

FACULTY POSITION IN HUMANS FUSION SYSTEMS

The Department of Mechanical and Aerospace Engineering (MAE) at Case Western Reserve University is pleased to invite applications for a tenure-track faculty position, with an anticipated starting date on or after July 1, 2024. The position will be at the level of Assistant or Associate Professor.

Founded in 1826, Case Western Reserve University is a private research university located in Cleveland, Ohio. The site of the famous Michelson-Morley interferometer experiment, the university is associated with 17 Nobel laureates. Case School of Engineering actively promotes interdisciplinary research collaboration through university-level institutes that are primarily focused on “human-technology interactions, health care and energy. The MAE department has a renowned history of scholarly activities that have pushed the frontiers of mechanical and aerospace engineering, from microgravity to biologically inspired robotics. In recent years, the faculty have successfully initiated cutting-edge research across a broad range of classical and emerging fields, including biomechanics, point-of-care sensing, additive and sustainable manufacturing, artificial intelligence/machine learning for advanced data analytics, thermal management, hypersonic aerodynamics, and fire science and engineering.

We seek an outstanding scholar who demonstrates a compelling vision and plan to successfully establish a competitively funded research program that is well aligned with the Think Big strategic initiative of the university and contribute to the integration of humanity, diversity, and technology. Areas of interest include multiphysics/multiscale modeling of advanced materials and/or complex tissue systems, co-adaptive control of soft robotics enhanced by AI/machine learning, and human-fusion system/interface design and performance evaluation. The successful candidate will be part of a new University-wide model of research and education with their research focused as part of the cross-University, transdisciplinary team of the Human Fusions Institute (HFI), and their educational activities directed to advancing the missions of their tenure home in the MAE department at both the undergraduate and graduate levels. The candidate is also expected to engage in departmental, institutional, and professional service activities.

Applicants should submit a cover letter, curriculum vitae, statements on teaching and research, copies of three representative journal papers, and the names and contact information of at least four professional referees. In addition, applicants need to submit a statement explaining how their research, teaching, and/or service have contributed to diversity, equity, and inclusion within their scholarly field(s) and/or how their individual and/or collaborative efforts have promoted structural justice inside and outside institutions of higher learning. This statement should also reflect on the ways in which the candidate’s continued efforts will foster a culture of diversity, pluralism, and individual difference at Case Western Reserve University into the future. Please submit these electronically via Interfolio at <https://apply.interfolio.com/133263>. Evaluation of applications will begin immediately and continue until the position is filled.

In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply.

Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Equity at 216-368-3066 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.

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