

## CALL FOR APPLICATIONS - October 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 (60%)
- Adequacy of the candidate's background to the project (20%)
- 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. 2022/63**

**Characterising Amyloids aggregates with X-rays and optical methods**

**Supervisor(s):**

*Carlos Sanchez Cano (carlos.sanchez@dipc.org)*

*Giuseppe Chirico (giuseppe.chirico@unimib.it)*

**Duration\*:** 1 year

**Application Deadline:** 21/10/2022

**Application Email:** jobs.research@dipc.org

We are looking for a highly motivated student recently graduated in Physics, Chemistry, or related fields interested in performing a PhD as part of a collaborative project between the Donostia International Physics Center (DIPC) and the Università degli studi di Milano-Bicocca (MiB).

The PhD candidate will work under the supervision of Dr. Carlos Sanchez-Cano (DIPC) and Prof. Giuseppe Chirico (MiB) to optimise multimodal correlative approaches combining X-ray and/or optical techniques to probe the metal components, micro- or nano-structure and organisation of A $\beta$  amyloid aggregates. This will be ultimately aimed at developing viable methods to monitor the activity of anti-A $\beta$  systems using neuronal models of different complexity.

Previous experience in X-ray imaging or spectroscopy, X-ray or neutron scattering and/or non-linear optical microscopy are particularly welcome, but not essential. Please contact Dr. Carlos Sanchez-Cano (carlos.sanchez@dipc.org) for more information.

**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.**

*This project will be run under the DIPC – University of Milano Bicocca institutional cooperation.*