

Fact sheet on applications for VSR computing time projects

1. Prospective users can apply for computing time twice a year at defined periods of time. The dates for the next call can be found on the [website for VSR projects](#).
2. Eligible are scientists affiliated with the Forschungszentrum Jülich. The principal investigator (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.
3. Projects which will expire in the ending allocation period can be extended for the upcoming allocation period. On-going projects **cannot be extended** in the upcoming call.
4. Applications are accepted **online only**. Applications via email will **not be accepted**. The call deadlines are strict deadlines, requests for applying after the call deadline **will be rejected**. *Applications that do not use the required templates for the project description and the status report (see section 7. below) might be rejected.*
5. Computing time requirements can be specified either in million core-hours (Mcoreh) or in 10^{18} FLOP per year (EFLOP¹) based on the resources' theoretical peak performance. EFLOP allow a better comparison of requests across different resources. Both units will be converted into each other and displayed in the electronic questionnaire. However, **resources will be granted, allocated and accounted in core-hours only**.
6. Computing and data resources, as well as access to the JSC HPC infrastructure, are provided to the best of our ability. However, approved resources are not guaranteed. We reserve the right to limit the availability of resources if external conditions such as force majeure, obligations to save electricity, or other circumstances make this necessary. Resources lost in such cases will not be refunded.
7. Please fill out the sections of the online application form considering the following information:
 - **Section Scientific objectives:** Please fill out the point "Other applications for computing time" carefully - incomplete information may lead to a significant cutback of resources or even to the rejection of the proposal. Please provide this information in the online form only and not in the project description.
 - **Section Upload files:** Please use the latest versions of the sample documents (project description: [Word](#), [LaTeX](#), [PDF](#), status report: [Word](#), [LaTeX](#), [PDF](#)) and observe the [guidelines](#). You must address comments and questions from the reviewers of your previous proposals in the corresponding section of the status report. Please be aware that the description is limited to 18 pages (font 11pt) and 60MB, the status report is limited to 10 pages (font 11pt) and also 60MB.
 - **Section Finalize:** After pressing the FINALIZE button you will get back to the application list. Here you can find this application in the list of "finalized applications". Please sign the application form and the PI agreement and send it to the Coordination Office for the Allocation of Computing Time by email (coordination-office@fz-juelich.de).

Available resources

JURECA (Jülich Research on Exascale Cluster Architectures)		
Resource type	Node characteristics	Available resources ²
JURECA-DC CPU	2 AMD EPYC Rome 7742 (2.25 GHz, 64 cores each), 128 cores/node with at least 512 GB main memory (~4 GB memory/core)	~170 Mcoreh or about 22000 EFLOP
JURECA-DC GPU	CPU configuration identical to JURECA-DC CPU + 4 NVIDIA A100 with 40 GB HBM2e memory per GPU	~60 Mcoreh ³ or about 139500 EFLOP ³
Remarks		
About 40 project applications for JURECA resources are received per call.		

Application link for all resources: <https://application.fz-juelich.de/login>

¹ EFLOP reflects the number of (peak) floating-point operations (FLOP) per year available to approved projects.

² The exact conversion factors (core-hour to FLOP in units of EFLOP/Mcoreh) as used in the electronic questionnaire are: 129.60 (JURECA-DC CPU) and 2323.35 (JURECA-DC GPU).

³ For your information: 1 GPUh corresponds to 32 coreh or about 0,075 EFLOP on JURECA-DC_GPU, only full nodes are allocated

Collection of relevant links

Call information, guidelines and applications

Guidelines for applications

<https://www.fz-juelich.de/en/jsc/systems/supercomputers/apply-for-computing-time/vsr>

HPC system JURECA

<https://www.fz-juelich.de/en/jsc/systems/supercomputers/jureca>

Content of Agreements

Each PI needs to sign a PI agreement, **which will be send to the PI electronically after finalization of an application**. Users of accepted projects need to agree to the usage agreement electronically **in JuDoor**. Here you can find **examples** of these agreements **for your information only**:

PI agreement: <https://application.fz-juelich.de/PublicFiles/Agreements/PI-Agreement.pdf>

Usage agreement: <https://application.fz-juelich.de/PublicFiles/Agreements/Usage-Agreement.pdf>

Templates for project descriptions

Word

<https://application.fz-juelich.de/PublicFiles/Description/VSR-template-project-description.docx>

LaTeX

<https://application.fz-juelich.de/PublicFiles/Description/VSR-template-project-description.zip>

PDF

<https://application.fz-juelich.de/PublicFiles/Description/VSR-template-project-description.pdf>

Templates for status and final reports

Word

<https://application.fz-juelich.de/PublicFiles/Report/VSR-template-final-status-report.docx>

LaTeX

<https://application.fz-juelich.de/PublicFiles/Report/VSR-template-final-status-report.zip>

PDF

<https://application.fz-juelich.de/PublicFiles/Report/VSR-template-final-status-report.pdf>