

**POST-DOCTORAL RESEARCH POSITION  
THEORY OF NANOPHOTONICS GROUP  
Materials Physics Center (Donostia / San Sebastián)**

The Group of Theory of Nanophotonics in San Sebastian is offering a postdoctoral position (2 years) starting in the end of 2020 or early 2021 to work with Dr. Rubén Esteban and Prof. Javier Aizpurua, in the field of "**Quantum Nanophotonics**", with special emphasis on the research of "Molecular Spectroscopy" in close contact with several international experimental groups. In particular, the candidate will work in the quantum description of the **optical coupling between molecular excitations and nanocavity photons** to unveil new effects in optical and infrared molecular spectroscopy, with a very general and open scope.

The "*Theory of Nanophotonics Group*" at the Center of Materials Physics addresses the optical response of nanoscale systems. Current research topics in the group include theoretical modeling of light-matter interactions for applications in plasmonic devices, quantum plasmonics, atomic-scale optoelectronics, and field-enhanced spectroscopy and microscopy.

For more information visit our web: <http://cfm.ehu.es/nanophotonics/>

Candidates must hold an internationally-recognized PhD degree in Physics, Material Science or Electrical Engineering, preferably in the field of Nanophotonics. Expertise in quantum chemistry, quantum nanooptics, or quantum optomechanics is particularly appreciated.

Suitable candidates are requested to submit:

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

Applications or general enquiries should be submitted by email to:

[ruben\\_esteban@ehu.eus](mailto:ruben_esteban@ehu.eus) with the subject label "Postdoc Theory of Nanophotonics". The position is currently opened until a suitable candidate is found.

More info on recent related work in the group:

- Nature Nanotechnology **15**, 207–211 (2020)
- Phys. Rev. A **100**, 043422 (2019)
- Nature Materials, **18**, 668–678 (2019)
- Optica, **5**, 1247-1255 (2018)
- Nano Lett., **18**, 2358-2364 (2018)
- Science **354**, 726-729 (2016)
- ACS Nano **10**, 6291-6298 (2016)

