

## [EUMaster4HPC: EUMaster4HPC \(previously Hercules\)](#)

### Description

Advancing education and training in High Performance Computing (HPC) and its applicability to HPDA and AI is essential for strengthening the world-class European HPC ecosystem. It is of primary importance to ensure the digital transformation and the sustainability of high-priority economic sectors. Missing educated and skilled professionals in HPC/HPDA/AI could prevent Europe from creating socio-economic value with HPC. The Hpc European Consortium Leading Education activities (HERCULES) aims to develop a new and innovative European Master programme focusing on high performance solutions to address these issues. The master programme aims at catalysing various aspects of the HPC ecosystem and its applications into different scientific and industrial domains. HERCULES brings together major players in HPC education in Europe and mobilises them to unify existing programs into a common European curriculum. It leverages experience from various European countries and HPC communities to generate European added value beyond the potential of any single university. HERCULES emphasizes on collaboration across Europe with innovative teaching paradigms including co-teaching and the cooperative development of new content relying on the best specialists in HPC education in Europe. Employers, researchers, HPC specialists, supercomputing centres, CoEs and technology providers will constitute a workforce towards this master in HPC pilot programme. This pilot will provide a base for further national and pan-European educational programmes in HPC all over Europe and our lessons learned and the material development will accelerate the uptake of HPC in academia and industry. The creation of a European network of HPC specialists will catalyse transfers and mutual support between students, teachers and industrial experts. A particular focus on mobility of students and teachers will enable students to rapidly gain experience through internships and exposure to European supercomputing centres

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