

## Training modules for SMEs - Module 1 "Introduction to Artificial Intelligence and High-Performance Computing"

Contribution ID: 4

Type: **not specified**

### How to Apply for HPC Access

1. Understanding HPC Access Requirements
  - Overview of High-Performance Computing (HPC) systems and their importance for research and industry. ○ Familiarity with terms like LINPACK, and petaflops.
2. EuroHPC Joint Undertaking Initiatives
  - Brief on EuroHPC JU and how it democratizes access to HPC resources in Europe. ○ Introduction to the EuroCC project which supports access across academia, industry, and public administration.
3. Benchmark and Development Access
  - Explain the purpose of the EuroHPC JU Benchmark and Development Access calls for testing applications. ○ Highlight the time frames: benchmark (3 months) vs. development access (renewable up to 1 year).
4. Regular and Extreme Scale Access Modes
  - Describe the process and expectations for Regular Access and its significance for large-scale projects. ○ Discuss Extreme Scale Access for high-impact research with resources from pre-exascale systems.
5. Specific Tracks & Resources Distribution
  - Scientific, Industry, and Public Administration Access. ○ Significance of detailed resource allocation plans in the application.
6. AI and Data-Intensive Application Calls
  - Focus on AI, data-intensive applications, foundation models, and their requirement for supercomputing.
7. Scalability and Performance
  - Importance of including scalability tests in applications to demonstrate effective use of HPC resources.
8. Optimization and Code Development
  - Discuss optimization strategies for codes and how to highlight them in proposals.
9. Administrative Details
  - Ensure all data handling and privacy consent forms are completed as part of the application.
10. Useful Resources and Contacts
  - Share URLs and contact information for further guidance and support in the submission processes.

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