

## **PATC Course: 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

**Learning Outcomes:** Setup, execute, and analyze standard simulations in HPC environment

### **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.

## **Registration for this course is available here**

**All PATC Courses at BSC do not charge fees.**

**PLEASE BRING YOUR OWN LAPTOP.**

### **Comments:**

Please fill in the **evaluation form** by following [the link](#).

## Recommended Accommodation:

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

## Contact Us:

[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 and PRACE 3IP project are funding the PATC @ BSC training events.

If you want to learn more about PRACE Project, visit the [website](#).

## [Materials](#)

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