

Postdoctoral Aerodynamics and Flow Control
University of South Florida

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Posted May 10, 2025, set to expire Sep. 9, 2025

Job Title Postdoctoral Aerodynamics and Flow Control

Department Department of Mechanical and Aerospace Engineering

<https://www.tdlab.info/>

Institution University of South Florida

Tampa, Florida

Date Posted May 10, 2025

Application May 31, 2025

Deadline

Position Start Aug. 1, 2025

Date

Job Categories Post-Doc

Academic Mechanical Engineering

Field(s)

Aerospace/Aeronautical/Astronautics

Engineering - Other

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Job Description

Responsibilities

This position is funded by NASA. The position requires regular progress reports to the agency. The

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postdoc researcher will perform research in computational aerodynamics and flow control; thus, an established background in these areas is a must. Knowledge of aircraft design and machine learning is a plus. This position requires active collaboration with the propulsion and structure teams to identify and implement modifications to a baseline aircraft design to improve the aerodynamic performance by leveraging the expanded design space provided by electric propulsion. The position requires documenting and disseminating the team's findings through peer-reviewed scientific articles. Reliable and consistent attendance is crucial, as is maintaining collegial and effective working relationships with other team members within and outside the University of South Florida.

Qualifications

Minimum Qualifications:

- PhD in Mechanical or Aerospace Engineering
- Experience in computational aerodynamics and flow control
- Experience in CFD and machine learning

Preferred Qualifications:

- Experience with using optimization tools for design
- Experience with aircraft design

Contact Information

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

Contact Dr. Ahmad Vasel-Be-Hagh
Department of Mechanical and Aerospace
Engineering
University of South Florida
Tampa, FL 33620

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Contact E-mail vasselbehagh@usf.edu