

Assistant/Associate Professor
Iowa State University

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Posted Oct. 2, 2024, set to expire Feb. 2, 2025

Job Title	Assistant/Associate Professor
Department	Aerospace Engineering http://www.aere.iastate.edu/
Institution	Iowa State University Ames, Iowa
Date Posted	Oct. 2, 2024
Application Deadline	Dec. 1, 2024
Position Start Date	Aug. 16, 2025
Job Categories	Assistant Professor Associate Professor
Academic Field(s)	Aerospace/Aeronautical/Astronautics Engineering - Other
Job Website	http://www.jobs.iastate.edu/
Apply Online Here	http://www.jobs.iastate.edu/
Apply By Email	
Job Description	

Summary of Duties and Responsibilities:

The Department of Aerospace Engineering in the College of Engineering at Iowa State University invites applications for a tenure-track track faculty position in aerodynamics and propulsion, focusing on numerical methods and computational fluid dynamics. Exceptional candidates with commensurate experience and proven track record will be considered for tenured status at the Associate rank.

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Current research thrust areas of the department include computational and experimental aerodynamics; turbulence modeling and simulation; aircraft icing; aeroacoustics; airbreathing propulsion; wind energy and wind engineering; computational and experimental solid mechanics and materials science; composites and aerospace structures; formal methods and software engineering; autonomy; non-destructive evaluation and testing; flight dynamics and astrodynamics; guidance navigation and control; aerospace systems and design optimization.

Successful candidates will be expected to establish, sustain and grow a world-class research program that complements or aligns with the department's research focus areas through individual and collaborative efforts. Additionally, the candidate is expected to establish a record of scholarship at the highest levels. The candidate is expected to teach courses in aerodynamics and/or aerospace propulsion at the undergraduate level, as well as advanced courses at the graduate level, and to engage in institutional service as well as service to the profession. Candidates should have strong communication skills, share our commitment to enhancing excellence through diversity and inclusion, and exhibit the potential for long-term leadership in supporting the mission of the department, college, and university.

The Department of Aerospace Engineering is committed to sustaining a collegial, positive, and productive environment for each individual and for the collective benefit of all. All faculty members are expected to exhibit and convey good citizenship within department, college, and university activities, interact collegially and maintain the highest standards of integrity and ethical behavior.

Minimum Required Qualifications:

- Ph.D. or equivalent degree in Aerospace Engineering or a closely aligned field.
- Associate Professor candidates must also meet the university standards for appointment to the rank, including significant experience/accomplishments in the candidate's area of expertise.

Preferred Qualifications:

- Evidence of collaboration and leadership in research and education.
- All aerospace application areas will be considered; however, the department is particularly interested in new directions in computational aerodynamics, novel numerical techniques, data-driven modeling or data assimilation for aerodynamic applications, innovations in turbulence and transition modeling, and in areas related to aircraft, spacecraft and rocket propulsion.
- An ability to teach undergraduate aerospace courses in one or more of the following areas: low

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and high-speed aerodynamics, airbreathing and rocket propulsion, and basic and advanced numerical methods for fluid flow simulation.

Department/Program & College Description

About the Aerospace Engineering Department

The Department of Aerospace Engineering is nationally recognized for its research and teaching. The department has an ABET-accredited undergraduate program in aerospace engineering and graduate programs offering MEng, MS, and PhD degrees in both aerospace engineering and engineering mechanics. The department comprises 20 full-time tenured/tenure-track faculty, 12 non-tenure eligible teaching and research faculty, 15 staff members, and approximately 1000 undergraduate and 90 graduate students.

About Iowa State University and the Ames Community

[Iowa State University](#) is classified as a Carnegie Foundation Doctoral/Research University-Extensive and is ranked by U.S. News and World Report as one of the top public universities in the nation. More than 30,000 students are enrolled and are served by over 6,200 faculty and staff. The College of Engineering consists of eight departments with annual research expenditures exceeding \$105 million dollars.

Iowa State University is located in the city of [Ames, IA](#) a progressive community of 66,000, located approximately 30 minutes north of [Des Moines](#) one of the fastest-growing metro areas in the Midwest, and is beaming with community pride and [accolades](#).

Iowa State University is a global and culturally diverse university committed to providing an inclusive, equitable, and diverse environment for both learning and employment. We know that diversity in experience and perspective is vital to advancing innovation, critical thinking, solving complex problems, and building an inclusive academic community. At Iowa State, we translate these values into action by seeking individuals who have experience working with diverse students, colleagues, and constituents.

Iowa State University and the College of Engineering are responsive to the needs of dual-career couples and are dedicated to work-life balance through an array of flexible work policies.

Department Unit/Website

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For more information on the department, please visit <http://www.aere.iastate.edu/>.

EEO/AA Policy

Iowa State University is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, genetic information, national origin, marital status, disability, or protected veteran status and will not be discriminated against. Inquiries can be directed to the Office of Equal Opportunity, 3410 Beardshear Hall, 515 Morrill Road, 515 294-7612, email eooffice@iastate.edu.

Contact Information

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

Contact Arlene Grebasch
Aerospace Engineering and Engineering Mechanics
Iowa State University
537 Bissell Road, 1200 Howe Hall
Ames, IA 50010

Phone Number 515-294-8456
Contact E-mail grebasch@iastate.edu