

Associate/Full Professor of Mechanical Engineering
Oklahoma State University

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Posted Sep. 17, 2024, set to expire Jan. 16, 2025

Job Title Associate/Full Professor of Mechanical Engineering
Department Mechanical and Aerospace Engineering
<https://ceat.okstate.edu/mae/>
Institution Oklahoma State University
Stillwater, Oklahoma

Date Posted Sep. 17, 2024

Application Deadline Open until filled
Position Start Date Available Immediately

Job Categories Associate Professor
Professor

Academic Field(s) Mechanical Engineering
Manufacturing & Quality Engineering
Engineering Mechanics
Computer Engineering
Aerospace/Aeronautical/Astronautics
Engineering - Other

Job Website <https://jobs.okstate.edu>

Apply Online Here <https://okstate.csod.com/ux/ats/careersite/8/home/requisition/18467?c=okstate>

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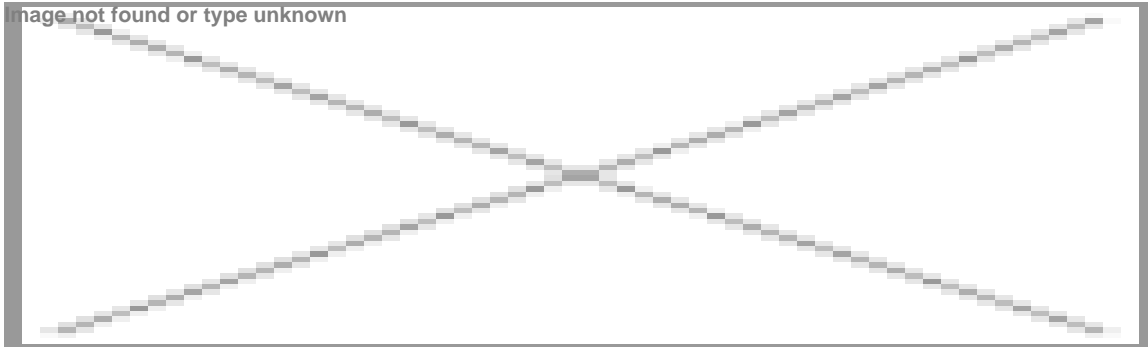
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**Job
Description**



Associate/Full Professor of Mechanical Engineering

The School of Mechanical and Aerospace Engineering (MAE) at Oklahoma State University is pleased to invite applications for a tenure-track faculty position at the rank of Associate or Full Professor level. Applicants should have teaching and research interests in an area of mechanical or aerospace engineering.

The successful candidate will have demonstrated potential for developing a strong externally funded research program and for excellent teaching at the undergraduate and graduate levels. An earned Ph.D. in a field closely aligned to mechanical or aerospace engineering is required, and an earned B.S. degree in mechanical engineering from an ABET accredited or equivalent program is preferred. The research areas of the successful applicant must be in a rapidly developing area and reflect a strong promise of competitive, extramural funding to support building an internationally recognized research program. The School intends to hire one highly qualified candidate (contingent upon available funding).

While all competitive candidates with expertise in all areas of mechanical engineering will be considered, we are particularly seeking expertise in the areas of data science and artificial intelligence, including algorithm and system design, physics-informed machine learning, data-driven modelling, big data assimilation, reduced order modeling, uncertainty quantification, high-performance computing, digital twins for complex systems, Internet of Things, cyber-physical systems, and other related areas with applications in mechanical and aerospace engineering discipline. The candidate should have an

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interest in building a research program in an area relevant to MAE, including, but not limited to, system design, mechanics, thermal systems, fluid dynamics, materials and manufacturing, energy systems, autonomous systems, and sustainability. Preference will be given to candidates interested in collaborative efforts and multi-disciplinary multi-investigator research programs in MAE.

About the School: The School of Mechanical and Aerospace Engineering at Oklahoma State University has a strong local, national, and international reputation for its premier undergraduate and graduate education and research programs. The School has a total of 36 faculty members consisting of a vibrant combination of senior faculty members, and a large number of young and motivated tenure track members: 20 tenured, 13 tenure track, and 3 additional career-track faculty. It has approximately 1,466 full time students: 539 Aerospace Engineering, 594 Mechanical Engineering, and 333 dual-major. Undergraduate laboratories are supported by more than 100,000 sq.ft. of floor space in the new ENDEAVOR building and the Design Manufacturing Laboratories, and research is supported across multiple large-scale facilities including the Advanced Technology Research Center, EXCELSIOR, the Helmerich Research Center (Tulsa), and the dedicated 80-acre Unmanned Systems Flight Station. The School also is home to several national and statewide programs including; CIBS (Center for Integrated Building Systems), OAI (Oklahoma Aerospace Institute), NASA Oklahoma Space Grant EPSCoR, Counter-UAS Center of Excellence, LaunchPad Center for Advanced Mobility, and New Product Development Center.

MAE offers undergraduate and graduate degrees on both the main campus and the Tulsa campus reaching a diverse population of traditional and non-traditional students. The School offers ABET accredited degrees in both Mechanical Engineering and Aerospace Engineering. It also offers Masters and PhD degrees in Mechanical and Aerospace Engineering including an option for Unmanned Aerial Systems.

MAE hosts strong research programs that cover a broad spectrum of traditional, emerging, and interdisciplinary areas of interest, including, but not limited to; unmanned aerial vehicles, flight dynamics and aerodynamics, propulsion and power, numerical and experimental solid mechanics, numerical and experimental fluid mechanics, dynamics and controls, manufacturing, thermal systems, biomechanics and biofluids.

The School has developed a highly professional and collegial culture of dedicated professors who are teachers of excellence and researchers with distinction. The School places high emphasis on a collaborative, team-based approach to solve pressing problems in science, engineering, and technology. The new Head is expected to provide leadership to continually enhance that culture while maintaining excellence with respect to its mission of teaching and research.

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About the University: Oklahoma State University was established in 1890 as a comprehensive land-grant university. Today, with over 35,000 students across a five-campus system, the university has a strong national presence. Oklahoma State University is an R1 university with its main campus in Stillwater, Oklahoma, a safe city of 50,000 residents with strong public schools and affordable housing of high quality. Travel is convenient with an airport in Stillwater, as well as flight options from two cosmopolitan cities—Tulsa and Oklahoma City—which are only 65 miles away.

Qualifications: An earned Ph.D. in a field closely aligned to mechanical or aerospace engineering is required, and an earned B.S. degree in mechanical engineering from an ABET accredited or equivalent program is preferred.

Applications: Interested and qualified candidates should apply online at <https://jobs.okstate.edu>. (Requisition ID: req18467) A single pdf file is requested with your application. The file should include:

- a cover letter;
- a curriculum vita;
- a plan to secure external funding with descriptions of two planned research projects;
- a statement of teaching interests and philosophy;
- names and contact information of five references

Send requests for additional information to the search committee chair, Dr. He Bai at he.bai@okstate.edu. Review of applications will begin immediately and will continue until the position is filled. Applications received by November 15, 2024, will receive full consideration. For assistance with the on-line application process or to request accommodation to enable application, contact OSU Human Resources, 201 General Academic Building, Stillwater, OK 74078 or call 405-744-7420.

EEO/AA Policy

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Mechanical Search Committee Chair - Dr. He Bai
Mechanical and Aerospace Engineering
Oklahoma State University
300 Engineering South
Stillwater, OK 74078

Phone Number 405-744-5900

Contact E-mail he.bai@okstate.edu