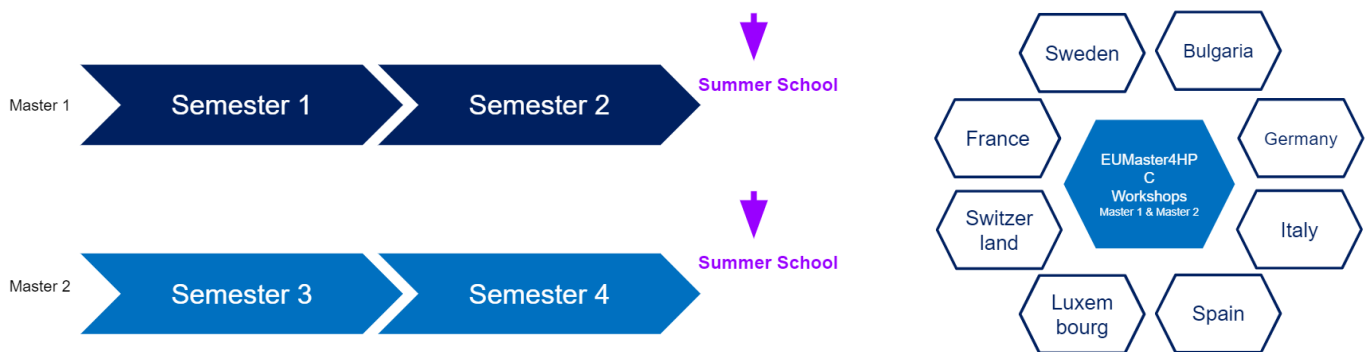# Call for proposals
Conception and organisation of the
EUMaster4HPC Summer School 2024

The European Consortium EUMaster4HPC launches a call for proposals among its members for the Conception, Organisation and Implementation of the EUMaster4HPC Summer School in July 2024.

Context

The **European Master for High Performance Computing** (EUMaster4HPC) aims to develop a new and innovative European Master programme focusing on high performance solutions. EUMaster4HPC brings together **major players in HPC education in Europe** and mobilises them to unify existing programs into a common European curriculum.

During the academic year 2023-2024, there will be two cohorts of students: a cohort in the first year of the Master's programme (Master 1) and a cohort in the second year (Master 2). These students are distributed among eight **awarding universities**: University of Luxembourg, Friedrich-Alexander-Universität, Sofia University St. Kliment Ohridski, Università della Svizzera Italiana, Politecnico di Milano, KTH Royal Institute of Technology, Universitat Politècnica de Catalunya and Sorbonne Université.

The Summer School must be designed to be attended by students from both cohorts.
For EUMaster4HPC first cohort students the summer school is an obligation, organised between the second and third semesters of the master program.
For the EUMaster4HPC students of second cohort the summer school is optional.

The summer schools will be a major milestone of the training as it is an important opportunity for networking and establishing contacts among EUMaster4HPC students from different awarding universities, other selected students from related Master programmes of the partner universities, professors and stakeholders from supercomputing centres and companies.

This event aims to:
- create a dynamic environment to enhance group cohesion;
- give students the keys to dive into their speciality topic for the third semester;
- allow students to get connected with companies and supercomputing centres;
- allow companies to exchange with students and create links for internships and/or future recruitments.

Specifications and requirements for organising institutions

- Provide two weeks of intensive and high level lectures, project work and collaboration, company cases on a specific chosen HPC thematic.
- The programme will allow students to discover the career opportunities of future leaders in HPC technologies and applications and to enhance their knowledge on a specific HPC thematic with a clear overview of industry and research.
- The programme should include technical lectures; teamwork and mentoring/project work; non-lecturing activities; team building sessions and social events…
- During the Summer School, a presentation of the upcoming challenges (second year in the Master program) needs to be programmed and students will select their challenge.
- The organising institution should provide the students with a Starter Kit several weeks before the Summer School with an assignment to complete prior to the event linked to the specific HPC thematic of the Summer School. It may be composed of presentations, online lessons or other material to level up the knowledge of all participants. This way when the Summer School starts, all participants are starting with a similar level of knowledge
- The organising institution will deliver a certificate of attendance to the participating students e.g. during a social event with poster session at the end of the Summer School.

Period and timing of the Summer School
The Summer School should take place preferably between 15 July and 15 August and ideally in July 2024. ***Please note that this indicative period and duration of the summer school are <u>flexible</u>.***

Suggested planning: 12 days of event
      Arrival on Sunday afternoon/evening,
      Start on Monday morning / 10 days of classes and 2 days of social programme on week-end
      Departure on Friday afternoon the week after

Organising institution
- This call for proposals is open to Participating Universities and/or External Associated partners of EUMaster4HPC.
- Collaboration between different partners (universities, supercomputing centres and industry) is highly encouraged.

Number of participants
50 EUMaster4HPC students + selected local students from EUMaster4HPC partners

Language of instruction: English

Role of the organising institution
- Set-up of a high quality programme: relevant thematic, excellent lecturers and trainers, involvement of companies and supercomputing centres, make students aware of real HPC cases from business actors
- Nominate a dedicated project manager as a contact person for the EUMaster4HPC consortium and students
- Provide logistics:
  - Coordination of the whole event
  - Management of trainers and speakers
  - Management of students before, during and after the Summer School
  - Suitable location for the academic and social parts of the Summer School
  - Accommodation for all participants in shared rooms
  - Provide meals for students, trainers/speakers and EUMaster4HPC members
  - EUMaster4HPC students are in charge of organising and paying for their travel to the location, however guidance needs to be provided.

Budget
- EUMaster4HPC has a dedicated budget for the organisation of Summer Schools and will reimburse incurred expenses up to a limit.
- The organising institution engages to provide a Summer School on a non-profit basis.
- Proponents should submit a detailed global budget as well as the cost per participant.
- If relevant, additional sources of funding should be suggested. If applicable, the EUMaster4HPC will support an application for additional funds.

Selection of the winning institution
All proposals will be carefully analysed by a committee nominated by the EUMaster4HPC Executive Board and the finalist will be selected by this committee based on following selection criteria:

- Relevance of the chosen specific HPC thematic
- Quality of the academic programme and degree of involvement of companies and supercomputing centres
- Focus on career opportunities on the job market
- Feasibility in terms of budget, organisation and ambition
- Collaboration with other EUMaster4HPC institutions including supercomputing centres and companies
- Attractiveness for students of the non-lecturing activities in terms of community building and transversal skills development as well as social events and fun activities

Details of submission of proposals
- Deadline: **15/12/2023**
- Please send your proposal (Application form) by email, with the subject *'Summer school application 2024'* to the following contact person:

Pedro Alberto	Leader of task 5.1, University of Coimbra	eumaster4hpc@uni.lu
Stephane Labbé	WP5 Leader, Sorbonne University	

Pascal Bouvry	EUMaster4HPC coordinator, University of Luxembourg	