

TWO PHD POSITIONS AVAILABLE IN GENOVA, ITALY

MARIE-SKŁODOWSKA CURIE ACTION "POLKA"



UNIVERSITÀ DEGLI STUDI
DI GENOVA

ANSALDO
ENERGIA

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MARIE-SKŁODOWSKA CURIE ACTION "POLKA"

Position at the University of Genova

"Optimization of a prototype thermo-acoustic system"

The research work towards the PhD degree will require the development of weakly nonlinear models of thermo-acoustic systems with the aim of studying the energy transfer among different modes, in order to devise strategies to channel the bulk of the acoustic energy towards instability modes which are not dangerous for combustor components.

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POLKA is a Marie-Skłodowska Curie *Innovative Training Network* coordinated by Keele University, UK, and composed by six Universities and four Companies throughout Europe. The network will study, in a coordinated fashion, combustion instabilities and their mitigation.

Positions for 36 months. Gross salary in excess of € 48 000 per year.

Applications are invited from graduates in Engineering, Physics, Applied Mathematics, and are accepted until positions are filled.

Secondment periods at partner institutions are foreseen.

Official starting date of the PhD program: November 1st, 2019.

Eligibility as by H2020 guidelines:

https://ec.europa.eu/research/mariecurieactions/sites/mariecurie2/files/msca-itn-fellows-note_en.pdf

Position at Ansaldo Energia

"Influence of increased fuel reactivity on gas turbine combustion dynamics"

The research work towards the PhD degree will require the development of CFD models to set up general guidelines and/or simplified models of the acoustic response in gas turbine combustion chambers fed with fuels of increased reactivity (i.e. with high H₂ content). Models will be validated with data from atmospheric pressure test rigs and engine tests.

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