

## Course: HPC-based simulations, Engineering and Environment

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

Registration for this course opens on 1st of October 2013.

**PLEASE BRING YOUR OWN LAPTOP.**

**Objectives:** The objective of this course is to show some computational tools able to model complex engineering problems. Specifically, three tools developed by BSC will be showed in parallel sessions:

**ALYA:** to simulate complex multiphysic engineering problems.

**FALL3D:** to simulate volcanic dust dispersion.

**PANDORA:** to develop Agent Based Models using HPC platforms.

**Learning Outcomes:** The students who finish this course will be able to use these computational tools in real engineering problems

**Recommended Accomodation:**

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:**

The PATC Courses at BSC are funded by BSC and PRACE 3IP project.

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

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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