

POST-DOCTORAL RESEARCH POSITION IN THE QUANTUM THEORY OF MATERIALS GROUP

Materials Physics Center (Donostia / San Sebastián)

The **Quantum Theory of Materials Group** at CFM is offering a postdoctoral (1+1 years) position starting ideally in January 2022 to work with Prof. Ion Errea, in the theoretical development and maintenance of the Stochastic-Self Consistent Harmonic Approximation (SSCHA) code.

The positions will be funded by the IKUR strategy. IKUR is the strategy promoted by the Education Department of the Basque Government to boost Scientific Research in specific strategic areas and to position the Basque Country at the forefront of international research in those fields.

The selected candidate will be hired by the Research Association MPC - Materials Physics Center. The salary will be 34.780,80€ before taxes for the first year.

The Quantum Theory of Materials Group at the Center of Materials Physics. Current research topics in the group include the development of new first principles techniques for the study of materials' properties and their application to systems of interest such as hydrogen-based superconductors, CDW materials, thermoelectrics, and so on. The SSCHA code, which allows to calculate thermodynamic and vibrational properties of solids including ionic quantum effects and anharmonicity, is developed and maintained in the group. For more information about the SSCHA method visits the website <http://sscha.eu/>

Candidates must hold a PhD degree in Physics/Chemistry/Electrical Engineering or similar, preferably in the field of first-principles calculations. Expertise in ab initio code development will be highly appreciated for this particular position, as well as a strong background with Fortran and Python programming languages.

Suitable candidates can apply for this position sending by email to jobs.cfm@ehu.eus the following information **before 20th of November 2021** with the subject label "**Postdoc CFM - SSCHA**":

- 1- An updated Curriculum Vitae, including a list of publications. (60%)
- 2- A presentation letter with declaration of interests (max. 1 page). (20%)
- 3- Two reference letters and/or contact email of two potential referees. (20%)

General enquiries or questions about this position should be submitted by email to: jobs.cfm@ehu.eus with the subject label "Postdoc CFM - SSCHA" where "Postdoc CFM – SSCHA" refers to the Job Offer Reference code you are interested in (thus, separate emails are required to apply for different job offers).