MHPC

MHPC is a high-level degree program (Level 7 EU Qualifications Framework).

MHPC is set in the stimulating research environment of its co-organizing institutions, SISSA and ICTP, in the city of Trieste (Italy).

MHPC is intended for people who have a strong interest in Information Technology and want to develop their careers through new technology.

The program combines lectures with hands-on and applied projects to prepare future HPC specialists who will have a solid background in scientific computing approaches, algorithms, and modeling.

Students who complete the course will be able to address problems requiring advanced computational techniques both in scientific and industrial fields.
SISSA and ICTP

SISSA, the International School for Advanced Studies, is a scientific center of excellence within the national and international academic scene. It was founded by Paolo Budinich in 1978. Mathematics is one of its three main research areas, along with physics and neuroscience.

ICTP, the International Centre for Theoretical Physics, was founded in 1964 by the late Nobel Laureate Abdus Salam. It is the first global fundamental research institute with a focus on developing countries, supporting studies and education in theoretical and applied physics and mathematics.

FELLOWSHIPS

HPC vendors, IDVs and local companies are involved in the financing of fellowships and in providing industry-based HPC problems for final thesis.

An HPC graduate has unique chances to find the right job in the high technology market or academic scene.

COURSES

Master students will benefit from state-of-the-art, large-scale HPC infrastructures installed at SISSA/ICTP campus. The courses are delivered by an international faculty of renowned experts in HPC, both from academia and companies, such as Intel and NVIDIA. It lasts 12 months and is founded on three pillars:

- Advanced and parallel programming, software engineering, numerical analysis, data analytics, computing hardware, and cluster administration.
- Fundamental algorithms and strategies common to many scientific HPC applications.
- Student-developed, practical HPC projects created in close cooperation with leading scientific groups and in a stimulating industrial environment.

HOW TO APPLY

Prospective students should have a master degree and some IT experience. You can find the application form here: http://www.mhpc.it/how-apply.

More info: info@mhpc.it