

Annex 1

to the Call for Expression of Interest for upgrading the EuroHPC JU Supercomputers

**APPLICATION FORM**

**Call REF: EUROHPC-2022-CEI-UPG-01**

Application Ref: [***ACRONYM***]

***IMPORTANT NOTICE***

*Applicants must use this template for their applications (designed to highlight important aspects and facilitate the assessment against the evaluation criteria).*

***Character*** *and* ***page limits****:*

* *page limit: 30 pages*
* *minimum font size — Arial 8 points*
* *page size: A4*
* *margins (top, bottom, left and right): at least 15 mm (not including headers & footers).*
* *pagination instructions: each document from the application must be individually numbered in the bottom right corner.*

*Please abide by the formatting rules. They are not a target! Keep your text as concise as possible. Do not use hyperlinks to show information that is an essential part of your project.*

*Please include in the header (top left) of each page the Acronym of the Application.*

*Before filling in this form, please read carefully the relevant call for Expression of Interest, and any other reference documents related to this call available on our site https://eurohpc-ju.europa.eu/current-calls*

*Please make sure that your application:*

* *is submitted on the correct form, completed in full and dated;*
* *is signed by the person authorised to enter into legally binding commitments on behalf of the applicant;*
* *meets the submission arrangements set out in the call;*
* *is submitted by the deadline.*

*Applicants may be requested to provide additional information or to clarify the supporting documents submitted in connection with the application, provided that such information or clarification does not substantially change the proposal.*

* Paragraphs in italics or boxes with paragraphs in italics are intended as an explanatory guidance for the applicant and shall be deleted before bidding.*

* Don’t forget to delete this page and explanatory text in italics.*

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| --- | --- |
| **PROGRAMME CONCERNED** | |
| **Upgrade of EuroHPC Supercomputer** | |
| **REFERENCE NUMBER OF THE CALL** | |
| Call for Expression of Interest for upgrading the EuroHPC JU Supercomputers EUROHPC-2021-CEI-UPG-01 | |
| **SUMMARY OF THE APPLICATION** | |
| Concerned Supercomputer Name: | |
| Identity of the Coordinator/Applicant: | |
| Consortium: *YES/NO* | |
| Coordinator:  *Partner1*: | Contribution Coordinator: XXX *Euro*  Contribution *partner1*: XXX *Euro* |
| Summary of the Application:(*in EN, max 1000 words)* | |
| Would the hosting consortium be ready to include additional Participating States if selected? *YES/NO*  If YES, please include the indicative amounts of the contribution of the additional Participating States: | |

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# I. INFORMATION ON THE APPLICANTS

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| **1 REFERENCES OF THE APPLICANTS** |

1.1 (*Option 1: Applicant No1 — or Option 2: Coordinator;* *please indicate what is applicable*):

|  |
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| **1.1.1 IDENTITY OF THE APPLICANT** |
| Official name in full: |
| Acronym:  (if applicable) |
| Official legal form: |
| Legal personality[[1]](#footnote-2): |
| Place of establishment or registration:  (Address and country) |
| Entity registration number:  (Not applicable if the applicant is a public-sector body.) |
| VAT number (if applicable): |

The legal details are attached in the Legal Entity Form[[2]](#footnote-3) to be provided as annex. Any changes in the legal entity form must be notified in writing to the Executive Director.

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| **1.1.2 CONTACT DETAILS** |
| Street address: |
| Postcode: |
| City: |
| Region (if applicable): |
| Country: |
| Telephone: Mobile: |
| Fax: |
| E-mail address: |
| Website: |

Any change in the addresses, phone numbers, fax numbers or e-mail, must be notified in writing to the Executive Director. The Executive Director will not be held responsible in the event that it cannot contact an applicant**.**

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| **1.1.3 CONTACT PERSON RESPONSIBLE FOR THE Expression of Interest** |
| Family name: First Name: |
| Position/Function: |
| Telephone: Mobile: |
| Fax: |
| E-mail address: |
| **1.1.4 LEGAL REPRESENTATIVE (PERSON AUTHORISED TO SIGN THE HOSTING AGREEMENT)** |
| Family name: First Name: |
| Position/Function/Mandate: |
| Telephone: Mobile: |
| Fax: |
| E-mail address: |

1.2 Applicant No 2 (If applicable, repeat this part as often as is required to include all applicants)*.*

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| **1.2.1 IDENTITY OF THE APPLICANT** |
| Official name in full: |
| Acronym:  (if applicable) |
| Official legal form: |
| Legal personality[[3]](#footnote-4): |
| Place of establishment or registration:  (Address and country) |
| Entity registration number:  (Not applicable if the applicant is a public-sector body.) |
| VAT number (if applicable): |

The legal details are attached in the Legal Entity Form[[4]](#footnote-5) to be provided as annex. Any changes in the legal entity form must be notified in writing to the Executive Director.

