HPC Education and Training

Develop your career

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

EXCELENCIA SEVERO OCHOA

PRACE

nVIDIA

www.bsc.es/education
Email: education@bsc.es

Generalitat de Catalunya
Departament d'Economia i Coneixement

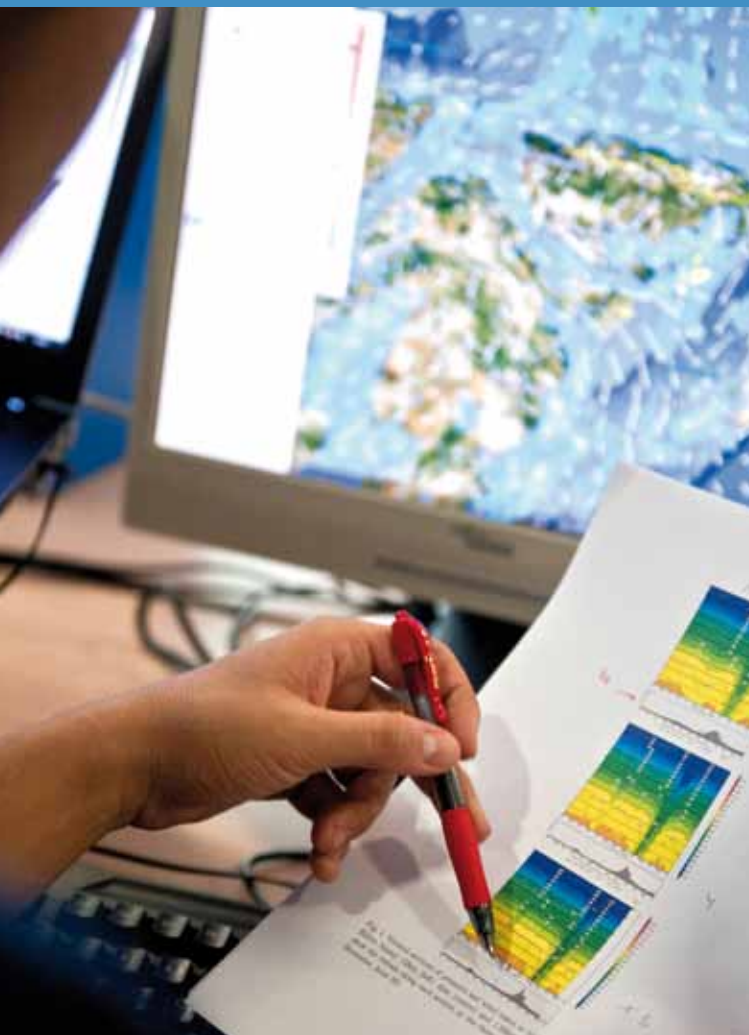**UNIVERSITAT POLITÈCNICA DE CATALUNYA**
BARCELONA**TECH**
UPC

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

BSC-CNS is a prestigious research centre and a leader at national and European level in various scientific fields.

BSC-CNS is offering the opportunity to join a young, international team.

We offer the chance to grow your professional career through various education and training programs:

- Master's Degree in High Performance Computing

- PhDs

- Specialized training courses organized by the PRACE Advanced Training Center and CUDA Center of Excellence

- Master and bachelor final project placements

BSC-CNS offers various scholarships that can help you finance your studies at our center.

Master's Degree in High Performance Computing

The Master's Degree in High Performance Computing (HPC) is a two-year postgraduate master's course taught by BSC-CNS experts at the **Facultat d'Informàtica de Barcelona - Universitat Politècnica de Catalunya · BarcelonaTech (UPC).** The Barcelona's Global Excellence Master's Degree ranks this course as an international reference.

The UPC is a public institution dedicated to higher education and research, specialised in the fields of engineering, architecture and science and is recognised as an **International Campus of Excellence**.

The UPC and BSC-CNS offer a rigorous two-year, full-time master's program that prepares students for doctoral study and provides robust training for top jobs in the HPC-related professions. Scholarships are available.

The Master's Degree in High Performance Computing is adressed to holders of a Bachelor in Informatics or related fields such as Engineering (Electrical, Industrial, Telecommunications, etc.) or Science (Mathematics, Physics,etc.) issued by a higher education institution.

BSC-CNS Scholarships

Barcelona Supercomputing Center – Centro Nacional de Supercomputación (BSC-CNS) is a holder of the Severo Ochoa Excellence Award, it is a PRACE Advanced Training Centre in HPC, as well as being the leading center in the Spanish Supercomputing Network (RES).

BSC-CNS is offering **scholarship** grants for MSc students on the MIRI MSc Program in FIB, UPC for the HPC specialization. The duration of each scholarship is for the 2 academic years of the program.

Successful candidates will have the opportunity to join research groups with top-level scientists and will carry out their MSc thesis research in cutting-edge areas of Supercomputing, HPC or the application areas of Life Sciences, Earth Sciences and Computer Applications in Science and Engineering.

Available Scholarships:

• Scholarship contributing to fees: 3200 euros / per annum each

• Scholarship contributing to fees / accommodation: 6000 euros/per annum

• Scholarship for international (non EU) student: 12000 euros / per annum

PRACE Advanced Training Centre courses at BSC-CNS

PRACE, the Partnership for Advanced Computing in Europe has established advanced training centres at six of its members' sites:

• Barcelona Supercomputing Center – Centro Nacional de Supercomputación (Spain)

• CINECA – Consorzio Interuniversitario (Italy)

• CSC – IT Center for Science Ltd (Finland)

• EPCC at the University of Edinburgh (UK)

• Gauss Centre for Supercomputing (Germany)

• Maison de la Simulation (France)

The mission of the PRACE Advanced Training Centres (PATCs) is to carry out and coordinate training and education activities that enable the European research community to utilise the computational infrastructure available through PRACE.

PATC courses are attended by specialists from across Europe and all lectures and materials are in English. The attending students can benefit from the hands-on sessions and communication with our internationally renowned instructors.

Participants will be issued a Certificate of Attendance. The PATCs **do not charge fees** for their courses. The number of places for all courses is limited.