**Proposal for LRZ Application Lab Support Call**

|  |  |
| --- | --- |
| **Proposed Project Title** |  |
| **SuperMUC project ID (if any)** |  |
| **LRZ Application Lab** *(only Astro Lab for this call)* | ***Astro*** | ***X*** |  *Bio* |  |  *Geo* |  |  *Energy* |  |
|  |  |  |  |
|  |  |  |  |
| **Type of work proposed** | *Parallel performance**Hybridization**Algorithm (re)design**Computational method(s)* |  | *Performance analysis* *Coprocessors**Other (please specify)* |  |
|  |  |
|  |  |
|  |
| **Estimated manpower requirement***(in Person Month (PM),* *Max 3 PMs for LRZ)* | *AstroLab:*   | *Applicants effort:*  |

**Principle Investigator:**

|  |  |
| --- | --- |
| Name |  |
| Institution |  |
| Address |  |
| Official Email |  |
| Phone |  |

**Collaborating team member(s):**

*(Please list all the persons expected to be involved)*

|  |  |  |
| --- | --- | --- |
| 1. | Name & Email |  |
| 2. | Name & Email |  |

**Details of application/code in its present status**

|  |  |
| --- | --- |
| Algorithm/code type |  |
| Scaling Performance (No. of cores) | Max: | Typical production runs: |
| Memory requirements |  |  |
| Storage requirements  |  |  |
| Communication strategy *(MPI, OpenMP, hybrid or others)* |  |
| Programming language(s) |  |
| Code owner ( or contribution of PI if 3rd party code) |  |
| Publicly available | Yes / No |
| 3rd party library requirements |  |
| Other system(s) and computing site(s) being used |  |

**Proposal Summary:**

*(Please give a short description of the background and motivation for this project (max 150 words).*

|  |
| --- |
|  |

**Expected Outcomes/Impacts:**

*Describe the expected outcome of the proposed work indicating the benefits this support call will have on the computational capabilities within existing or planned projects at LRZ and for the community as a whole or other projects (max 300 words).*

|  |
| --- |
|  |

**Proposed Work plan:**

*Describe briefly the nature and timeslots of the proposed work preferably with a Gant chart (max 1 page).*

|  |
| --- |
|  |

**Confidentiality:**

*I agree / I do not agree that the results of the optimization effort may be used by LRZ for dissemination.*

*(If the application or the project’s results must be treated confidentially, please declare your reasons here.)*

*I agree / I do not agree that the code can be shared with third parties collaborating with LRZ.*

*(LRZ is collaborating with hardware and software vendors of SuperMUC for the improvement of codes and for solving problems. The codes will be treated with confidentiality by them.)*

|  |
| --- |
|  |