

# JOB VACANCY ANNOUNCEMENT

## VAC-2025-30 – Innovation Developer Position in Industrial Manufacturing Processes Group

**Number of places:** 1

**Category:** Innovation Developer

**Workplace:** Barcelona

**Salary (gross):** 35.186,46 €

**Weekly working hours:** Full time (40 hrs)

**Contract type:** ID 2

**Duration:** From June 1, 2025, to May 31 2026.

### Functions to be developed:

The functions assigned to the candidate will be:

- Collaborate with various research groups within CIMNE and worldwide.
- To publish a minimum of two papers in JCR journals during the contract period.

The details of the job are as follows:

- Develop a Digital Twin to model temperature distribution and detect defects in advanced manufacturing processes.
- Integrate Artificial Neural Networks (ANNs) to optimize process parameters.

*Contrato financiado a traves del Proyecto PID2023-147968OB-I00 financiado por MCIU/AEI/10.13039/501100011033/ FEDER, UE.*



### Required skills:

- Having obtained a PhD/Master degree in Computational Engineering/Physics at the moment of the signature of the contract.
- Good publication record (a minimum of 6 papers published in indexed journals).
- Good knowledge of English, both written and spoken (minimum B2).
- Advanced knowledge of Machine Learning Techniques and Algorithms

### Other valued skills (not mandatory):

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- Previous research and/or academic experience in the field of the position.
- Programming skills Fortran 2008 Object Oriented, Python.
- Language skills Spanish.
- Good communication/Teaching skills.
- Previous experience in Parallel Computing (HPC).
- Windows and Linux OS.

### Qualification system:

The requisites and merits will be evaluated with a maximum note of 100 points. Such maximal note will be obtained summing up the following points:

- **Academic qualifications:** 30%
- **Training and development:** 20%
- **Professional experience:** 25%
- **Knowledge of the Catalan language:** 5%
- **Knowledge of the English language:** 10%
- **Selective tests and interview:** 10%

Candidates must complete the "Application Form" form on our website, indicating the reference of the vacancy and attaching the required documents.

The deadline for registration to the offer ends on April 1st, 2025 at 12 noon.

The preselected candidates may be requested to send the documentation required in the "Requirements" and "Merits" sections, duly scanned, and may be called to go through selection tests (which might be of eliminatory nature) and / or personal interviews.

### Commitment to inclusivity:

At CIMNE, we champion workplace equity, diversity, and inclusion. We're committed to fostering a culture where everyone can thrive, leveraging diverse talents and backgrounds. We welcome all applicants regardless of color, religion, gender, origin, abilities, gender identity, sexual orientation, pregnancy or any other characteristic. Join us in building a community that values, celebrates, and respects every individual.

### HR Excellence in Research:

CIMNE welcomes and supports the principles of European Commission's [European Charter for Researchers](#) and the [Code of Conduct for the Recruitment of Researchers](#), embracing a transparent, attractive, and open labour market in research. The centre's Human Resources Strategy for Researchers (HRS4R) includes an action plan with actionable short and long-term actions to support a high-quality working environment for all. Further

information can be found [here](#).

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