

JOB VACANCY ANNOUNCEMENT

VAC-2025-55 – Innovation developer for the computational modelling of the immunocompetent tumor ecosystem

Number of places: 1

Category: Innovation Developer 3

Workplace: Campus Nord

Salary (gross): 29.322,04 €

Weekly working hours: 40

Contract type: Permanent contract linked to duration of the project

Functions to be developed:

Perform theoretical and computational modelling in the context of the project “Engineering the mechanobiology of the immunocompetent tumor ecosystem”, and collaborate with our experimental partners of the project to develop a digital twin for the microphysiological system of the tumor ecosystem. Develop and test computer code, calibrate and validate against experiments, prepare technical reports.

Required skills:

- Mathematical and computational modelling, particularly using finite element methods
- Experience in research modelling cellular tissues and their interaction with the extra-cellular matrix

Other valued skills (not mandatory):

- Modelling of cell and tissue dynamics using discrete/stochastic models
- Experience developing large finite element libraries
- C++ programming

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:** 20%
- **Professional experience:** 30%
- **Knowledge of the Catalan language:** 5%

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- Knowledge of the English language: 10%
- Selective tests and interview: 20%

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 25th July, 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.

Quota Reservation:

In line with our commitment to inclusion, we reserve a percentage of our workforce for people with disabilities. We especially encourage these individuals to apply.

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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