University of Stuttgart
Institute of Aerodynamics and Gas Dynamics

ATLAS
CRC 1667

Uncertainty Analysis of Satellite Aerodynamics in VLEO

Ph.D. Position

TV-L E13, full time

The Numerics Research Group at the IAG is looking for a research associate at the doctoral level for an exciting research project as soon as possible. Within this project, we will explore robust and novel design methods for satellites in very low earth orbit.

The tasks include

- Design and development of a simulation framework
- Multifidelity simulations of aerodynamic forces in VLEO
- Uncertainty quantification for robust satellite design

Requirements

- Master's degree or equivalent in engineering, applied mathematics or related fields, preferably with a background in numerical methods for PDEs, particle based methods and uncertainty quantification
- Fluency in either German or English (written & oral)
- Ability to work in an international team

The IAG encourages publication of results in scientific journals and supports participation in international conferences. The position is initially limited to three years, but an extension beyond this period is possible.

The IAG is committed to increasing the number of female scientists. Severely disabled persons are given priority if equally qualified.

Please send your full application (cover letter, CV, transcripts) or questions exclusively to **applications.nrg@iag.uni-stuttgart.de.** Please mention **Ph.D.: ATLAS** in the subject!

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NRG