

## **iPATC: HPC-based simulations for the Industrial Realm**

### **Requirements**

**PLEASE BRING YOUR OWN LAPTOP.**

Registration for this course is closed. Please view the [PATC program at BSC](#) for other suitable courses.

#### **Outline:**

The course is organized as a series of talks describing several industrial projects we are carrying on at the CASE department of BSC. All these projects has a common point: very complex simulations of physical systems lie at the core, requiring HPC-based software. The CASE department develops Alya, a multi-physics parallel simulation code capable of running on thousands of processors. Among the application fields are:

- Oil and Energy,
- Environment,
- Aerospace and
- Pharmaceutical Industry.

#### **Lecturers:**

Mariano Vázquez (High Performance Computational Mechanics Group Manager)

Guillaume Houzeaux (Physical And Numerical Modelling Group Manager)

Herbert Owen (CASE Senior Researcher)

Fernando Cucchietti (CASE Senior Researcher)

Josep de la Puente (CASE Senior Researcher)

Mauricio Hanzich (CASE Senior Researcher)

**For further details on CASE research, [please visit our webpages.](#)**

#### **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 training courses at BSC are funded by BSC and PRACE 3IP projec

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

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