

## PhD Positions in cell-free biocatalysis

### CIC biomaGUNE, San Sebastian, Spain

Two PhD positions are available in the framework of the ERC-consolidator project METACELL GA n° 818089 focused on the assembly of multi-enzyme systems on porous materials to perform biosynthetic pathways

The tasks of the PhD projects involve:

1. The engineering of the enzymes surface to control their immobilization on porous materials
2. The chemical functionalization of porous materials
3. Functional and structural characterization of immobilized multi-enzyme systems

The PhD candidates are expected to work in multi-disciplinar experimental plan that will train her/him in protein engineering, material chemistry, fluorescence spectroscopy and microscopy, organic chemistry and process engineering.

The projects will be carried out at the heterogeneous biocatalysis laboratory of **CIC biomaGUNE** under the supervision of Dr. Fernando López Gallego. CIC biomaGUNE is a vibrant multidisciplinary and international research institute located at San Sebastian, Spain.

#### **Required qualifications and experience.**

Candidates should have a Master degree in Biochemistry or Molecular Biology, Biotechnology, organic chemistry, material chemistry or a related discipline.

We are looking for candidates with experience in some of these topics: **protein engineering, protein immobilization, biocatalysis, enzymology, and biophysics**. The candidates are expected to have interest in multidisciplinary work, motivation to learn from a diversity of scientific areas and the capacity to work in an international environment. Good interpersonal skills as well as written and oral communication skills in English are required.

#### **Conditions.**

The successful candidates will be hired by CIC biomaGUNE for a 3-year PhD program. Starting date at January 1<sup>st</sup>, 2020.

**Application deadline: 30<sup>th</sup> November, 2019**

**How to apply:** Candidates should submit a motivation letter, CV and the contact information of two referees using the following [form](#) and indicating as Job Offer Code “304-PhD METACELL” as job offer reference.. In addition, candidates may send informal requests to [flopez@icbiomagune.es](mailto:flopez@icbiomagune.es)