

FOR RESEARCHERS, 2nd CALL FOR PROPOSALS FOR COMPUTING TIME ON PARAM RUDRA HPC FACILITY

Your Gateway to Large-scale Computing Excellence

The 20PF (10PF CPU + 10PF GPU) PARAM Rudra HPC Facility invites proposals from researchers seeking access to large-scale computing resources for computationally demanding scientific-engineering applications.

Category 1: Large-Scale GPU Applications



Applicants must demonstrate the ability to scale efficiently across a minimum of 50 GPU nodes, with each node equipped with 2 NVIDIA A100 GPUs. Proposals should include:

- Scientific objectives and expected outcomes
- Computational requirements
- Evidence of scalability to at least 50 GPU nodes
- Resource estimation (GPU nodes, runtime, storage)
- Parallelization and optimization strategy

Category 2: Large-Scale CPU Applications



Applicants must demonstrate scalability to a minimum of 10,000 CPU cores. Proposals should include:

- Scientific objectives and expected outcomes
- Computational requirements
- Evidence of scalability to 10,000 CPU cores or beyond
- Resource estimation (cores, runtime, storage)
- Parallelization and I/O strategy

Evaluation Criteria

Proposals will be evaluated based on:

- Scientific and research impact
- Scalability and performance
- Technical readiness
- Resource utilization efficiency
- Potential for publications and broader societal impact

Selected projects will receive access to 20PF (10PF CPU + 10PF GPU) PARAM Rudra HPC resources along with technical support for performance optimization and large-scale execution.

Researchers interested in utilizing the HPC system for large scale simulations, data analytics, artificial intelligence, engineering, and scientific computing are encouraged to submit their proposals.

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Email: rudra-application@cdac.in