

### CALL REQUIREMENTS

Call Title: Postdoctoral position in multiscale materials modelling

Contact person: Santiago Aparicio Martinez

Department: Chemistry

Category:  Researcher

Others

Workday:  Full time

Part time

**Aim:** The candidate will be involved in developing computational studies using multiscale approaches for the design and characterization of complex nanomaterials.

#### **Requirements of the candidate:**

Required education level: PhD in Chemistry, Physics, Chemical Engineering, Materials Engineering or related disciplines

#### **Specific requirements**

- Knowledge of at least two of these first-principles methods and their software: plane-wave based software (VASP, QEspresso or related), molecular DFT software (Gaussian, ORCA or related), classical molecular dynamics simulations and software (LAMMPS, GROMACS or related), and meso- and macroscale simulation methods and software. Knowledge of linux/unix is a requirement. Additional knowledge in programming languages such as python or numerical programming in MATLAB, as well as in Artificial Intelligence and predictive modelling of materials will be an asset.

- Experience in participating in European projects is an asset.

- An adequate number of publications in the field of materials modelling in Q1 journals.

- Strong communication skills (both written and oral) in English and Spanish.

- Ability to work independently with little supervision.

**Duration:** 3 years

**Gross monthly remuneration:** 2.503€

**Application submission deadline:** January 10, 2024

#### **Documents to be provided:**

- Application form (Annex I)
- Photocopy of National Identity Card, or its equivalent in the case of European Union citizens. Citizens of other countries must submit a photocopy of their NIE or passport.
- Curriculum Vitae, presented with the structure of sections included in the assessment criteria of this call for applications, highlighting the required professional experience.
- Copy of the required university degree or degrees.
- Academic certificate of the required degrees.
- Any other documentation that justifies the merits to be evaluated.