

JUREAP

Seeding Exascale in Europe

Apply For Early Access Now!

1 Facts and figures

JUPITER (“Joint Undertaking Pioneer for Innovative and Transformative Exascale Research”), hosted at Jülich Supercomputing Centre (JSC), will be the first European exascale supercomputer. It will enable new breakthroughs in critical domains while fostering innovation for the entire European scientific community. The system, with an overall cost of 500 million euros is financed for 250 million euros by the European High Performance Computing Joint Undertaking (EuroHPC JU) and a further 250 million euros in equal parts by the German Federal Ministry of Education and Research (BMBF) and the Ministry of Culture and Science of the State of North Rhine-Westphalia (MKW NRW). To rapidly enable excellent science and maximize the impact of JUPITER as well as enable a smooth start-up for hard- and software, JSC runs the JUPITER Research and Early Access Program (JUREAP).

More details
on JUPITER:

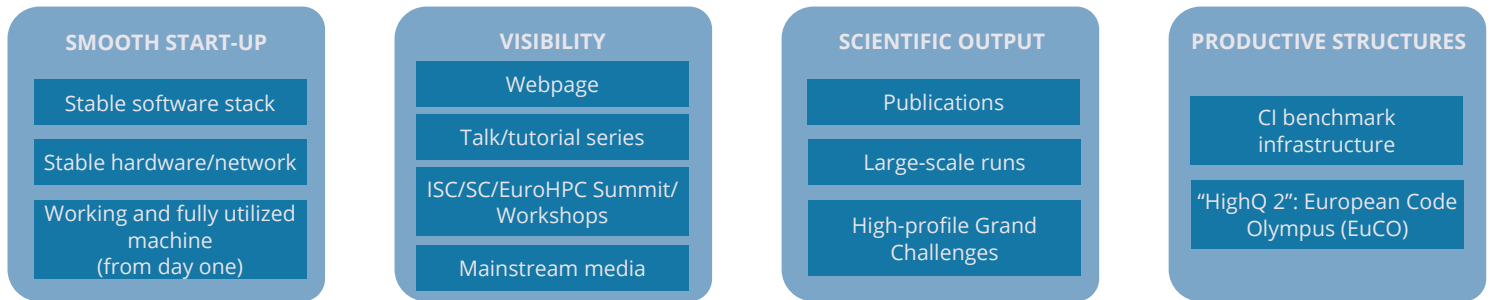


2 Mission and set-up

JUREAP, the JUPITER Research and Early Access Program, is run in close collaboration between the JSC, the EuroHPC Joint Undertaking, the Gauss Centre for Supercomputing (GCS), ParTec, Eviden, NVIDIA, and SiPearl.

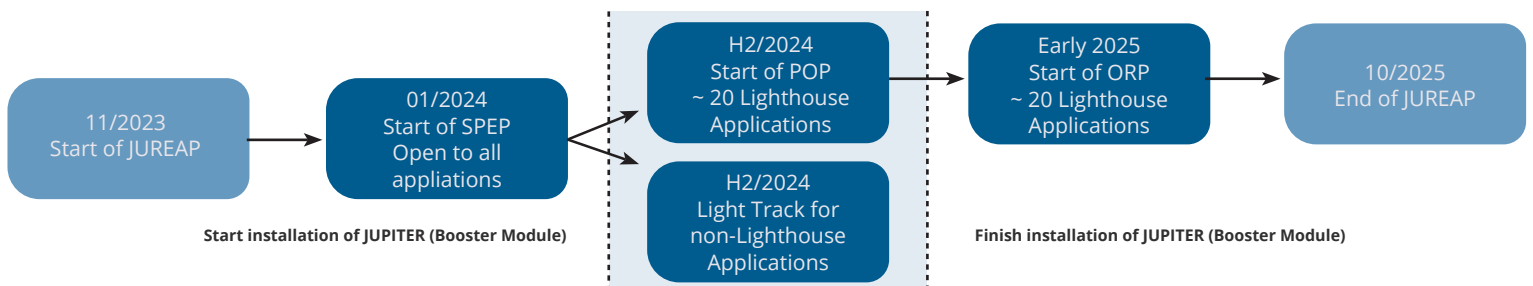


It aims to maximize the success of Europe’s first exascale computer JUPITER. JUREAP will work with domain scientists and HPC experts to enable groundbreaking results. It relies on four pillars:



3 Timeline, participants & how to apply

JUREAP consists of 3 phases: Scalability and Performance Evaluation Phase (SPEP), Porting and Optimizing Phase (POP), Outstanding Research Phase (ORP).



Duration is 2 years, overlapping with the normal operation of JUPITER. SPEP is open to everyone, most promising candidates will be selected for POP and ORP. Initial focus: JUPITER Booster. Applications welcome from any scientific domain, all computational methods (incl. AI).

Please submit your application via the [INDICO portal](#) scanning the code on the right to apply! SPEP opened on 15th January, 2024, and the call for participation will close in summer 2024. Applications need to show potential for scientific large-scale cases.

