



HPC ERP System

High Performance Computing Facility · IIT Kharagpur

QUICK START GUIDE

Getting Started with the HPC ERP System

A concise walkthrough of registration, cluster access requests, and day-to-day account management on the PARAM Shakti HPC portal.

 For Faculty

 For Students

 hpc.iitkgp.ac.in/app

1.66 PFLOPS
Compute

442
Nodes

2 PB
Storage

Contents

Follow these sections in order the first time you use the portal — after that, jump straight to what you need.

1	Getting Started & Signing In	ALL USERS
2	Creating Your Account — Faculty	FACULTY
3	Creating Your Account — Student	STUDENTS
4	Verifying Your Email	ALL USERS
5	Your Dashboard	ALL USERS
6	Applying for Cluster Access	ALL USERS
7	Managing Your Profile & Password	ALL USERS
8	Reviewing Student Requests	FACULTY
9	Getting Help	ALL USERS

ⓘ Some screens in this guide are shown with illustrative sample data (e.g. "Priya Sharma", "Arjun Verma") so you can see a completed example — replace these with your own real details when registering.

1

Getting Started & Signing In

ALL USERS

The **HPC ERP System** is the single portal for registering an account, requesting PARAM Shakti cluster access, and managing your HPC profile. It is available at hpc.iitkgp.ac.in/app. If you already have an account, sign in with your registered email and password below.

 **HPC ERP System** · IIT Kharagpur — PARAM Shakti

Welcome back

Sign in to your PARAM Shakti account

Email address

you@iitkgp.ac.in

Password

Your password

👁

[Forgot password?](#)

Continue ➔

New user? **Faculty** · **Student**

1.66 PFLOPS
COMPUTE

442
NODES

1 PB
STORAGE

The sign-in screen — new users click "Faculty" or "Student" under "New user?" to start registration.

- ✓ Use the email address you plan to register with — institute email (@*.iitkgp.ac.in) or a Gmail address are both accepted.
- ✓ Forgot your password? Use the "Forgot password?" link — a one-time code is emailed to you to reset it.
- ✓ New to the portal? Continue to Section 2 (Faculty) or Section 3 (Student) below.

Fill in the registration form completely and accurately – your Department, Employee ID, and contact details are verified during account approval.


HPC ERP System • IIT Kharagpur

Faculty Registration

Create your HPC facility account

PERSONAL DETAILS

Title *

Full Name *

Do not use prefixes (Mr., Mrs., Dr., Prof., etc.)
— enter your name only.

Email *

Allowed: @*.iitkgp.ac.in, @gmail.com

Employee ID *

5 digits (e.g. 12345) or T + 3 digits (e.g. T123)

Phone *

Gender

Date of Joining *

Date of Retirement

DEPARTMENT & RESEARCH

Department *

Domain *

Sub-domain

Project Name / Title of the proposed work

Brief Justification for Using HPC *

Have you used any HPC server/facility before? *
☒ Yes ☐ No

Software Requirements

PyTorch (Open Source, Parallel) x

Open Source
Serial
+

ACCOUNT

Password *

Confirm Password *

STRONG

☒ At least 8 characters
 ☒ Lowercase letter (a-z)
 ☒ Special character (!@#\$...)
 ☒ No 3+ repeated characters (aaa, 111...)

☒ Uppercase letter (A-Z)
 ☒ Number (0-9)
 ☒ No sequential characters (abc, 123, qwe...)

Submit Registration

Back to Login

1.66 PFLOPS
COMPUTE

442
NODES

2 PB
STORAGE

Faculty Registration – Personal Details (left) and Department & Research (right).

- ✓ **Employee ID** must be either 5 digits (e.g. 12345) or "T" followed by 3 digits (e.g. T123) – the field checks the format as you type.
- ✓ **"Have you used any HPC server/facility before?"** is required – select Yes or No.
- ✓ **Software Requirements** is optional – list any specific applications or libraries your work depends on.

✔ Your **password** must satisfy all 7 rules shown below the field (length, case, digit, special character, no sequences/repeats) before you can submit.

Student accounts require a sponsoring **PI (Principal Investigator) / Guide / Advisor / Supervisor** – your application is routed to them for approval before it reaches the admin team.


HPC ERP System • IIT Kharagpur

Student Registration

Create your HPC facility account

PERSONAL DETAILS

Title *

Full Name *

Do not use prefixes (Mr., Mrs., Dr., Prof., etc.)
– enter your name only.

