will have extensive opportunities to collaborate with ORNL researchers.

Review of applications will begin December 15, 2019 and will continue until the position is filled. The anticipated start date of the new position is August 1, 2020. Salary is commensurate with the position and experience of the applicant. To apply, go to: <https://tiny.utk.edu/ajo-14857>

Inquiries should be addressed to the search chair, Dr. Andy Sarles,
mabemebmresearch2020@utk.edu

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.