

Fact sheet on applications for ESM computing time projects on JUWELS

Important changes with respect to previous calls are marked in **red**

1. Prospective users can apply for computing time twice a year at defined periods of time synchronized with the GCS calls for computing time. The dates for the next call can be found on the [JSC website](#).
2. Eligible to apply for ESM resources are researchers from all HGF institutions (Helmholtz Association of German Research Centres) in the research field Earth and Environment together with their national cooperation partners outside the HGF. 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.
3. Projects which will expire in the ending allocation period can be extended in 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**.
5. **Important note for users of HCP-Systems located at JSC:** JSC introduced a new, user-centered model for using the supercomputing systems. Each user has only one account. Via this account all assigned projects can be accessed. In addition, data projects were introduced besides the known computing time projects. Computing time resources will continue to be requested through computing time projects and these projects continue to have access to a scratch file system (without backup) and a project file system (with backup). Access to the tape-based archive, however, is only possible via data projects. In addition, data projects provide access to various additional storage layers; however, they are not equipped with a computing time budget. For a **fact sheet** on data projects and to **apply for data projects** please see <https://application.fz-juelich.de/Antragsserver/dataprojects/WEB/application/login.php?appkind=dataprojects>. For further information see the [usage model website](#), contact the user support (sc@fz-juelich.de) or contact the coordination office for the allocation of computing time (coordination-office@fz-juelich.de).
6. Please fill out the sections of the online application form considering the following information:
 - **Section Application list:** If you have an extensible project (see point 3. of this fact sheet) and you would like to continue studies on the topic of the project, please extend this project by providing the corresponding project ID and click on EXTEND, otherwise, on NEW. **Important change for PIs located at FZJ:** Please note that JARA/VSR project applications are no longer available in this list. If you would like to extend or reuse one of your former JARA/VSR project applications, please login to <https://application.fz-juelich.de/login?appkind=jarajureca>, export the corresponding application and import the data in the **Section Project type**.
 - **Section Project type:** Please chose ESM Project. Furthermore you can import data of another application in this section, if applicable.
 - **Section Resources:** Please select whether you apply for CPU and/or GPUs.
 - **Section Applicant's data:** Here you can add a person to contact and project partners of your project.
 - **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.
 - **Sections JUWELS CPU/GPU res.:** You have to specify your requests for each resource you are applying for (CPU, GPU) separately in the corresponding resource panels of the on-line application form. The performance and scaling data as well as the justification for the kind and amount of resources requested must be discussed in detail also separately for each resource (CPU, GPU) you are applying in the project description.
 - **Section Upload files:** Please upload here your detailed project description in PDF. Please use the template which is available for [Word](#), [LaTeX](#) and in [PDF](#) and observe the [guidelines](#). Since the templates may change from call to call make sure to use always 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 60MB. In case you apply for a project extension, please upload here also the status report as a separate file (PDF). Please use the template which is available for [Word](#), [LaTeX](#) and in [PDF](#). The status report is limited to 10 pages (font size 12pt) and 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 use the PRINT button for printing the application form, sign the form and send it to the Coordination Office for the

Allocation of Computing Time preferred by email (coordination-office@fz-juelich.de). Sending it additionally by regular mail is not necessary.

7. Available ESM resources on JUWELS per call

JUWELS (Jülich Wizard for European Leadership Science)		
Module	Node Configuration	Available Resources
Cluster Module • CPU	Two Intel Intel Xeon Platinum 8168 "Skylake", (2.7 GHz, 24 cores each), 48 cores/node • 2271 nodes: 96 GB main memory (~2 GB memory/core) • 240 nodes: 192 GB main memory (~4 GB memory/core)	~60 million core-h
Cluster Module • GPU	Two Intel Intel Xeon Gold 6148 "Skylake", (2.4 GHz, 20 cores each), 40 cores/node, 4 NVIDIA V100 • 48 nodes: 96 GB main memory (~4 GB/CPU-core)	~1 million core-h
Hints ¹⁾		
Approx. 10 applications were competing for the given resources in the past.		
Remarks		
<p>General remark Access to the ESM partition of JUWELS for testing and code porting purposes as well as for preparing applications for a regular computing time projects is possible at any time (rolling call). Please contact the coordination office for computing time (coordination-office@fz-juelich.de) for further information about the application procedure.</p> <p>Cluster Module (GPU) On nodes with GPUs host core-hours are accounted.</p> <p>For further details about JUWELS, please visit the JUWELS webpage.</p>		
Link to apply		
https://jards.gauss-centre.eu/Antragsserver/gcscutoff/WEB/application/login.php?appkind=gcsapplication&projecttype=esm		

¹⁾ Provided to help applicants to estimate how many core-h can be *realistically* requested per application.

Collection of relevant links

Call information and applications

Modular Supercomputer JUWELS

https://www.fz-juelich.de/ias/jsc/EN/Expertise/Supercomputers/JUWELS/JUWELS_node.html

Information about the application process for ESM computing time projects

<https://www.fz-juelich.de/ias/jsc/EN/Expertise/Supercomputers/ComputingTime/esm-application.html>

ESM project applications

<https://jards.gauss-centre.eu/Antragsserver/gcscutoff/WEB/application/login.php?appkind=gcsapplication&projecttype=esm>

GCS call for computing time projects

https://www.gauss-centre.eu/ gauss-centre/EN/HPCservices/HowToApply/_node.html

Information about the new usage model at JSC

https://fz-juelich.de/ias/jsc/EN/Expertise/Supercomputers/NewUsageModel/NewUsageModel_node.html

Templates for project descriptions

Word

<https://www.fz-juelich.de/SharedDocs/Downloads/IAS/JSC/EN/supercomputer/template-project-proposal-docx.docx>

LaTeX

<https://www.fz-juelich.de/SharedDocs/Downloads/IAS/JSC/EN/supercomputer/template-project-proposal-tex.tar>

PDF

<https://www.fz-juelich.de/SharedDocs/Downloads/IAS/JSC/EN/supercomputer/template-project-proposal-pdf.pdf>

Templates for status and final reports

Word

<https://www.fz-juelich.de/SharedDocs/Downloads/IAS/JSC/EN/supercomputer/example-iuwels-status-final-report-docx.docx>

LaTeX

<https://www.fz-juelich.de/SharedDocs/Downloads/IAS/JSC/EN/supercomputer/example-iuwels-status-final-report-tex.tar>

PDF

<https://www.fz-juelich.de/SharedDocs/Downloads/IAS/JSC/EN/supercomputer/example-iuwels-status-final-report-pdf.pdf>