ERC AdvG DyCon- E. Zuazua

Euraxes call 1 Post-doctoral contract, October 2018

Preview

1 Post doctoral Contract in Dynamic Control (DyCON)

The European Research Council (ERC) Advanced Grant “DyCon – Dynamic Control”, 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 computational software.

This project identifies six key topics:

1) control of parameter dependent problems;
2) long finite time horizon control;
3) control under constraints;
4) inverse design of time-irreversible models;
5) memory models and hybrid PDE/ODE models,
6) and the links between finite and infinite-dimensional dynamical systems

and gathering all contributions develops a Computational Software platform.

Description

The European Research Council (ERC) Advanced Grant “DYCON – Dynamic Control”, 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.

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.

The duration of the contract is of 12 months, with a possible extension to one or two more years.

Research Fields

Mathematics - Computational mathematics – Control theory – Scientific Computing

Research Profiles

Post doctoral

Benefits

Starting date is February, 2019 or earlier, if possible. The annual gross salary will be 29,500,00 € and local tax regulations will be applied on this amount. The contract includes Spanish Social Security and healthcare public plans.

Comment/web site for 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/).

Please contact Prof. Enrique Zuazua (dynamic.control@uam.es) for additional.

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

Requirements

a) 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.

b) Able to work in a highly motivated environment.

c) Strong team working & communication skills.

d) Good written English skills.

e) Driven, independent personality.

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

- Cover Letter
- Curriculum Vitae
- Brief research proposal aligned with DyCon objectives
- Contact Information for two or three references
- Complementary material

Additional Requirements

Not applicable

Application Deadline 15/11/2018