

VAC-2022-03 – Severo Ochoa PostDoc Computational Material Design

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

Yearly Salary (gross): 32.202,88 EUR

Weekly working hours: Full time

Duration: 1 year (renewable)

Description of the research group

Computational Design & Analysis of Engineering Metamaterials group

The mission of the group is the development of new computational tools for designing metamaterials with extreme acoustic, mechanical and electro-magnetic properties, focusing engineering applications.

The research team is formed at present by:

- Prof. Xavier Oliver : <http://oliver.rmee.upc.edu/xo>
- Prof. Juan Cante: <https://futur.upc.edu/JuanCarlosCanteTeran>
- Dr. Oriol Lloberas-Valls: <https://futur.upc.edu/OriolLloberasValls>
- Dr. David Roca: <https://futur.upc.edu/DavidRocaCazorla>

As well as 4 PhD students.

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

Functions to be developed:

CIMNE is looking for a **Postdoc Trainee** to be part of the Research and Technical Development (RTD) topic of **Computational Design & Analysis of Engineering Metamaterials**

The functions assigned to the candidate will be:

- Plan and conduct high quality research on the group investigation topics
- Collaborate with various research groups across Europe and elsewhere
- Document and disseminate the research results within CIMNE and externally
- Publish in high impact journals
- Participate in research projects and contracts with industry of interest to the RTD Group
- Collaborate in the preparation of competitive RTD research proposals

Requirements

1. Having obtained a PhD degree in Mechanical, Aeronautical or Civil Engineering at the moment of the signature of the contract.
2. Good publication record (a minimum of 4 papers published in indexed journals)
3. Good knowledge of English, both written and spoken.

Other valued skills

1. Previous research and/or academic experience in the field of the position
2. Programming skills in English
3. Language skills English
4. Good communication/Teaching skills in English
5. Background in Computational Design and Optimization of Engineering Materials

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/or academic experience in the field of the position (30%)
- 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.
- At least two reference letters.

The deadline for registration to the offer ends on **January 27, 2022 at 12:00 noon**.

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

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.

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.