

## Pre-doctoral Position Computational Chemistry, Bilbao



The Computational Chemistry Group led by [Dr. Gonzalo Jiménez-Osés](#) at CIC bioGUNE in Bilbao, Spain, seeks a highly skilled and motivated Ph.D. candidate to develop multidisciplinary and highly collaborative projects in the interphase between Chemistry, Biology and Computation. Such projects are devoted to the accurate simulation of chemical and biochemical phenomena, from small-molecule reactions and metal-catalyzed processes to protein folding, dynamics and function with strong validation and feedback from experiments.

The Computational Chemistry Group (CCG) aims to create a solid platform for the theoretical prediction of chemical reactions for Biorthogonal Chemistry, design and simulation of therapeutic peptides and proteins, and understanding Glycochemistry processes. A strong emphasis is made on the Computer-Aided Enzyme Design and Directed Evolution. The CCG tightly collaborates with leading national and international experimental labs with a particular interest in site-selective protein modification, whole-cell catalysis and laboratory evolution of enzymes for unnatural reactions.

### Requirements of the ideal candidate:

- Master's degree in chemistry, biochemistry, computer science, physics or a related discipline.
- Strong hands-on skills on quantum mechanics and molecular dynamics.
- Knowledge in chemistry and biochemistry basics, computer programming and mathematical modeling is strongly desired.

### Applications should contain the following documents:

- An abbreviated curriculum vitae (four pages maximum) describing computational and experimental training.
- A brief letter (one page maximum) declaring the reference number and describing the motivations for conducting PhD studies and joining the group.
- Two signed reference letters explicitly detailing the candidate's skills and development and their professional experience with the candidate.

Interested candidates should apply using the [form](#) and indicating [44671](#) as reference.