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The Abdus Salam
International Centre
for Theoretical Physics



MHPC

Master in High Performance Computing

MHPC in pills

The Master in High Performance Computing (MHPC) is an innovative degree program that prepares students for exciting careers in the fast-growing field of HPC.

Industry and academia throughout the world are suffering from a severe shortage of skilled personnel able to bridge the gap between the dynamic environments in IT and research/science. The MHPC aims to create a group of experts who have the hands-on training and skills needed to fill this gap, by providing students with a solid background in scientific computing approaches, algorithms, and modeling. MHPC degree provides the access to instant career opportunities on an international scale.

The program features a strict connection with industry, both local and worldwide. The MHPC aims to fulfill the demand for professional experience in a production environment. HPC vendors, IDVs and local companies are involved in the financing of fellowships and in providing industry-based HPC problems for final thesis. Some of the Master's lectures come from the industrial world to teach the latest applications of HPC technologies.

MHPC plan to have between 10 to 15 students: applications will be reviewed by the MHPC selection committee. Students who successfully complete the program will be able to address problems requiring advanced computational techniques in multiple domains, and communicate HPC technological issues in all scientific and industrial environments.

Academy-Industry Sinergy

In this context, the MHPC program welcomes contact from industries, organizations and institutions involved in HPC and is happy to discuss any idea which could facilitate the recruitment of bright students and the setup of a highly innovative and state-of-the-art training environment. This is also an excellent opportunity for students to get in touch with companies involved in HPC sectors and to explore potential career paths.

The strong connection with industry and highly reputed academic environment provide to an MHPC graduated a unique chances to find the right place in the high technology market or academic scene.

Many benefits for corporates come from a sponsorship: tax advantages, visibility on the course website, building a privileged channel of interaction with students.

Student Sponsorship Program

Your organization could select and sponsor a qualified MHPC student to perform a master thesis on a joint research project during the last part of the master (8-month period: March-October). The research project is defined by the sponsor organization jointly with the MHPC evaluation committee. You can fund a scholarship totally or partially. A fully-funded scholarship is named and advertised under your organization's name. The close relationship between organization and student may form the basis for a continued collaboration after the student's completion of the MHPC program.

Other ways to sponsor and become a partner of the MHPC sponsor:

In-kind Contribution: You can also directly sponsor the MHPC with an in-kind contribution. Examples of such in-kind contributions include:

- The donation or lending of HPC products to allow MHPC students to learn/test/evaluate such products;
- The donation or lending of software tools to allow MHPC students access to learn/test/evaluate such products;
- Technical experts to deliver advanced seminars or short courses within the MHPC's official program.

Financial support: You can also directly sponsor the MHPC program by means of a financial donation.



For more details, please contact
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