

# International Summer School on Grid Computing Announced

The next International Summer School in Grid Computing will take place from the 9th to the 21st of July 2006. The school will be held once again in Italy, this year in the Jolly Hotel Delle Terme, on the beautiful Island of Ischia in the Bay of Naples. Students from all over the world are invited to apply for the well established school, now in its fourth year.

“The most intensive and best integrated tutorial summer school I have attended. Keep it going! Thanks for the great effort you have put into the school.” Previous Summer School student

The School will provide an in-depth introduction to Grid technologies that underpin e-infrastructure and Cyberinfrastructure. It will present a conceptual framework to enhance each student’s ability to work in this rapidly advancing field. Reports from world leaders in deploying and exploiting Grids will complement lectures from research leaders shaping future e-Infrastructure. Hands-on laboratory exercises will give participants experience with widely used Grid middleware. The work will be challenging, but rewarding. Graduates of the School will be familiar with the fundamental components of Grid environments, such as authentication, authorization, resource discovery, and resource access; be able to use Grid environments for basic and advanced job submission, and distributed data management; be conversant with Grid achievements worldwide; be alert to emerging Grid applications; appreciate the potential of e-Infrastructure and be aware of new research opportunities.”

Grid Computing is an important new approach to distributed computing. Its combination of regular structures and dynamic algorithms will deliver large and sustained data intensive, knowledge intensive and computational resources across heterogeneous contributing sites. It is enabling rapid advances in many disciplines. The School offers a rare opportunity to hear about the latest achievements from Europe, North America and Asia, and to experience a variety of Grid systems.

The School will include lectures on the principles, technologies, experience and exploitation of Grids. Lectures will also review the research horizon and report recent significant successes. Lectures will be given in the mornings. In the afternoons the practical exercises will take place on the equipment installed at the School site in [Ischia](#), Italy (near Naples). A social programme of activities, including a boat trip around the Island of Ischia, will help the students to form lasting friendships.

To support the hands-on laboratory sessions, a testbed will be established that will host widely used middleware produced by projects in the USA, Europe and Asia. The testbed will be connected to major international Grids and provide a rich environment for hands-on learning and experimentation. Exercises and team work will encourage students to learn by using this testbed.

Applications are invited from enthusiastic and ambitious researchers who have recently started (or are about to start) working on Grid projects. Students may come from any country. They may be planning to pioneer or enable new forms of e-Infrastructure, to engage in fundamental distributed

systems research or to develop new methods in any discipline that depends on the emerging capabilities of e-Infrastructure.

Malcolm Atkinson, Programme Chair of the School said "The Summer School is always a ferment of enthusiasm. Its goal is to build a lasting network of well-informed graduates who will go on to great achievements."

In all previous years the School has been oversubscribed. Selection for the 2006 School is therefore competitive based on the information supplied on the application form and by an applicant's referee. We expect to accept between 60 and 70 students. We will be looking for students with commitment and enthusiasm for Grid research and development. We will expect competence and experience in some aspects of software development, distributed systems, computational systems, data systems and Grid applications. Most students will establish their credentials from academic qualifications, but some will base this on experience. We also welcome as participants educators who are planning to teach Grid computing. The Summer School will be conducted in English, so participants are expected to be comfortable using spoken English.

We expect participants from computer science, computational science and any application discipline. The School will assume that students have diverse backgrounds and build on that diversity

The School is being prepared by the EGEE project and will be part of the ICEAGE Project. Support has been pledged by EGEE Project, ICEAGE project, GGF, FIRB *Grid.it* Project, SPACI consortium, Institute for High Performance Computing and Networking (ICAR-CNR) and the Italian National Institute for Nuclear Physics (INFN).

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The deadline for applications is 1 May 2006

Thursday 2 February 2006