



THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Faculty Positions in Mechanical Engineering

The Mechanical and Materials Engineering Department at the University of Alabama at Birmingham (UAB) is going through significant growth and expansion. We invite applications from highly qualified individuals for cluster hiring in the broad area of mechanical engineering, including manufacturing, health science, and materials for defense and harsh conditions. Under this initiative, multiple full-time, 9-month tenure-track positions are available at the rank of Assistant or Associate Professor. Appointment ranks will be commensurate with the candidate's experience and qualifications. Joint appointments with other engineering departments are available if a strong synergy exists. Applicants must hold a doctoral degree in Mechanical Engineering or related fields, demonstrate strong potential or record in conducting leading-edge research and publishing high-quality scholarly work, and be able to teach both undergraduate and graduate level courses of the Department. The candidate should also be highly interested in serving the needs of the MME Department and the university community. A proven track record of competitive funding as PI is highly desired.

Mechanical and Materials Engineering at UAB

The MME Department has 18 faculty members, 240 undergraduate majors, 70 full-time graduate students, and more than 100 online master's students. Current research strengths include computational fluid dynamics, structural mechanics, advanced manufacturing, metal castings and alloys, and composites for industrial and defense applications. The Department will be moving into a new state-of-the-art building in 2025, and is further supported by a unique on-campus pilot plant and foundry facility, the Materials Processing & Applications Development (MPAD) Center, as well as Engineering and Innovative Technology Development (EITD) – one of the nation's leading developers in cold storage hardware for use in microgravity and space exploration.

The Department offers excellent opportunities for collaboration with units across UAB in areas including materials, disability and rehabilitation engineering, innovation and entrepreneurship, nanoscale science, tissue engineering and regenerative medicine, and more. Outside the university, UAB Engineering and the Department of Mechanical and Materials Engineering maintain strong ties with many steel, power, automotive, and defense companies in Alabama and nationally.

The School of Engineering

The UAB School of Engineering is dedicated to research excellence and providing the highest quality education to a diverse population of future engineers. The School has approximately 50 full-time faculty members and enrolls nearly 900 undergraduates across 6 undergraduate majors in four departments: Biomedical Engineering; Civil, Construction and Environmental Engineering; Electrical and Computer Engineering, and Mechanical and Materials Engineering. Our undergraduate programs emphasize practical, hands-on learning complemented by a guaranteed internship. Over 500 graduate students pursue a range of programs including traditional on-campus M.S./Ph.D. pathways as well as online M.Eng. degrees for working professionals. The school has close ties to companies in Birmingham, which serves as a regional hub for the construction, materials, power, and biotech industries.

The University of Alabama at Birmingham

Spanning more than 100 city blocks, UAB is the state of Alabama's largest single employer with nearly 28,000 employees and has an annual, state-wide economic impact of \$12.1 billion. UAB was ranked #1 Young University in the United States for 2018 and 2019 in the Times Higher Education World University Rankings. In 2021, Forbes named UAB as America's No. 1 Best Large Employer, topping a list of more than 500 public and private corporations, hospitals, universities, Fortune 500 companies and more, across dozens of industries. *U.S. News & World Report's* 2022 "America's Best Graduate Schools" ranks 16 UAB graduate programs among the nation's top 25 and eight UAB specialties were ranked among the nation's top 50 in the magazine's 2022-2023 Best Hospitals report.

Required Application Documents

General MME Positions: Interested candidates should apply online at:

<https://uab.peopleadmin.com/postings/19768>

Advanced Manufacturing Positions: Interested candidates should apply online at:

<https://uab.peopleadmin.com/postings/19771>

Automation and Control Positions: Interested candidates should apply online at:

<https://uab.peopleadmin.com/postings/19773>

Interested candidates can also check the MME website for the postings:

<https://www.uab.edu/engineering/mme/>

Application review will begin January 1, 2024 and continue until the positions are filled. Applications should include a cover letter, a CV, research and teaching statements, a diversity statement, and contact information for three to four professional references. References will not be contacted without the permission of applicants, and formal letters of reference will be requested for finalists only. Questions may be directed to Dr. Kathy Lu, Department Chair of MME and Search Committee Chair, at klu@uab.edu.

EEO Statement

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of race, national origin, age, genetic or family medical history, gender, faith, gender identity and expression, or sexual orientation. UAB also encourages applications from individuals with disabilities and veterans.

Pre-employment Background Check

A pre-employment background check investigation is performed on candidates selected for employment.

Open Date: 10/01/2023

Open Until Filled: Yes

Anticipated starting date: August 15, 2024