



# NATIONAL SUPERCOMPUTING MISSION

INFRASTRUCTURE | APPLICATIONS | R&D | HRD



## PARAM SHIVAY 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 Shivay & Requirement of resources: \_\_\_\_\_

---

---

---

**PARAM Shivay HPC facility usage policies:**

1. The Resources provided to you on PARAM Shivay facility should not be used for any commercial purpose i.e. it is restricted for the academic use like research projects, academic projects, NSM projects, NSM approved MSME projects and scientific projects.
2. Sharing your login credentials with some third person will revoke the responsibility of PARAM Shivay administration committee for data theft and your account will also be disabled. The third person will also be held accountable for misusing the PARAM Shivay facility.
3. It is strictly recommended that you should not run jobs on login node and any such incident reported will result in cancellation of the job and any repeat action will result in closure of your account.
4. You will be responsible for informing the PARAM Shivay administration about your project completion, project cancellation and moving or copying data related to your project from PARAM Shivay.
5. You will be solely responsible for keeping your password strong and safe.
6. If found in any engagement or promotion of activities like hacking, reverse-engineering, violating intellectual property rights on or using the PARAM Shivay facility, you will be barred from having account on any Supercomputer setup under the National Supercomputing Mission.
7. The facility is built with least downtime requirement; however, it depends on various factors like Hardware reliability, Power outage, network outage, scheduled maintenance due to which the facility could be unavailable completely/partially. Notification of all scheduled / unscheduled maintenance will be made known to the users via Website, Email, broadcast message, newsgroups etc.
8. This facility will not be used for any purpose connected with Chemical or Biological or Nuclear weapons or missiles capable of delivering such Weapons.
9. Acknowledging the usage of the facility is mandatory.

If you use supercomputers and services provided under the National Supercomputing Mission, Government of India, please let us know of any published results including Student Thesis, Conference Papers, Journal Papers and patents obtained.

**Performa for Acknowledging the usage:**

We acknowledge National Supercomputing Mission (NSM) for providing computing resources of 'PARAM Shivay' at Indian Institute of Technology (BHU), Varanasi, which is implemented by C-DAC and supported by the Ministry of Electronics and Information Technology (MeitY) and 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: [shivaysupport@iitbhu.ac.in](mailto:shivaysupport@iitbhu.ac.in)

Communication of your achievements using resources provided by National Supercomputing Mission, will help the Mission in measuring outcomes and gauging the future requirements. This will also help in further augmentation of resources at a given site of National Supercomputing Mission.

I acknowledge the above mentioned usage policies & terms and conditions.

**User’s signature**

---

Recommended/Not Recommended

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

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

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

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

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

---

**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)