





Application form Performance Engineering: hpc.bw - High Performance Computing (HPC) in Research

Project title:		
Planned project duration:		
Contact person:	E-mail:	
Faculty:	Professorship:	
If applicable, relation to funded r	esearch project (project title, funding institution):	
1. Description of the research	project	
•	project or which HPC is needed (approx. 4 lines).	
1.1. Outline the research project to	which the is needed (approx. 4 lines).	
1.2 How/why should HDC housed	for the project (approx. A lines)?	
1.2. How/why should HPC be used	for the project (approx. 4 lines)?	
2 Description of the existing s	software that is to be optimized by means of HPC (app	roy 4
lines): functionality, areas o		10%.
inics). Tunctionancy, areas o	application, etc.	
3. hpc.bw support services in y	your project	
3.1. What problems (if any) are cur	rently present in your software (e.g. program too slow (runt	ime),
memory consumption too high	n)? Can you quantify these (approx. 4 lines)? (Example: Halvi	ng the
runtime is necessary to answer	r the research question)	







•	mance engineeri ole: Software exe	•	 •	ble with Windows/	Linux)
		•	 •	w (approx. 4 lines)? PI parallelization))

3.2 What are the requirements for the software that is to be ontimized after the needed

4. Self-assessment (single choice): How familiar are you with HPC and programming?

- o No knowledge (you only write individual lines of a program or have no experience with programming or optimized software)
- o Basic knowledge (you write parts of programs yourself, e.g. larger Excel macros, Matlab scripts or interfaces to commercial software)
- o Advanced knowledge (you write your own programs/parts of programs for parallelized execution on HPC computing systems)
- o Expert knowledge (you parallelize and optimize your software mostly independently and have detailed knowledge of job scheduling systems such as SLURM or PBS)

Please send the completed application form by 14.02.2025 to: info-hpc-bw@hsu-hh.de