POSTDOC POSITION - FLUID DYNAMICS, FLOW CONTROL

Department of Mechanical Engineering

The University of Sheffield, United Kingdom

Research: The objective of the research project is to study the reduction of turbulent boundary-layer drag for aerospace applications through an open-loop method. The flow will be simulated by means of direct numerical simulations. This project is part of a large H2020 programme project involving major Universities, Institutions and Aerospace Industries in Europe and China. The researcher will work as part of a coordinated team of investigators working on wall-bounded flow problems within the Department of Mechanical Engineering.

Duration: 8 months starting in May/June 2017.

Skills and Experience

PhD or post-doc in numerical fluid mechanics and aerodynamics, preferably some experience in DNS or LES.

Excellent knowledge of wall-bounded turbulent flows and (desirable) flow control techniques.

Programming skills in Fortran or any other high level language.

Extensive knowledge of numerical simulations to solve fluid mechanics problems.

Other requirements

Self-motivation and passion for research in fluid mechanics and aerodynamics.

Excellent communication of research results and writing skills (in English).

Deadline: Until position is filled.

Please send a letter expressing your interest in the position and a copy of your CV with the contacts of three academic referees as a single pdf file to

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