

JOB VACANCY ANNOUNCEMENT

VAC-2025-31 – Innovation Trainee 2 Position in Computational Electromagnetics

Number of places: 1

Category: Innovation Trainee 2

Salary (gross): 23.457,64 €/year

Working hours: 40h/week

Workplace: Barcelona

Description: We are looking for a Research Engineer with experience in Numerical Simulations, including pre- and post-processing, to support the development of computational models in electromagnetic field (EMF) exposure assessment. The selected candidate will contribute on evaluating human exposure to EMFs from next-generation radiofrequency technologies.

Functions to be developed: The selected candidate will be responsible of support on using numerical codes for computational electromagnetics, to analyse EMF exposure in Health, perform pre- and post-processing of simulation data, including mesh generation, boundary conditions setup, and results visualization and validate numerical models through comparison with experimental data and existing literature.

Required skills:

- Education: Master's or PhD in Electrical Engineering, Biomedical Engineering, Physics, Computational Science, or related fields.
- Experience: Proven experience in numerical simulations for computational electromagnetics (EM simulations, RF exposure modeling)
- Programming experience in scientific computing.
- Writing and communication skills (oriented towards the production of scientific articles and presentations).
- Experience with simulation tools such as CST Studio, COMSOL Multiphysics, HFSS, OpenEMS, or similar.
- Pre and Post Processing tools (Meshing capabilities).

Other valued skills (not mandatory):

- Experience in Python
- Experience in high-performance computing (HPC) for large-scale simulations (desirable)

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 (minimum required 50%):

- Academic qualifications/track Records: 20%

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- Training and development: 5%
- Professional experience: 20%
- Knowledge of the Catalan language: 5%
- Knowledge of the English language: 10%
- 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 April 4, 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.

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