Project Scope and Plan – AI and Data-Intensive Applications Access call

|  |  |
| --- | --- |
| **Project title** |  |
| **Research field** |  |
| **AI technologies used** |  |
| **Proposal abstract** |  |

**Principal Investigator (PI)**

|  |  |
| --- | --- |
| Title (Dr., Prof., etc.) |  |
| First (given) name |  |
| Last (family) name |  |
| Organization name |  |
| Department |  |
| Group |  |
| Country |  |

**Co-PIs/Team members (same information)**

Provide the details of any Co-PIs and Team members in the project, including Title, First (given) name, Last (family) name, Organisation, Department, Group and Country.

**It is mandatory to include all team members on the online form.**

**Co-Principal Investigator (Co-PI)/Team member**

|  |  |
| --- | --- |
| Title (Dr., Prof., etc.) |  |
| First (given) name |  |
| Last (family) name |  |
| Organisation name |  |
| Department |  |
| Group |  |
| Country |  |

**IMPORTANT NOTICE**

All of the sections and subsections below **MUST BE COMPLETED** (unless stated otherwise). In case you wish to leave a section empty, please provide a reason. The reviewers will not be able to evaluate proposals that neither provide the requested information nor a justification for the lack of such information for each section.

Applicants are strongly encouraged to **base their proposal on reliable benchmark data obtained on the target machine(s)** from previous calls or access programmes. Such data and support to properly collect these can be obtained from the EuroHPC Benchmark Access call. In order to have the necessary data on time, please submit your Benchmark proposals **at least 1 month before the submission deadline**. For additional questions, please contact the Peer-Review office at access@eurohpc-ju.europa.eu.

**The structure and formatting settings of this template must be preserved and respected** (change in font size or margin and spacing settings are not allowed). The maximum number of pages allowed is **5 pages**, including graphs and tables, but not counting the cover page, Team Members information and References at the end of this document. Reviewers will be instructed not to consider any pages out of the limit. **Instruction paragraphs can be removed from the proposal text.**

**Upload a single document**, based on the present template, in PDF format **without exceeding** 8 MB.

**Proposals that do not follow the template or that are incomplete will be administratively rejected and will not be further evaluated.**

EXCELLENCE (~ 1,5 page)

Proposed methodologies and outcomes

Describe the proposed methods/research and the main advances that you will achieve with the requested EuroHPC allocation. Describe the concept, motivation, objectives and challenges of the problem. Describe and justify the choice of computational methods used. Demonstrate the technical robustness of your AI-based system. Provide a list of expected outcomes of your proposal and, if relevant, the interdisciplinary value of your proposal.

<Enter your text here>

Resources request justification

Provide a justification for the requested resources and why the proposed work needs access time on the EuroHPC JU systems and cannot be achieved on local clusters.

<Enter your text here>

INNOVATION AND IMPACT (~ 1.5 page)

Innovative aspects and foreseen impact

Demonstrate the innovative aspects of the application and how the proposed work will contribute to the advancement of potential innovations. Demonstrate the overall impact of the proposed work, what is the potential impact on societal, economic and/or technological dimensions?

<Enter your text here>

State-of-the-art and comparison with state-of-the-art

Describe to which extent the proposed work is state-of-the-art or beyond. Place the project in the context of competing work. Explain the relative advantages and drawbacks of your approach.

<Enter your text here>

QUALITY AND EFFICIENCY OF THE IMPLEMENTATION (~ 2 pages)

Technical feasibility of the proposal

Describe all codes, libraries and software modules you are using in the proposal. Provide code performance data, including GPU usage and efficiency tests. If applicable, provide scaling plots demonstrating code scalability on the requested system. Note that the software performance must be clearly linked to the justification of the computing resources requested.

<Enter your text here>

Milestones (quarterly basis)

Goals and milestones should articulate simulation and developmental objectives and be sufficiently detailed to assess the progress of the project. It is especially important that you provide clear connections between the project’s overarching milestones, the planned production simulations, and the compute time expected to be required for these simulations. Please clarify any dependencies of milestones on other milestones. Please ensure that the node hour consumption is regular throughout the allocation or provide a requested schedule after consultation with the centres.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Run Type** | **Code(s)** | **No. of runs** | **No. of cores** | **No. of steps per run** | **No of cores per node** | **Time per step(s)** | **Total node hours** |
| A (init. condition prep.) | Code 1 |  |  |  |  |  |  |
| B (low resolution) | Code 2 |  |  |  |  |  |  |
| C (high resolution) | Code 2 |  |  |  |  |  |  |
| D (post processing) | Code 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Gantt Chart

Provide a Gantt Chart of the simulation plan in production indicating job sizes and scheduling of computing tasks including a communication plan for the results and the strategy and timeline for the dissemination of the results.

<Enter your text here>

Personnel and Management Plan

What personnel are already in place and what are their roles on the project? If applicable, describe (i) personnel that will be hired for the project in the future and their responsibilities and (ii) potential personnel turnover that may occur during the project and a strategy for replacing them. The EuroHPC AI and Data Intensive Applications Access call welcomes proposals from individual PIs or teams of collaborators. Outline the focus of each individual or subgroup and their interrelationships.

<Enter your text here>

REFERENCES (Maximum 15)

<Enter your text here>