

## [HYBRID] Introduction to Simulation Environments for Life Sciences

### Objectives

The course will make the attendants familiar with simulation technologies used in Life Sciences and their specific adaptation to HPC environment

#### **Detailed outline:**

Introduction to biomolecular simulation  
Coarse-grained and atomistic simulation strategies  
Automated setup for simulation

**HPC specifics:** Large scale parallelization, use of GPU's  
Storage and strategies for large scale trajectory analysis

### Requirements

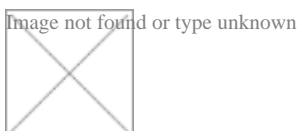
**Prerequisites:** Basic knowledge of structural bioinformatics Basic knowledge of parallelization strategies. Material will be provided during the course, students are welcome to provide their own use cases.

Please download and carefully read the following [instructions](#) regarding the logistics participants enrolling online PATC at BSC are expected to follow.

### Learning Outcomes

Setup, execute, and analyze standard simulations in HPC environment

#### Academic Staff



**Course Convener:** Josep Gelpi, BSC Life Sciences - INB Computational Node 2 Group Manager

## Materials

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## Further information

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### **PLEASE BRING YOUR OWN LAPTOP.**

**NOTE:** PATC courses do not charge fees

**Recommended Accomodation:** Please follow [the link](#) for map of some local hotels.

**CONTACT US** for further details about MSc, PhD, Post Doc studies, exchanges and collaboration in education and training with BSC.

For further details about Postgraduate Studies in UPC - Barcelona School of Informatics (FiB), visit the [website](#).

**Sponsors:** BSC

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**Source URL (retrieved on 6 Oct 2024 - 10:54):** <https://www.bsc.es/es/education/training/other-training/hybrid-introduction-simulation-environments-life-sciences>