



CALL FOR APPLICATIONS - July 2022

PhD Position

Donostia International Physics Center (DIPC) is currently accepting applications for PhD positions. This is a unique opportunity for highly motivated students, recently graduated from the university in Physics or related fields, to join one of DIPC's high-profile research teams. A description of each of the available openings, contact information and deadlines can be found on the following pages.

Openings with a duration of more than one year are for a 1-year contract, renewable based on performance and availability of funding.

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 (40%)
- Adequacy of the candidate's scientific background to the project (40%)
- Reference letters (10%)
- 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. 2022/46
Synthesis of cyclic polymers for biomedical applications

Supervisor(s):
Fabienne Barroso (f.barroso@ehu.eus)

Duration*: 3 years

Application Deadline: 21/07/2022

Application Email: jobs.research@dipc.org

Cyclic polymers possess unique physico-chemical properties compared to their linear counterparts as a result of the absence of end-groups. In the past 60 years, examples of cyclic biomacromolecules have been found in nature, being circular DNA the first cyclic polymer to be studied in detail. The impact of these findings combined with the development of new synthetic tools has provided an increased motivation to further explore the synthesis, physical characterization and potential applications of cyclic polymers.

The student will explore new approaches to synthesise cyclic polymers and related materials including crosslinked polymer networks and those incorporating bio-active molecules. The student will learn state-of-the art techniques for characterising the chemical structure and the physical properties of as-obtained polymer materials.

Motivated candidates with a background in polymer chemistry and synthetic organic chemistry are very welcome. This project offers excellent opportunities to work with national and international collaborators in a multi-disciplinary environment.

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.