1 PhD Contract in Dynamic Control (DyCON)

The European Research Council (ERC) Advanced Grant “DyCon – DynamicControl”, coordinated by Enrique Zuazua, 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 doctoral candidates will enroll the PhD Program of “Universidad Autónoma de Madrid (UAM)”, and carry out mathematical and computational research on some of the main scientific priorities of DyCon in a multidisciplinary and international environment with excellent facilities.

Description
The chosen doctoral candidates will carry out mathematical and computational research in the Mathematics Doctoral Program of the Universidad Autónoma de Madrid (Spain), with excellent facilities and worldwide academic and industrial technological network. The project team has a dual location, both at UAM and DeustoTech-Bilbao, the later offering added opportunitis for interaction with Computer Sciences and Industry.

The duration of the contract is 36 months.

Applicants should directly write to the PI of DyCon, Professor Enrique Zuazua, to the email address ‘dynamic.control@uam.es', including the following documents in pdf format:

*CV
* Academic certificates and qualifications.
* Letter of presentation describing the academic trajectory of the candidate, scientific interests and motivation for the present DyCON call.
* Two recommendation letters (preferably they should be sent directly by the reference persons).
Research Fields
Mathematics - Computational mathematics

Career Stage
Early stage researcher or 0-4 yrs (Post graduate)

Research Profiles
First Stage Researcher (R1)

Benefits
Starting date is 1.10.2018 or earlier, if possible. Starting salary is approximately 1.500 €/month. Full time doctoral candidates are expected to complete their theses in three-four years. The contract includes Spanish Social Security and Healthcare public plans.

Additional job details
For more information please visit the DyCon webpage (http://cmc.deusto.es/dycon/), and those of the Department of Mathematics (http://verso.mat.uam.es/web/index.php/es/) and UAM (https://www.uam.es/ss/Satellite/en/home.htmread), contact Prof. Enrique Zuazua team (dynamic.control@uam.es) for additional information on the research topics or any other query.

UAM-Madrid reserves the right for justified reasons to leave the positions open, to extend the application period and to consider candidates who have not submitted applications during the application period.

Application Deadline 15/05/2018