ERC- ADVANCED GRANT DYCON POSTDOC CONTRACT, DEUSTOTECH

Company Description

Deusto University is headed by the love of wisdom and the desire to learn and inquire rigorously scientific methodology and the structure of reality. Therefore it seeks excellence in research and teaching. simultaneously seeks the formation of free competent professionals, those endowed with knowledge, values and skills that enable them to engage in the promotion of knowledge and the transformation of society, responsible citizens.

Information

Deadline: 2019-07-19
Country: Basque Country
Category: Business
Province: Bizkaia

Company

Universidad de Deusto

Main functions, requisites & benefits

Main functions

The Chair of Computational Mathematics led by E. Zuazua of the DeustoTech Research Center in Bilbao (Basque Country, Spain) offers a postdoctoral position to carry out mathematical and computational research, with excellent facilities within a world-wide academic and industrial-technological network. This position is funded by the European Research Council (ERC) Advanced Grant "DYCON – Dynamic Control". Research activities will be focused in some of the priority lines of the project, that will be identified accordingly to the candidate's profile. Faculty or Centre: DeustoTech, University of Deusto, Bilbao, Basque Country,Spain. Job Summary: The European Research Council (ERC) Advanced Grant "DYCON – Dynamic Control", coordinated by Enrique Zuazua at DeustoTech (University of Deusto, Bilbao – Basque Country – Spain), aims to develop a multifold research agenda in the broad area of Control of Partial Differential Equations (PDE) and their numerical approximation methods to contribute with new key theoretical methods and results, and to develop the corresponding computational software. This project identifies six key topics:
control of parameter dependent problems;
long finite time horizon control;
control under constraints;
inverse design of time-irreversible models;
memory models and hybrid PDE/ODE models,
and the links between finite and infinite-dimensional dynamical systems.

The chosen postdoc researcher will carry out mathematical and/or computational research on some of the main scientific priorities of DYCON in a multidisciplinary and international environment with excellent facilities. Job Description: The chosen postdoc researcher will carry out mathematical and/or computational research, with excellent facilities and world-wide academic and industrial-technological network, in DeustoTech (Bilbao – Basque Country – Spain) in some of the priority lines of the project, that will be identified accordingly to the candidate's profile. Main Research Field: Partial Differential Equations
Control Systems
Numerical Analysis
Scientific Computing

Places Available: 1 Estimated Period: 12 months from November 2019 (or earlier if availability allows). Campus: Bilbao

Requisites

PhD Thesis in Mathematics, Physics, Informatics, Engineering or closely related areas, with emphasis on Partial Differential Equations, Control theory, Numerical Analysis and/or Scientific Computing