



# NATIONAL SUPERCOMPUTING MISSION

INFRASTRUCTURE | APPLICATIONS | R&D | HRD



## PARAM RUDRA ACCOUNT REQUEST FORM

### User Details:

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Organization Address: \_\_\_\_\_

Gender: \_\_\_\_\_

Department: \_\_\_\_\_

Designation: \_\_\_\_\_

*(Designation: If student, provide the details below)*

Roll No.: \_\_\_\_\_ Course: \_\_\_\_\_ Academic Year: \_\_\_\_\_

Official Email address: \_\_\_\_\_

Office no.: \_\_\_\_\_ Mobile no.: \_\_\_\_\_

*(If Research, provide the details below)*

Nature of the Research: \_\_\_\_\_

\_\_\_\_\_

### Project Details:

Project Name: \_\_\_\_\_

Nature of the Project: \_\_\_\_\_

Brief Description of the Project: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Project Start Date: \_\_\_\_\_ Project Duration: \_\_\_\_\_

Proposed work on PARAM Rudra & Requirement of resources: \_\_\_\_\_

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### **PARAM Rudra Supercomputing Facility – Usage Policies**

1. **Permitted Use:** The computational resources provided under the PARAM Rudra Supercomputing Facility shall be used **strictly for non-commercial academic purposes** only. This includes research projects, academic projects, National Supercomputing Mission (NSM) projects, NSM-approved MSME projects, and other scientific research activities. Any commercial use is strictly prohibited.
2. **Account Security and Credential Sharing:** Users must not share their login credentials with any third party. In case of credential sharing, the PARAM Rudra Administration Committee shall not be responsible for any data theft or misuse. The user's account will be disabled immediately, and the third party involved will also be held accountable for misuse of the facility.
3. **Usage of Login Nodes:** Users are strictly prohibited from running computational jobs on the login nodes. Any such job will be terminated immediately. Repeated violations will lead to suspension or permanent closure of the user account.
4. **Project Lifecycle Responsibility:** Users are responsible for informing the PARAM Rudra Administration about project completion, project cancellation, and for migrating or copying all project-related data from the facility in a timely manner.
5. **Password Management:** Users are solely responsible for maintaining strong, secure passwords and for safeguarding their login credentials at all times.
6. **Prohibited Activities:** Any involvement in or promotion of activities such as hacking, reverse engineering, unauthorized access, or violation of intellectual property rights while using the PARAM Rudra Facility is strictly prohibited. Such violations will result in permanent debarment from accessing any supercomputing facility under the **National Supercomputing Mission (NSM)**.
7. **Availability and Maintenance:** The facility is designed to ensure minimal downtime; however, availability may be affected by factors such as hardware failures, power outages, network disruptions, or scheduled maintenance. Notifications regarding scheduled or unscheduled maintenance will be communicated through official channels including the website, email, broadcast messages, or newsgroups.
8. **Restricted Research Domains:** The facility shall not be used for any purpose related to the development, design, or promotion of chemical, biological, or nuclear weapons, or missile systems capable of delivering such weapons.
9. **Acknowledgement Requirement:** Users must acknowledge the usage of the PARAM Rudra Supercomputing Facility in all publications and outcomes resulting from work carried out using the facility.

#### **Performa for Acknowledging the usage:**

*We acknowledge the National Supercomputing Mission (NSM) for providing access to the "PARAM Rudra" supercomputing facility at the Indian Institute of Technology Patna. This facility is implemented by the Centre for Development of Advanced Computing (C-DAC) and supported by the Ministry of Electronics and Information Technology (MeitY) and the Department of Science and Technology (DST), Government of India.*

Also, please submit the copies of dissertations, reports, reprints and URLs in which “National Supercomputing Mission, Government of India” is acknowledged to:

**HoD, HPC Technologies,**  
Centre for Development of Advanced Computing,  
CDAC Innovation Park,  
S.N. 34/B/1,  
Panchavati, Pashan,  
Pune – 411008  
Maharashtra

Email: [rudrasupport@iitp.ac.in](mailto:rudrasupport@iitp.ac.in)

Communication of achievements resulting from the use of resources provided under the **National Supercomputing Mission (NSM)** will assist the Mission in evaluating outcomes and assessing future requirements. Such reporting will also support informed planning and further augmentation of computing resources at the respective NSM facility.

I hereby acknowledge that I have read, understood, and agree to abide by the above-mentioned usage policies, terms, and conditions.

**User’s signature**

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Recommended/Not Recommended

**Signature and seal of HoD/Head of Organization:**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Official Email address: \_\_\_\_\_

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**Only for Official Use**

**Approving Authority for NSM**

Verified by:

Approving Authority:

Approved/Not Approved

Remarks: \_\_\_\_\_

Name, Signature and seal of approving authority

Information required for NSM (National Supercomputing Mission) users Domain(s)\*:

Sub-domain(s)\*:

Application name(s)\*:

(Indicative list of Domains and some of its applications)

<b>Domain Name</b>	<b>Application Name</b>
Astronomy & Astrophysics	ATHENA, CosmoMC
Atomic & Molecular Sciences	Gromacs, LAMMPS, NAMD, AMBER (Open Source)
Computational Biology	Biopython
Bioinformatics	mpiBlast, Clustaw- MPI, Fasta, Artemis, T-coffee
Chemical Sciences	Gromacs, LAMMPS, NAMD
Climate & Environment Sciences	MOM, Weather Research Forecasting model (WRF), COSMO
Computational Fluid Dynamics	OpenFoam, Tycho, Gerris flow Solver
Computational Physics	OOFEM
Computational Sciences	Gromacs, LAMMPS, NAMD, AMBER (open source)
Data analytics	RStudio, Apache Spark
Geological Sciences	Ferret
Data Visualization	GRADS, Ferret, ParaView
Material Sciences	Quantum Espresso, Q-chem
Quantum Mechanics	Abinit, NWChem, CP2K
Structural Engineering Mechanics	CODE-ASTER
AI/ML/DL	Tensorflow, Nvidia digits, pandas, numpy
Image Processing	OpenCV, Matplotlib, Scikit-image
Atmospheric/Ocean Modelling	MOM, Weather Research Forecasting model (WRF)

Please specify other application name if not listed above

(\* form may get rejected if no mandatory information is provided)