PATC: Short course on HPC-based Computational Bio-Medicine

Objectives

The objetive of this course is to give a panorama on the use of hpc-based computational mechanics in Engineering and Environment through the projects BSC are carrying on. This panorama includes the basics of what is behind the main tools: computational mechanics and parallelization. The training is delivered in collaboration with the center of excellence CompBioMed.

Please bring your own laptop for the practical sessions.

A number of fixed amount travel grants will be offered to a selected number of participants for covering part of their travelling expenses.

GRANTS:
There will be four travel grants available for students who want to attend the CompBiomed PATC course. Applicants should send a resume and a 1 page letter explaining their background, experience and motivation to attend to the course to alfonso [dot] santiago [at] bsc [dot] es. Deadline 31st of January.

Requirements

Level: All courses are designed for specialists with at least 1st cycle degree or similar background experience

Learning Outcomes

The course gives a wide perspective and the latest trends of how HPC helps in industrial, clinical and research applications allowing to achieve more realistic multiphysics simulations. In addition, the student has the opportunity of running Jobs in Marenostrum supercomputer.
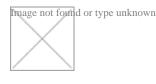
[Academic Staff](#)

Course Convener: Mariano Vazquez

Lecturers: Mariano Vázquez (BSC), Okba Hamitou (Atos), Ricard Borrell (BSC), Diana Fernandez Velez (BSC), Carlos Teijeiro Barjas (SURFsara), Ben Czaja (UvA), Paul Melis (SURFsara), Cristobal Samaniego (BSC), David Oks (BSC), Alfonso Santiago(BSC), Alexander Heifetz (EVOTEC), Andrea Townsend-Nicholson (UCL)

[Materials](#)

[Further information](#)

Sponsors:

BSC and PRACE 5IP project are funding the PATC @ BSC training events.
If you want to learn more about PRACE Project, visit the [website.](#)

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](#)

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Recommended Accomodation:

Please follow the link for map of some local hotels.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación