CALL FOR APPLICATIONS - July 2022

Distinguished Researcher Position

Donostia International Physics Center (DIPC) is currently accepting applications for Distinguished Researcher positions. A description of each of the available openings, contact information and deadlines can be found on the following pages.

Although candidates are welcome to contact the project supervisors to know further details about the proposed research activity, please be aware that the application will be evaluated only if it is submitted directly to the email address listed as “application email”.

Applications received by the deadline will be evaluated by a Committee designed by the DIPC board on the basis of the following criteria:

- CV of the candidate (45%)
- Adequacy of the candidate’s scientific background to the project (45%)
- Other: Diversity in gender, race, nationality, etc. (10%)

Evaluation results will be communicated to the candidates soon after. Positions will only be filled if qualified candidates are found.

The DIPC may revoke its decision if the candidate fails to join by the appointed time, in which case the position will be awarded to the candidate with the next highest score, provided it is above 50 (out of 100).

However, the selected candidate may keep the position if, in the opinion of the Selection Committee, the candidate duly justifies the reasons why he or she cannot join before the specified deadline, and as long as the project allows it.

Ref. 2022/44
Development of novel plasmonic metamaterials with enhanced functionality

Supervisor(s):
Vyacheslav Silkin (waxslavas@ehu.es)

Duration*: *1 year*

Application Deadline: *21/07/2022* ***Application Email:*** *jobs.research@dipc.org*

We are seeking a senior researcher with experience in the field of computational materials science to work on designing plasmonic metamaterials with superior dielectric and optical properties, which could be used in numerous applications. The successful candidate should be an expert in the field of optics and solid state physics; she/he should be required to have experience in analytical modelling and numerical techniques, such as finite-difference-time-domain or finite-element-method, as well as rigorous coupled wave analysis. The ability to develop software would be of benefit.

The candidate will be involved in one or both of the following projects:

1. Modelling the dielectric and/or magnetic response of multiphase subwavelength metallodielectric or semiconductor superlattices taking into account possible nonlocal effects.

2. The design of metamaterials with on-demand optical properties, in particular, epsilon-near-zero, low- and negative-refractive-index metamaterials with emphasis on the bandwidth.

Interested candidates should submit an updated CV and a brief statement of interest to the application email listed above. Reference letters are welcome but not indispensable. The reference of the specific opening to which the candidate is applying should also be stated in the subject line.