





CALL FOR APPLICATIONS

12 PhD positions in the Marie Skolodowska Curie Action -**Doctoral Network**

TITLE: Modelling of Plasma Assisted Combustion LOCAL SUPERVISOR: prof. Maria Grazia De **HOST ISTITUTION: University of Salento (IT)** DC2 TITLE: Investigation of chemical pathways in hydrogen combustion **LOCAL SUPERVISOR: prof. Benedicte Cuenot** Prof. Andrea Giusti; CO-SUPERVISOR: N. Barleon; **HOST ISTITUTION: CERFACS (Fr) / IC (UK)** DC3 TITLE: Hydrogen flame response to combined electrical and acoustic modulations LOCAL SUPERVISOR: prof. Thierry Schuller **HOST ISTITUTION: INPT** DC4 TITLE: Data-driven closures for large-eddy simulation of turbulent hydrogen combustion with electric fields LOCAL SUPERVISOR: prof. Antonio Andreini **HOST ISTITUTION: UNIVERSITY OF FLORENCE** DC5 TITLE: Large-eddy simulation modelling of multi-mode hydrogen combustion with magnetic fields **LOCAL SUPERVISOR: Dr Ivan Langella HOST ISTITUTION: TECHNISCHE** UNIVERSITEIT DELFT DC6 TITLE: Modelling of plasma-assisted combustion for the control of combustion LOCAL SUPERVISOR: prof. Benedicte Cuenot CO-SUPERVISOR: N. Barleon **HOST ISTITUTION: CERFACS**

APPLICATION PROCESS

In order to apply, send an email to both info@icharus.eu and mariagrazia.degiorgi@unisalento.it

The mail subject has to be ICHARUS DC X (X being the number of the project). Please include a letter of interest, a CV and at least one recommendation letter as one pdf file (max file size 5 MB).

Applicants should send multiple application emails if applying for more than one position

https://icharus.eu/

TITLE: Modelling of plasma-assisted c ombustion for the control of combustion instabilities LOCAL SUPERVISOR: prof. Benedicte Cuenot CO-SUPERVISOR: N. Barleon **HOST ISTITUTION: CERFACS** TITLE: Experimental characterization of stability of swirl flame under plasma discharges, LOCAL SUPERVISOR: prof. Antonio Ficarella; CO-SUPERVISOR: Maria Grazia De Giorgi **HOST ISTITUTION: University of Salento TITLE: Experimental Studies of the** interaction of instable flames and NRP forcing LOCAL SUPERVISOR: Prof. Oliver Paschereit; **CO-SUPERVISOR: Prof. Myles Bohon HOST ISTITUTION: Technische Universität** High-fidelity CFD modelling of stability and control of gas turbine hydrogen burners LOCAL SUPERVISOR: prof. Andreini Antonio **HOST ISTITUTION: University of Florence** DC10 TITLE: Study of piloting and fuel staging for hydrogen injectors **LOCAL SUPERVISOR: Klaus Peter Geigle HOST ISTITUTION: DLR, Enrollment:** University of Stuttgart DC11 TITLE: Investigation of electromagnetic effects at the small scales LOCAL SUPERVISOR: Prof. Andrea Giusti **HOST ISTITUTION: Imperial College, UK** DC12 TITLE: Direct numerical simulations of turbulent flames under external electromagnetic fields LOCAL SUPERVISOR: Prof. Andrea Giusti











HOST ISTITUTION: Imperial College, UK



