

JOB VACANCY ANNOUNCEMENT

VAC-2025-48 – PhD in Port Electrical Planning. Port of Barcelona fellow

Number of places: 1

Category: PhD Student - PHD 1

Workplace: CENIT's Offices (Avda. Josep Tarradellas, 40) and Port of Barcelona's offices

Salary (gross): 28.000,00 €

Weekly working hours: 40hrs/week

Contract type: PhD

Duration: 3 years

Functions to be developed:

This position aims to develop a PhD with CENIT, the Innovation Unit in Transport at CIMNE, and the Port of Barcelona. The PhD will be done in collaboration with the Department of Strategy and Innovation of the Port of Barcelona and with constant interaction with all Port Community of Barcelona and other international ports. This PhD opportunity is financed by the Port of Barcelona.

The specific functions are as follows:

- Research on electrical planning applied to the port sector and focused among other aspects on the green electricity production and storage, auto-consumption and distribution, the management of smart energy grids, , closed grids, electrification of port operations, electrification of docks (OPS) etc. These topics are indicative. Part of the function of the candidate will be to concrete the research topics in collaboration with the Ph.D. advisor and the Port of Barcelona.
- The candidate will be working both in the offices of the Port of Barcelona and the Center for Innovation in Transport CENIT.
- Production of scientific articles in indexed journals related to the research carried out for the doctoral thesis or postdoctoral project.
- Publications in the Innovation Blog of the Port of Barcelona, PierNext.
- Participation in national and international congresses during the duration of the contract
- Collaboration in research and innovation projects with the Center for Innovation in Transport CENIT and the Port of Barcelona

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Required skills:

- Master in industrial engineering focused on electrical engineering and planning or master with deep knowledge in electricity.
- Fluent in Spanish and English.
- Innovation and creativity
- Open-minded to work in innovation projects and applied research

Other valued skills (not mandatory):

- Experience in the maritime and/or ports sectors.
- Scientific publications in the field of electrical grids.
- Experience in international projects
- Other languages

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:** 15%
- **Training and development:** 10%
- **Professional experience:** 15%
- **Knowledge of the Catalan language:** 5%
- **Knowledge of the English language:** 15%
- **Selective tests and interview:** 40%

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 July 7th, 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

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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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