



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. 2022/45
Bioorthogonal catalysis for the disruption of amyloid-beta aggregates

Supervisor(s):

Luca Salassa (lsalassa@dipc.org)
Francesca Re (francesca.re1@unimib.it)

Duration*: 3 years

Application Deadline: 21/07/2022

Application Email: jobs.research@dipc.org

This call is open to recruit a motivated young researcher interested in carrying out a PhD research project in the fields of neuroscience, bioinorganic chemistry, chemical biology and catalysis at the Donostia International Physics Center (DIPC) and at the University of Milano Bicocca (MiB) under the supervision of Prof. Luca Salassa (DIPC) and Prof. Francesca Re (MiB, School of Medicine and Surgery).

The student will register to appropriate PhD programs of the University of the Basque Country and the University of Milano Bicocca.

The successful applicant will be working at the forefront and converging point of several modern topics in neuroscience and bioinorganic chemistry, focusing on the design of bioorthogonal catalysts for the selective targeting of amyloid-beta protein aggregates. This project will lead into exciting new tools that can be applied in the fields of neuroscience and medicine.

The successful applicant will have:

- MSc in the field of chemistry;
- Experience in the synthesis, purification, and characterization of organic and coordination compounds (including NMR, MS, optical spectroscopy).
- Experience in catalysis;
- Experience in photophysics and photochemistry of organic and/or inorganic compounds;

Desirable skills will also be:

- Experience hydrogels and biocompatible polymers;
- Good written and spoken English;

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

Interested candidates should submit an updated CV 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. The reference of the specific opening to which the candidate is applying should also be stated in the subject line.