



## Fact sheet on applications for GCS/LRZ computing time projects on SuperMUC-NG

System Overview SuperMUG-NG	
Avail. core-h	580 million core hours for 26 <sup>th</sup> GCS Large-Scale Call
Processor	Intel Skylake, 48 cores/node
Nodes/Memory	6,336 Thin/96GB + 144 Fat/768GB
Total cores	311,040
Interconnect	Intel OmniPath 100 GB/s

1. Prospective users can apply for computing time on SuperMUC-NG at the GCS-JARDS web site <https://jards.gauss-centre.eu/gcshome/application>  
Applications are accepted online only; applications via email will be rejected.  
Depending on the amount of compute time requested, there are two types of applications:
  - a) Applications for **GCS Large-Scale** Projects requiring 45 million core hours or more in a one-year time frame can apply twice a year at defined periods of time. The dates for the next call can be found on the [GCS webpage](#). The call deadlines are strict, thus, applications submitted after the call deadline will be rejected.
  - b) Applications for **Regular** (<45 million core hours) and **Test** Projects (300,000 core hours) can be submitted continuously (rolling call). Please tag the appropriate box on the GCS-JARDS web site.
2. Projects with a **huge computing time** demand are explicitly encouraged to apply for a GCS Large-Scale project. If the application is not granted as a GCS Large-Scale project, it is automatically considered as a regular SuperMUC-NG project. Therefore, there are no disadvantages for the applicants submitting a large-scale proposal.
3. Scientists employed at universities or research facilities in **Germany** are **eligible for application**; the nationality of the applicant ("Principal investigator, PI") does not play a role. Applicants from other **European countries** may only apply for compute time on SuperMUC-NG via [PRACE](#). The PI of a project must have a proven scientific record (preferable a PhD or comparable degree) and must be able to successfully accomplish the proposed tasks.

#### 4. Change of Budget Policy for Project Extensions on SuperMUC-NG

Beginning with Call 24, the LRZ changed its policy regarding the extension of projects. Unused compute time budgets for GCS Large-Scale Projects will be **cut off** at the start of the new granting period. This applies equally, whether the project was a regular or a large-scale project before. Alternatively, you may request a cost neutral prolongation of your project to consume the remaining budget, but no new compute time will be awarded.

If you have any questions, consult your [mentor](#) or issue a ticket at [servicedesk.lrz.de](https://servicedesk.lrz.de).

*Example:* A current GCS Large-Scale Project with 50 M core-h on SuperMUC-NG ends 31 October 2021 and has a remaining compute budget of 10 M core-h. The PI writes an application for an extension of his GCS Large-Scale Project, asking for 75 M core-h for the next call period. The GCS steering committee grants 60 M core-h based on the reviews. November 1, 2021, the project starts with a budget of 60 M core-h. The remaining 10 M core-h from the previous granting period could not be consumed in time and, therefore, are cut off.

5. For the preparation of the requested project description, please use the **template**, which is available in [Word](#), [LaTeX](#) and [PDF](#), and adhere to the [guidelines](#) given on the GCS webpage. Since the templates may change from call to call, make sure to use the latest version using the links above. Please be aware that the size of the description is limited to **18 pages** (font size 11pt) and **60 MB**.

In case you apply for a project extension, please also upload the status report (max. 10 pages) as a separate file (PDF). Please use the **template**, which is available in [Word](#), [LaTeX](#) and [PDF](#).

6. Further details are given on the [SuperMUC-NG web site](#).