

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

VAC-2019-51 – Severo Ochoa PostDoc Researcher Position in Fluid Mechanics Group

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 Technical University of Catalunya, 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: Post Doc Researcher (PDOC1)

Workplace: Barcelona

Salary (gross): 36.504,81 EUR

Weekly working hours: Full time

Duration: 3 years

Functions to be developed

CIMNE is looking for a **Postdoc Researcher** to be part of the Research and Technical Development (RTD) Group on Fluid Mechanics. The group works mainly in finite element methods applied to flow problems, including the design, mathematical analysis, implementation and validation of the methods. The position is intended to develop the topics of transport of pollutants in a fluid, interface capturing of two-fluid flows, multiphase flow, cavitation and related subjects. The functions assigned to the candidate will be:

- Plan and conduct high quality research in collaboration with Severo Ochoa IPs
- Collaborate and foster new cooperation with European and International research groups and institutions
- Help supervise MSc and PhD students
- Document and disseminate the research results within CIMNE and externally
- Publish in high impact journals (a minimum of 2 papers/year is envisaged)
- Participate in research projects and contracts of interest for the RTD Group
- Submit competitive RTD research proposals

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

- Collaborate in the active search of funding resources for the research group
- Collaborate in training activities

Requirements

- Having obtained a PhD degree in computational mechanics at least 2 years before the application deadline, preferably in topics related to finite element methods in fluid mechanics.
- Good publication record (a minimum of 10 papers published in indexed journals).
- High working knowledge of English, both written and spoken.
- Good knowledge of object oriented codes for scientific computing.

Other valued skills

- Previous research or academic experience in the field of the position (multiphase flow, two-fluid flows)
- Previous post doc stages at an entity, different to the one where the PhD was awarded
- Good programming skills
- Extra language skills
- Good communication/Teaching skills

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:

- Publication and career track (30%)
- Previous research and academic experience in the field of the position (20%)
- Post doc stages (15%)
- Programming skills (15%)
- Language skills (10%)
- Communication/Teaching 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:

- Curriculum vitae, including Researcher's ID or ORCID No.
- A motivation letter, including a brief summary of work experience and a statement of research interests and career goals.
- Academic transcripts from all Undergraduate, MSc and PhD degrees.
- At least three reference letters.

The deadline for registration to the offer ends on **January 31, 2020 at 12:00 noon.**

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

Applications will be reviewed by CIMNE Severo Ochoa selection committee. The shortlisted candidates may be called for an interview and must send to seleccio@cimne.upc.edu all the proving documentation of the requirements and merits, if not already submitted during the application phase.

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.