PRACE ADVANCED TRAINING CENTRES (PATCs)

JOINT CURRICULUM

- Barcelona Supercomputing Center (BSC), Spain
- CINECA – Consorzio Interuniversitario, Italy
- CSC – IT Center for Science Ltd, Finland
- EPCC at the University of Edinburgh, UK
- Gauss Centre for Supercomputing (GCS), Germany
- Maison de la Simulation (MdS), France

SYLLABUS FOR AUGUST-DECEMBER 2013

August
- GPU programming with CUDA and OpenACC (EPCC)
- Parallel systems: getting the benefits (EPCC)

September
- Data staging and data movement with EUDAT (CSC)
- Fortran 95/2003 (CSC)
- Parallel CFD packages (EPCC)
- Advanced parallel programming (GCS@HLRS)
- Advanced Fortran topics (GCS@LRZ)
- HPC simulation in CFD with Trio_U (MdS@CEA)
- Visualization (MdS)

October
- Parallel programming workshop (BSC)
- Advanced Fortran topics & Coarray Fortran (CSC)
- Introduction to parallel programming (CSC)
- PGAS programming with UPC and Fortran Coarrays (EPCC)
- Cray XE6/XC30 optimization workshop (GCS@HLRS)
- VI-HPS tuning workshop (GCS@JSC)
- Multi-core application programming (MdS)

November
- Advanced parallel programming (CSC)
- Software development tools (MdS@Inria)

December
- Introduction to simulation environment for Earth Sciences (BSC)
- Introduction to programming the Xeon Phi (CSC)
- Parallel workflows for computational science and engineering (CSC/PDC)
- Software carpentry (EPCC)
- Node-level performance engineering (GSC@LRZ)
- GPU programming (MdS)

Find more information about PRACE training activities at www.training.prace-ri.eu