

## Quick Reference Card for Paderborn Center for Parallel Computing, PC<sup>2</sup>



Guidelines for the Application, Approval and Allocation of HPC-Resources at Paderborn Center for Parallel Computing, PC<sup>2</sup>
https://pc2.uni-paderborn.de

Paderborn Center for Parallel Computing

https://pc2.uni-paderborn.de document created by https://hpc.dh.nrw

Detailed information with an interactive guide for a project application is available at https://pc2.de/go/access.	
Project Preparation	<ol> <li>Detailed information for application to access HPC systems at PC<sup>2</sup> can be found at https://pc2.de/go/access.</li> </ol>
	<ol> <li>Estimate the needed resources. If need is unknown or unsure, request a test project or NHR-Starter project by contacting PC<sup>2</sup> support.</li> </ol>
	3. Select project category according to the flow chart on the next page.
	4. For NHR normal project and NHR large project:
	collect information on scaling of programs or perform scaling analysis
	• compose detailed project description (https://pc2.de/go/hpc-proposal-forms)
Proposal Submission	<ol> <li>Visit https://pc2.uni-paderborn.de/system-access/step-3-apply-for-resources and follow the documented guides</li> </ol>
	2. In case of questions contact PC <sup>2</sup> support
	<ol> <li>After submission of the proposal you will receive a summary by mail that has to be signed by the PI and PA/PC and send to PC<sup>2</sup> support (qualified electronic signatures are allowed).</li> </ol>
Formal Evaluation	• PC <sup>2</sup> checks the formal aspects of the project.
	• PI and PA/PC will be contacted by PC <sup>2</sup> if questions or problems come up.
	Duration of evaluation: a few days.
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Technical Review	<ul> <li>HPC experts at PC<sup>2</sup> check your proposal for technical feasibility (availability of requested resources, software,) and contact PI and PA/PC if problems or questions arise.</li> </ul>
	Duration of evaluation: a few days.
Scientific Review	For test project and NHR-Starter project: not required
	• For <b>small project</b> : scientific review by experts from PC <sup>2</sup> , usually takes a few days
	• For NHR normal project and NHR large project: scientific Single-blind review by external
	experts from the field of the proposal with at least two reviews per proposal, usually takes a few weeks
Resource Allocation and Monitoring	<ol> <li>The RAB of PC<sup>2</sup> decides on allocation of resources for your project.</li> </ol>
	2. You will be informed by mail about the approval/refusal and the granted resources.
	<ul> <li>PC<sup>2</sup> offers courses on usage of Linux, HPC systems and other HPC topics at https://pc2.de/go/hpccourses.</li> </ul>

• Details about support can be found at <a href="https://pc2.de/go/support">https://pc2.de/go/support</a>.

usage with the command line tool pc2status.

• The PI and PA/PC will receive monthly summaries on used compute time and file system

• Every member of a project can view project statistics, scheduling priorities and file system

quota per mail.



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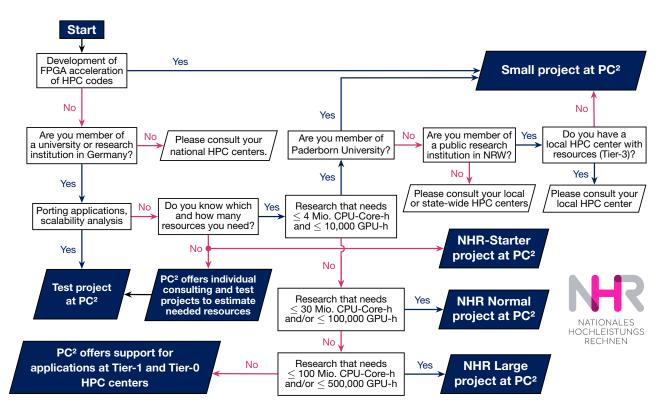
Guidelines for the Application, Approval and Allocation of HPC

# HPC.NRW

Resources at Paderborn Center for Parallel Computing, PC<sup>2</sup>
https://pc2.uni-paderborn.de
document created by https://hpc.dh.nrw



Detailed information with an interactive guide for a project application is available at <a href="https://pc2.de/go/access">https://pc2.de/go/access</a>. A simplified flow chart is shown below.



## **Glossary of Terms and Definitions**

HPC High-performance computing.

Linux Operating system used on HPC cluster systems.

- **NHR** Nationales Hochleistungsrechnen (National Centre for High Performance Computing). NHR focuses on the concerns of the scientists and scientific developments.
- **PA/PC** The project administrator (PA) or person of contact (PC) is a member of a compute project and responsible for the technical aspects of the project. PI and PA/PC can be the same person.
- PC<sup>2</sup> Paderborn Center for Parallel Computing, Paderborn University.
- PI The principal investigator (PI) is responsible for all legal and scientific aspects of a project as well as project application and the project execution. They need to have a doctoral degree. They have to make sure that citizens of countries that are subject to the export control policy of the German Federal Government have an additional authorization from the German Federal Office for Economic Affairs and Export Control (BAFA) before they are allowed to use the compute resources of the project.
- **RAB** Resource Allocation Board, committee that decides on the acceptance/refusal of project proposals and allocation of compute resources based on the rating of the scientific reviewers. The review process follows the recommendations of the Gauss-Alliance for High-Performance-Computing in Germany.
- **single-blind review** A review process in which the reviewers know the identity of the authors of the proposal, but the applicants don't know the identities of the reviewers.