

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

VAC-2019-55 – Severo Ochoa PostDoc Trainee Position in Structural Mechanics Group

CIMNE 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 accredited 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 Trainee (PDOC2)

Workplace: Barcelona

Salary (gross): 31.289,84 EUR

Weekly working hours: Full time

Duration: 2 years

Functions to be developed:

CIMNE is looking for a **Postdoc Trainee** to be part of the Research and Technical Development (RTD) Group on Structural Mechanics. The research carried out in this group focuses on the development of innovative finite element and particle-based numerical methods for solving problems in solid, structural and continuum mechanics involving non linearities, multi-physics situations (thermal-mechanical coupling, interaction with fluids, etc) and frictional contact interactions.

The new postdoc will join the research team within the group working on the development of multi-scale numerical procedures for solving problems involving the interaction of complex fluids and structures.

The functions assigned to the candidate will be:

- Plan and conduct high quality research under the supervision of Drs. Sergio Idelsohn and Eugenio Oñate
- Collaborate with various research groups across Europe and elsewhere
- Document and disseminate the research results within CIMNE and externally
- Publish in high impact journals (a minimum of 2 papers/year is envisaged)

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- Participate in research projects and contracts with industry of interest to the RTD Group
- Collaborate in the preparation of competitive RTD research proposals

Requirements

- Having obtained a PhD degree in civil or mechanical engineering.
- Good publication record in indexed journals.
- Good knowledge of English, both written and spoken.
- Good knowledge of continuum mechanics and of the finite element method

Other valued skills

- Previous research and/or academic experience in the field of the position
- Good programming skills
- Foreign language skills
- Good communication/Teaching skills
- Good knowledge of particle-based methods applied to engineering mechanics
- Good knowledge of multiscale computational mechanics procedures

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 (40%)
- Previous research and academic experience in the field of the position (20%)
- Programming skills (20%)
- Language skills (10%)
- Communication/Teaching skills (10%)

How to apply

Candidates must complete the "[Application Form](#)" on CIMNE website, indicating the reference of the vacancy and attaching the following documents:

- Curriculum vitae, including Researcher's ID or ORCID No.
- A motivation letter.
- Academic transcripts from all Undergraduate, MSc and PhD degrees.
- Two reference letters.

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

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

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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.