EUMaster4HPC

EUmaster4HPC is an European consortium. It consists of European universities, research/ supercomputing centres and industrial partners, funded by the EuroHPC Joint Undertaking to design and implement the first pan-European Master's programme in High Performance Computing.

8 Awarding Universities:

- Sorbonne Université, France
- Universitat Politècnica de Catalunya, Spain
- Politecnico di Milano, Italy
- Università della Svizzera Italiana, Switzerland
- Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- University of Luxembourg, Luxembourg
- Sofia University "St. Kliment Ohridski", Bulgaria
- KTH Royal Institute of Technology, Sweden

23 Participant Countries

27 Partner universities

16 Contributing parties (industry and research)

36 Additional supporting partners

EUmaster4HPC brings together the major players in HPC education in Europe to train the next generation of highly skilled and talented HPC experts to drive the European digital transformation

EUMaster4HPC

GET IN TOUCH!
✉ eumaster4hpc@uni.lu
www.eumaster4hpc.uni.lu

EUMaster4HPC

HPC IS A FLAGSHIP OF THE EUROPEAN ECONOMY

EUMaster4HPC

European Master for High Performance Computing

an innovative pan-European master programme in High Performance Computing, Data Analytics and Artificial Intelligence

Apply now!

PROGRAM

Degree: 2 European degrees
Language: English
Duration: 2 year full-time programme /
4 semesters (120 ECTS)

1. FUNDAMENTAL courses - 12 months
2. SPECIALIZATION - 6 months
3. INTERNSHIP - 6 months

EUMASTER4HPC STUDENT'S PROFILE

HPC EXPERT WITH CUTTING EDGE KNOWLEDGE IN:

- HPC/HPDA/AI/ML
- Mathematical modelling and algorithms
- Software engineering
- Parallel programming and parallel architecture
- High performance computing applications for science and engineering

SPECIALIZATIONS:

- Application Domain Expert
- System Architect
- Performance Analyst and Advisor
- System Development and Support
- Numerical and Data Specialist for Science Domain

EUMASTER4HPC STUDENTS GRADUATE WITH:

- They own network in the global HPC community
- Highly developed soft skills

WHAT'S IN STORE FOR YOU?

1. **2 EUROPEAN DEGREES IN 2 YEARS!**
Choose from among 8 TOP European universities

2. **INTERNSHIP AT INDUSTRY, RESEARCH/SUPERCOMPUTER CENTERS.**
Industry is a key partner of the programme.

3. **SUMMER SCHOOLS AND WORKSHOPS!**
Network and practical experience!

4. **10,000 EUR "MOBILITY SCHOLARSHIPS".**
Discover Europe with EUmaster4HPC and mobility between awarding universities!

5. **0 EUR "TUITION FEES"**
for eligible students!
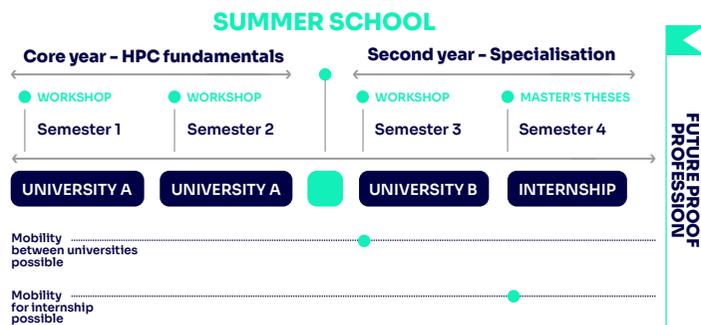
EUMaster4HPC is your access to the fastest and top-ranked supercomputers in Europe!

LUMI & Leonardo are among the WORLD's FIVE most powerful supercomputers!

Karolina, Discoverer, Vega, Meluxina are among the most powerful supercomputers in Europe!

And soon-to-come MareNostrum5

ACADEMIC JOURNEY

SUMMER SCHOOL

Core year – HPC fundamentals		Second year – Specialisation	
● WORKSHOP	● WORKSHOP	● WORKSHOP	● MASTER'S THESES
Semester 1	Semester 2	Semester 3	Semester 4
UNIVERSITY A	UNIVERSITY A	UNIVERSITY B	INTERNSHIP

FUTURE PROOF PROFESSION

Mobility between universities possible

Mobility for internship possible

OUTSTANDING CAREERS IN INDUSTRY AND RESEARCH