Severo Ochoa PhD Position in Naval and Marine Engineering Group (VAC-2020-62)

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
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 Naval and Marine Engineering. The Group's activities are related to the development and application of computational methods and assessment tools in the fields of naval architecture, marine and ocean engineering.

The functions assigned to the candidate will be:

- Complete a PhD on Naval Architecture and Ocean Engineering at Universitat Politècnica de Catalunya - 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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Other valued skills

- Previous academic experience in the field of the position (in particular, MSc studies in Naval Architecture or Ocean Engineering, although other Engineering fields or Physics are also admissible)
- Previous research experience in the field of the position
- Programming experience in C++/FORTRAN
- Other programming skills
- Mathematical skills: Keen with Numerical Methods
- Engineering skills: Advanced CAE user (fluid and structural mechanics).
- Knowledge of Spanish.

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.