Email *

Allowed: @*.iitkgp.ac.in,
@gmail.com

Roll Number *

Valid IIT KGP roll number format
 (e.g. 21CS10A15, 20CS10001,
J20190328, PDF2025005)

Phone *

Gender

Date of Joining *

Degree Registered / Designation *

Duration for HPC Access (years) *

Software Requirements

TensorFlow (Open Source, Parallel) ×

Open Source

Serial

+

DEPARTMENT, PI & RESEARCH

Department *

PI / Guide / Advisor / Supervisor *

Domain *

Sub-domain

Project Name / Title of the proposed work

Brief Justification for Using HPC *

Have you used any HPC server/facility before? *
☐ Yes ☒ No

ACCOUNT

Password *

Confirm Password *

STRONG

☒ At least 8 characters
☒ Lowercase letter (a–z)
☒ Special character (!@#\$...)

☒ No 3+ repeated characters (aaa, 111...)

☒ Uppercase letter (A–Z)
☒ Number (0–9)
☒ No sequential characters (abc, 123, qwe...)

Submit Registration

Back to Login

1.66 PFLOPS
COMPUTE

442
NODES

2 PB
STORAGE

Student Registration – note the PI selector and Roll Number format checker.

- ✓ **Roll Number** accepts several real IIT KGP formats (e.g. 21CS10A15, 20CS10001, J20190328, PDF2025005) – the field checks the format as you type.
- ✓ **PI / Guide / Advisor / Supervisor** – select your registered faculty guide from the list; this determines who approves your account first.

- ✔ **Duration for HPC Access** is a whole number of years from 1 to 5.
- ✔ Password rules and the optional Software Requirements list work exactly as in Faculty registration (Section 2).

After submitting registration, a 6-digit one-time code (OTP) is emailed to the address you registered with. Enter it to complete your account creation.

 **HPC ERP System** · IIT Kharagpur — PARAM Shakti

 **Verify Your Email**

A 6-digit OTP was sent to **dem***@gmail.com**
Enter it below to complete registration.

Expires in 14:59

 **Verify OTP**

Resend (59s)

[← Back to form](#)

1.66 PFLOPS
COMPUTE

442
NODES

1 PB
STORAGE

The OTP is valid for 15 minutes; you can request a new one after a 60-second cooldown.

ⓘ Your account is not created until the OTP is verified. If the code expires, use "Resend" rather than starting the registration form over.

5 Your Dashboard

ALL USERS

Once your account is approved, the Dashboard is your home screen — it summarizes your account status, validity period, and cluster applications at a glance.

FACULTY DASHBOARD

**HPC ERP System** IIT
KHARAGPUR

Dashboard

STUDENTS

My Students

Pending Approval

STUDENT CLUSTER REQUESTS

New Cluster Requests1

Extension Requests

MY CLUSTERS

Apply for Cluster

My Applications

ACCOUNT

My Profile

DD

Dr. Demo Faculty

Faculty

HPC ERP System > Dashboard

DD Dr. Demo Faculty

Dashboard

ACCOUNT STATUS

● approved

VALID UNTIL

06 Jul 2028

ACTIVE CLUSTER ACCESS

1

MY STUDENTS

2

MY CLUSTER APPLICATIONS

View all

CLUSTER	STATUS	APPLIED	END DATE
shakti	● approved	07 Jul 2026	06 Jul 2028

HPC ERP System | v1.5.2 © 2026 — High Performance Computing Facility, IIT Kharagpur

Developed by Debraj Biswas

Faculty additionally see a "My Students" count and can manage students they supervise.

5

Your Dashboard (continued)

STUDENTS

STUDENT DASHBOARD

HPC ERP System IIT
KHARAGPUR

Dashboard

CLUSTERS

Apply for Cluster

My Applications

ACCOUNT

My Profile

DS

Demo Student One
Student

HPC ERP System > Dashboard

DS Demo Student One

Dashboard

ACCOUNT STATUS

approved

VALID UNTIL

06 Jul 2027

ACTIVE CLUSTER ACCESS

0

MY CLUSTER APPLICATIONS

View all

CLUSTER	STATUS	APPLIED	END DATE
shakti	forwarded to faculty	07 Jul 2026	06 Jul 2027 (req)

DS

Demo Student One
Student

HPC ERP System | v1.5.2 © 2026 — High Performance Computing Facility, IIT Kharagpur

Developed by Debraj Biswas

Students see their own account status and cluster application progress, including when it's forwarded to their PI.

- ✓ **Account Status** reflects your current approval state (pending, approved, etc.).
- ✓ **Valid Until** shows your account's expiry date — request an extension before this date from My Profile (Section 7).
- ✓ **Active Cluster Access** counts clusters you currently have approved access to.

HPC ERP System — Quick Start Guide · IIT Kharagpur

6

Applying for Cluster Access

ALL USERS

Having an approved account does not automatically grant cluster access — apply separately from "Apply for Cluster" in the sidebar.

