

ANNOUNCEMENT FOR THE PROVISION OF A WORKPLACE

VAC-2019-67 – Severo Ochoa PhD Position in Building Energy and Environment 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: PhD (PHD3)

Workplace: Lleida

Salary (gross): 16.167,91 EUR

Weekly working hours: Full time

Duration: 3 years

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 Building Energy and Environment (BEE). BEE Group is an independent research group formed by 15 researchers. It was founded in 2001. BEE Group meets the challenge of employing their knowledge and experience to help stakeholders to get the best possible use out of the energy that they consume. BEE Group's R&D activities are focused on: (i) Demand Response in buildings by developing technologies to maximize the flexibility of the electricity network (ii) Energy empowerment and user behaviour with the aim at supporting energy users to save energy by positively manage their energy consumption (iii) big data analytics for energy efficiency in buildings by developing data driven algorithms; (iv) energy positive living by working actively to raise the awareness of the trend towards near zero; (v) bio-digesters by working in design, implementation and installation of domestic and industrial bio-digesters.

The functions assigned to the candidate will be:

- Complete a PhD on IT and Engineering at the University of Lleida. The field of expertise will be: "Data driven techniques for the energy performance of large amounts of commercial buildings.
- 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.

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Requirements

1. The position is aimed at students (Spanish nationals, EU and non EU citizens) who have completed one of the following options:
 - a) The studies that lead to an official Spanish, or European Higher Education Area, 1st cycle university degree (BSc) in Physics, Computer science, Mechanical Engineering or in Energy related disciplines and that have 180 credits (ECTS) of an official university degree.
 - b) A degree from a non-European Higher Education Area university that gives access to MSc studies in Computer Science, Energy Engineering, Building physics or Mechanical Engineering.To be eligible for the scholarship grant the applicants have to meet the conditions to be enrolled to a doctoral program at the moment of the recruiting.
2. Excellent academic record.
3. High working knowledge of English.
4. Candidates who have already been awarded a PhD are not eligible to apply.
5. Previous knowledge in statistical modelling and data analysis
6. Previous knowledge in building physics or energy efficiency

Other valued skills

- Previous research or academic experience in the field of the position
- Programming skills in Python or R
- Language skills
- Opened to live and work in Lleida City, at the premises of CIMNE-Lleida

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:

- A curriculum vitae
- A motivation letter
- At least one reference letter
- Certified academic record (both Undergraduate and the MSc degrees)

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

Application 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.