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ESCUELA TÉCNICA SUPERIOR DE
INGENIERÍA AERONÁUTICA Y DEL ESPACIO

Research Engineer

Aircraft simulations using Computational Fluid Dynamics and immersed boundary methods

Job description

Together with Airbus Spain, we are looking for a highly skilled engineer to perform aircraft simulations (high lift configurations, full aircraft in cruise, etc.) using Computational Fluid Dynamics and immersed boundary methods to develop *new Hybrid-Electric aircraft concepts* within the European project HERA https://cordis.europa.eu/project/id/101102007.

The position requires good knowledge of aeronautics, aerodynamics, computational fluid dynamics, high performance computing and pre/post processing techniques for CFD. Programming experience with C++ and Python is advantageous. The successful candidate will have good communication and analytical skills, and should be able to work independently and also collaborating with a team.

We are looking for a highly motivated and dynamic researcher to join Prof. Ferrer's team (https://sites.google.com/site/eferrerdg/) at the school of aeronautics ETSIAE-UPM in Madrid, Spain.

Required qualifications

Mandatory technical skills and experience:

- **Background:** ***European citizenship is required.***
- **Technical Background:** Aeronautical Engineering.
- **Required knowledge**: Computational Fluid Dynamics, Paraview, mesh generators.
- **Skills:** Excellent computational skills: Python and C++.
- **Additional knowledge**: immersed boundary methods, high order discontinuous Galerkin.

Language skills:

- Fluent in English.
- Spanish is not required but advantageous

What do we offer?

A competitive salary for 2 years (may be extended). We also offer to work in a stimulating, young and multicultural environment, and to be part of a dynamic and growing research team.

How to apply?

Please send your CV, marks and references, to esteban.ferrer@upm.es quoting the reference **CFD_UPM_Airbus_2023** before **25th of July.**