APPLY FOR CLUSTER ACCESS

Apply for Cluster Access

NEW APPLICATION

Cluster *

— Select cluster —

Requested Access End Date *

dd-mm-yyyy

Submit Application

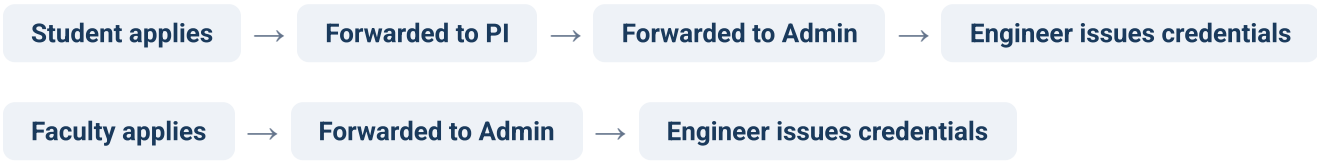
MY APPLICATIONS

My Applications

New Application

CLUSTER	STATUS	APPLIED	END DATE	
shakti	approved	07 Jul 2026	06 Jul 2028	Request Extension Reset Password

Approval chain:



From "My Applications" you can also request a **validity extension** or a **cluster password reset** once you have approved access — both go through the same review process as a new application.

Request Cluster Access Extension

Current access ends **06 Jul 2028**. Choose the new end date you're requesting — it will go through the same approval process as a new application.

New Requested End Date *

dd-mm-yyyy

Cancel

Submit Request

Requesting an extension to existing cluster access.

HPC ERP System — Quick Start Guide · IIT Kharagpur

7 Managing Your Profile & Password

ALL USERS

"My Profile" shows your full account record and lets you request a validity extension or change your login password.

HPC ERP System > My Profile

DD Dr. Demo Faculty

DD

•faculty

demo.faculty@cse.iitkgp.ac.in · Computer Science and Engineering

•approved

•demofac

ACCOUNT DETAILS

HPC ID	VALID UNTIL	PHONE
demofac	06 Jul 2028	9830000001
GENDER	EMPLOYEE ID	DATE OF JOINING
Male	FAC9001	01 Jul 2018
DATE OF RETIREMENT	DOMAIN	SUB-DOMAIN
—	Machine Learning	Computer Vision
PROJECT CODE		
—		
SOFTWARE		
—		
JUSTIFICATION		
—		

REQUEST VALIDITY EXTENSION

Requested Valid Till *

dd-mm-yyyy

Request Extension

CHANGE PASSWORD

Current Password *

New Password *

Confirm New Password *

Change Password

My Profile — account details, extension request, and password change all in one place.

⚠ Your **cluster** password (used to SSH into PARAM Shakti) is separate from your **portal** login password — cluster credentials are always emailed to you directly by the engineering team, never shown on this page.

8

Reviewing Student Requests

FACULTY ONLY

As a PI, you review two things for the students who list you as their guide: their **account registration** and their **cluster access requests**.

PENDING STUDENT APPROVALS

Pending Student Approvals

USER	ROLE	DEPARTMENT	STATUS	JOINED	ACTIONS
DS Demo Student Two demo.student2@cse.iitkgp.ac.in	•student	Computer Science and Engineering	• forwarded to faculty	07 Jul 2026	✓ Approve ✗ Reject

Approve or reject a student's account registration — approving forwards it to the admin team for final sign-off.

NEW STUDENT CLUSTER REQUESTS

New Student Cluster Requests

STUDENT	CLUSTER	REQUESTED END	APPLIED	ACTIONS
DS Demo Student One demostu1	shakti	06 Jul 2027	07 Jul 2026	✓ Forward ✗ Reject

Forward a student's cluster access request to the admin team, or reject it with a reason.

MY STUDENTS

My Students

STUDENTS BY CLUSTER

No approved cluster access yet

Once your students are granted cluster access, the breakdown will show here.

ALL STUDENTS

USER	ROLE	DEPARTMENT	STATUS	VALID TILL
DS Demo Student One demostu1	•student	CS	• approved	06 Jul 2027

A full list of every student registered under you, with their current status and validity.



Getting Help

ALL USERS

If you run into an issue this guide doesn't cover, reach out through any of the channels below.



Email
hpc@iitkgp.ac.in
shaktisupport@iitkgp.ac.in



Phone
+91 32222 82229



Support Ticket
Raise a ticket for existing-user issues at
paramshakti.iitkgp.ac.in/support

For general facility announcements and updates, check the **Notice board** on the public site, linked from the announcement bar on every page.

⇒ Portal: hpc.iitkgp.ac.in/app · Public site: hpc.iitkgp.ac.in