

JOB VACANCY ANNOUNCEMENT

VAC-2025-12 – Researcher on Computational Laser-matter Interaction Physics

Number of places: 1

Category: PhD 3

Workplace: CIMNE – Campus Nord UPC

Salary (gross): 18.148,41 € for the first and second year, 19.479,00 € for the third year

Weekly working hours: 40

Contract type: PhD

Duration: 3 years

Functions to be developed:

- Studying the state of the art on the physics of laser-matter interaction for direct laser imaging and laser drilling applications.
- Proposing adequate physical models to describe the engineering process relevant to the engineering processes under study.
- Developing, implementing and debugging algorithms for the numerical solution for the equations stemming from the models above using rigorous mathematics.
- Writing research papers on the topic.
- Periodically reporting the work done and defending the research ideas with the project partners.

Required skills:

- Strong mathematical and physical background.
- Independence and drive in study and research.
- Good reasoning and writing skills.

Other valued skills (not mandatory):

- Experience with experimental work, especially if related to lasers.

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: 20%
- Training and development: 20%
- Professional experience: 15%
- Knowledge of the Catalan language: 5%
- Knowledge of the English language: 10%
- Selective tests and interview: 30%

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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 January 24th, 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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