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

1. Prospective users can apply for computing time on SuperMUC-NG. Depending on the demand of compute time, there are two different ways for the application:

   - Applications for **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.
   - Applications for **Regular (<45 million core hours)** and Test Projects (<100,000 core hours) can be submitted any time via the following link:

     https://jards.gauss-centre.eu/gcshome/application

   Applications are accepted *online only*; applications via email *will be rejected*.

2. Scientists 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-LS project, it is automatically considered as a regular SuperMUC-NG project. Therefore, there are no disadvantages for the applicants submitting a large-scale project.

3. **Eligible** for application are scientists employed at universities or research facilities **in Germany**; the nationality of the applicant ("Principle 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. **System Overview**

SuperMUG-NG:	
Avail. core-h	500 million core hours for 24th 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

5. **Important: Change of Budget Policy for Project Extensions on SuperMUC-NG**
   Beginning with this call, the LRZ will change its policy regarding the extension of projects - unused compute time budget for Gauss Large Scale Projects will be cut-off at the start of the new granting period. This applies equally, wether the project was a regular or a large scale project before.
   Example: A current Gauss Large Scale Project with 50mio core-h on SuperMUC-NG ends 31 October 2020 and has a remaining compute budget of 10 M core h. The PI writes an application for an extension of his Gauss Large Scale Project, asking for 75 mio core-h for the next call period. The GCS steering committee grants 60 mio core-h based on the reviews. November 1, 2020, the project starts with a budget of 60 mio core-h. The remaining 10 M core h from the previous granting period could not be consumed in time and, therefore, are cut off. This new policy ensures comparability between project applications and helps the LRZ to evenly

distribute the available compute time budget.
You still have the possibility to request a cost neutral prolongation of your project to consume a remaining budget, but no new compute time will be awarded.

6. 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 12pt) 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.

7. Further details are given on the SuperMUC-NG web site.