

## **Aerospace Engineering - Assistant/Associate/Full Professor**

### **Job Description:**

The Department of Aerospace Engineering, in the College of Engineering at Iowa State University invites applications for the position of tenure-track assistant professor in the area of computational fluid dynamics. Exceptional candidates with commensurate experience and proven track record will be considered for Associate and Full Professor ranks. The department currently has thermofluids faculty who conduct research in applied mathematics and computations for aeroacoustics, turbulence and transition, low Reynolds number flow, boundary layers, rotorcraft aerodynamics and aircraft icing. All aerospace application areas will be considered, however, the department is particularly interested in areas related to propulsion, high speed aerodynamics and turbulent flows.

Successful candidates will be expected to establish, sustain and grow a world-class research program that complements or aligns with the department's areas through both independent and collaborative efforts. Additionally, the candidate is expected to establish a record of scholarship at the highest levels, contribute to the teaching missions at the undergraduate and graduate levels, and 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.

### **Department/College/University/Community Description**

The Department of Aerospace Engineering is nationally recognized for its research and teaching, offering BS, MS, and PhD degrees. The department has an ABET accredited undergraduate program in aerospace engineering and graduate programs in aerospace engineering and engineering mechanics. The department has research strengths in mechanics of materials systems; aerodynamics; aero-structural interaction; complex systems and optimization; guidance and control; and non-destructive evaluation and testing. The faculty is comprised of 25 full-time tenured/tenure-track, 9.6 non-tenure eligible teaching, and 1 non-tenure eligible research faculty, 16 staff members, and approximately 987 undergraduate, and 111 graduate students. Departmental research expenditures exceed \$7 million in 2018-19. For more information on the department, please visit <http://www.aere.iastate.edu/>.

### **Preferred Qualifications:**

- Evidence of collaboration and leadership in research and education
- Experience in algorithm development and applications of computational fluid dynamics
- Experience in high performance computing
- All aerospace application areas will be considered, however, the department is particularly interested in areas related to propulsion, high speed aerodynamics and turbulent flows
- An ability to teach graduate and undergraduate courses in computational fluid dynamics

- An ability to teach graduate and undergraduate aerospace engineering courses involving basic programming and numerical methods, wing and body aerodynamics, aircraft and rocket propulsion, and gas dynamics

**Application Instructions:**

To receive full consideration, applications should be received by November 15, 2019. All interested, qualified persons must apply for this position online at [jobs.iastate.edu](https://jobs.iastate.edu) to Job Requisition Number R666.

[https://isu.wd1.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Aerospace-Engineering---Assistant-Associate-Full-Professor\\_R666](https://isu.wd1.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Aerospace-Engineering---Assistant-Associate-Full-Professor_R666)

The following documents are required to be submitted in PDF format:

- 1) letter of application (including information about desired rank),
- 2) curriculum vitae,
- 3) contact information for at least three references, including name, mailing address, email address, and phone number, and other pertinent information and
- 4) other documents: a) one-page teaching statement b) one-page research statement, and c) inclusivity and diversity statement.

Direct questions to [tlthuney@iastate.edu](mailto:tlthuney@iastate.edu), or call 515-294-8950.