Severo Ochoa PhD Position in Aeronautics Group (VAC-2020-63)

The International Centre for Numerical Methods in Engineering (CIMNE, www.cimne.com) is a research centre, created in 1987 by consortium between the Catalan Government and the Universitat Politècnica de Catalunya (UPC-BarcelonaTech), devoted to the development and application of numerical methods to a wide range of areas in engineering. CIMNE has been selected as a Severo Ochoa Centre of Excellence for the period 2019-2023. This is the highest level of recognition of excellence and leadership awarded to a research centre in Spain.

CIMNE is offering a research position that will be funded by the Severo Ochoa Programme.

Position details

Number of vacancies: 1
Category: PhD (PHD3)
Location: Barcelona/Castelldefels
Yearly salary (gross): 16.246,05 EUR
Working hours: Full time
Duration: 3 years
Starting date: No later than November 2020

Functions to be developed by the applicant

CIMNE is looking for a **PhD Researcher** to be part of the Research and Technical Development (RTD) Group on Aeronautics. Being a multi-disciplinary group, the Aeronautics Group at CIMNE is focusing on CFD for membrane structures, like parachutes, and Optimization methods, like Genetic Algorithms. The group is collaborating with international research establishments in the field of optimization and disruptive aircraft configuration, field the research proposal will focus on.

The functions assigned to the candidate will be:

- Complete a PhD on Aerospace Science and Technology at Technical University of Catalunya (UPC – BarcelonaTech). The candidate is expected to complete the PhD thesis in a maximum of three years.

- Collaborate with various research groups within CIMNE and worldwide.

- To publish a minimum of two papers in JCR journals during the PhD period.

Requirements

1. To be eligible for the scholarship grant the applicants have to meet the conditions to be enrolled to the doctoral program previously mentioned at the moment of the signature of the contract.

2. Candidates who have already been awarded a PhD are not eligible to apply.

3. Excellent academic record.

4. High working knowledge of English.

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A Consortium of

Generalitat de Catalunya

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

In cooperation with:

UNESCO

Other valued skills

- Previous research and/or academic experience in the field of the position
- Programming skills C++, Python, Fortran
- Language skills: other EU languages (French, German, Spanish or Catalan will be a plus)
- Knowledge of optimization methods (deterministic and stochastic ones, linear and non-linear programming, or other heuristics will be a plus)
- Knowledge of HPC and HTC environments
- Knowledge of LATEX and Office packages
- Knowledge of Linux and Windows OS

Evaluation procedure

The requirements and merits will be evaluated with a maximum mark of 100 points. Such maximum mark will be obtained by summing up the points obtained in the following items:

- Academic record (60%)
- Previous research and academic experience in the field of the position (20%)
- Programming skills (10%)
- Language skills (10%)

How to apply

Candidates must complete the "Application Form" on our website, indicating the reference of the vacancy and attaching the following documents **in English**:

- Curriculum vitae
- A motivation letter
- Academic transcripts from all Undergraduate and MSc degrees
- Name and institutional contact information of two possible referees

The deadline for registration to the offer ends on October 2nd, 2020 at 12 noon.

Application will be reviewed by CIMNE Severo Ochoa selection committee.

The shortlisted candidates may be called for an interview. They may also be required to provide further supporting documentation.

CIMNE is an equal opportunity employer committed to diversity and inclusion. We are pleased to consider all qualified applicants for employment without regard to race, colour, religion, sex, sexual orientation, gender identity, national origin, age, disability or any other basis protected by applicable state or local law. CIMNE has been awarded the HRS4R label.