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| **1.2.2 CONTACT DETAILS** |
| Street address: |
| Postcode: |
| City: |
| Region (if applicable): |
| Country: |
| Telephone: Mobile: |
| Fax: |
| E-mail address: |
| Website: |

Any change in the addresses, phone numbers, fax numbers or e-mail, must be notified in writing to the Executive Director. The Executive Director will not be held responsible in the event that it cannot contact an applicant**.**

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| **1.2.3 CONTACT PERSON RESPONSIBLE FOR THE APPLICATION** |
| Family name: First Name: |
| Position/Function: |
| Telephone: Mobile: |
| Fax: |
| E-mail address: |

# III. INFORMATION ON THE EXPRESSION OF INTEREST

## III.I General System specifications

*Applicants must describe in detail the scope of the upgrade, how the following upgraded system specifications will be met in order to be compatible with the original supercomputer and the site.*

*A detailed description of the system upgrade which may include all or a subset of the following items depending on the upgrade scope:*

* *Description of computing nodes upgrade, their target configuration, envisioned architecture and the expected sustained performance.*
* *Local node memory or storage upgrade (target sizes and expected technologies).*
* *Description of the high-performance storage system upgrade including the target architecture and performance characteristics of the system.*
* *Interconnect upgrade. Target topology. Bandwidth and latency characteristics. Integration with the existing application, management and monitoring network.*
* *Compatibility with the existing system. Description of the foreseen integration activities including the expected impact on existing system availability, downtime period required etc.*
* *Upgrade of software, application libraries and development suites including acquisition of additional licenses for the existing software.*
* *Acceptance tests and benchmarks to be used for the upgraded system.*

## III.2 Total Cost of Ownership (TCO)

*The applicant should include an estimation of the cost of the upgraded system that the applicant has in mind.*

*The estimation of the TCO will be based on an estimation of the acquisition costs of the upgraded system that complies with the general system specifications and on an estimation of its operating costs. The costs related to the extension of the hosting site per se (i.e., the costs related to the building infrastructure that will host the upgraded supercomputer, etc.) shall not be covered by the EuroHPC JU. The costs of the preparation and adaptation of the hosting site incurred by the hosting entity that can be directly accounted to the upgraded system may be considered as part of the TCO.*

*Applicants must provide their intention with regards to the duration of the operations of the EuroHPC JU supercomputer which will now include the upgraded system.*

### III.2.1 Site Preparation

*The hosting entity must be able to meet the baseline requirements set out herein in time for the anticipated timeline for the supercomputer upgrade. The applicant must provide a plan of how and in what timeline intends to realise the construction of the extension of the existing site, including costs of each action (indicating the ones that will be considered as in-kind contribution) and the definitive date at which the site will be ready for the installation of the upgraded EuroHPC system.*

### III.2.2 Acquisition Costs

*Applicants must detail the estimation for the cost of the acquisition of the high-end supercomputer. Applicants must indicate clearly what costs will be included in this category, how they will calculate them and who will pay for those.*

### III.2.3 Operating Costs

*Applicants must provide an auditable methodology to calculate and to verify the operating costs of the upgraded supercomputer for the duration of the action. Applicants must describe the model that will be used for calculating the costs of the Operational expenditures (OPEX), detailing the cost elements included in the model and providing estimates for each cost.*

*The hosting entity should be in position to provide an accurate estimate and to verify the operating costs of the upgraded supercomputer.*

*The method should be used in the operating grant to calculate the operating costs and the amount that will be covered by Union's contribution. Applicants can use the indicative list of cost elements provided in Appendix 2 to consider in the calculation of the operating costs.*

*Applications must include at least the following information and/ or estimations:*

* *Average power usage effectiveness (PUE) for the current data centre over the last 12 months.[[5]](#footnote-6) And, in the case that the applicant would be upgrading the site to host the upgraded supercomputer, what is the planned (design specification) PUE for the upgraded data centre[[6]](#footnote-7)*
* *Updated depreciation time for the building, technical building infrastructure and IT investments and method used for the depreciation of the assets (e.g. linear).*

By submitting an application the applicant accepts that in case of award certain data like the name, locality and amount (amongst others) will be published.

By submitting an application, the applicant and participants of the hosting consortium accept the terms and conditions set out in the call for expression of interest and the model hosting agreement to be found in Annex 2 of the call for expression of interest.

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| I declare that all information provided in this application form and its annexes is correct.  Date: Signature of the legal representative  of the coordinator organisation |

# CHECKLIST FOR APPLICANTS

*Please use this checklist to ensure that you attach all of the necessary documents*

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| --- | --- | --- |
| **Document and content** | **Coordinator** | **Partner** |
| All sections of the application form have been filled in, where appropriate, in accordance with the Call for Expression of Interest or any other document provided as guidance related to the programme concerned. |  | N/A |
| Provision of an appropriate supporting document proving the commitment of the Member State where the hosting entity is established or of the competent authorities of the Participating States of the hosting consortium to cover the share of the total cost of ownership of the pre-exascale supercomputer that is not covered by the Union contribution. |  |  |
| The declaration(s) on honour has (have) been signed and attached in original (see template in Annex a) |  |  |
| Legal details have been included in the Legal Entity Form annexed.  <http://ec.europa.eu/budget/contracts_grants/info_contracts/legal_entities/legal-entities_en.cfm> |  | N/A |
| Mandate letters have been signed and attached in original (if applicable; see template in Annex b) | N/A |  |

1. Legal personality is understood as applicant’s capacity to sign contracts and constitute a party in court proceedings under the applicable national legislation. [↑](#footnote-ref-2)
2. <http://ec.europa.eu/budget/contracts_grants/info_contracts/legal_entities/legal-entities_en.cfm> [↑](#footnote-ref-3)
3. Legal personality is understood as applicant’s capacity to sign contracts and constitute a party in court proceedings under the applicable national legislation. [↑](#footnote-ref-4)
4. <http://ec.europa.eu/budget/contracts_grants/info_contracts/legal_entities/legal-entities_en.cfm> [↑](#footnote-ref-5)
5. [↑](#footnote-ref-6)
6. [↑](#footnote-ref-7)