

## DIPC POSTDOC POSITION

The Donostia International Physics Center DIPC is currently accepting applications for two postdoctoral positions in the field of Cosmology. This is a unique opportunity for highly motivated researchers to develop a research career joining one of the DIPC high-profile research teams.

Financial support will be provided through an employment contract with the DIPC for a period of 1 year (renewable up to a maximum of 3 years), associated with the European grant Stg-ERC-716151-BACCO

Interested candidates please send an updated CV, a brief statement of interest, and contact information to [postdoc@dipc.org](mailto:postdoc@dipc.org). Reference letters are welcome but not indispensable. The particular postdoc position(s) to which the candidate is applying should be stated as well.

**Applicants are required to hold a PhD degree in physics, chemistry or material science.**

Next review of applications is scheduled for July 20<sup>th</sup> 2018. Applications will be evaluated by a Committee designed by the DIPC board on the basis of the following criteria (with point weights indicated in parentheses):

- CV of the candidate (50%)
- Adequacy of the candidate's scientific background to the project (30%)
- Statement of interest and reference letters (10%)
- Others: 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.

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The DIPC could revoke its decision in case the candidate breaches the condition of joining before the deadline indicated in this call, proceeding in that case to grant the position to the next candidate based on the classification order, and provided that he has obtained a score higher than 50 (out of 100) in the evaluation of his candidature.

However, the selected candidate may keep the position if, in the opinion of the Evaluation Committee, he duly justifies the reasons why he can't join before the specified deadline, and as long as the project allows it.

## **- Theory and Observation of Galaxy Formation**

Contact person: Raul Angulo ([reangulo@dipc.org](mailto:reangulo@dipc.org)). Reference: 2018/25-26.

We seek for two postdoctoral researchers in the field of galaxy formation to investigate the physics of star formation and feedback in hydro-dynamical numerical simulations as well as in extra-galactic observations.

In particular, the successful candidates will focus on developing new theoretical models for the birth and growth of super-massive black holes at the center of galaxies. These models will be used to study the impact on the global properties of their host halo and the spatial distribution of the underlying dark matter field. The resulting predictions will then be contrasted with existing and upcoming observations from large galaxy surveys. In a later stage, the developed models will be used to investigate the impact of galaxy formation physics in a variety of cosmological probes of fundamental physics.