जवाहरलाल नेहरु उन्नत वैज्ञानिक अनुसंधान केंद्र
(विज्ञान एवं प्रौद्यौगिकी विभाग, भारत सरकार की स्वायत्त संस्थान - मान्यताप्राप्त विश्वविद्यालय)
Jawaharlal Nehru Centre for Advanced Scientific Research
(An Autonomous Institute under Dept. of Science & Technology, Govt. of India – A Deemed University)
जक्कूरुपरिसर, बेंगलूरु - 560 064, भारत/ Jakkur Post, Bengaluru - 560 064, INDIA

Advt.No.02/NSM/2026-27 **Date: 27.08.2026**

Applications are invited from the eligible candidates for the following technical positions to be filled on contract basis to work under the National Supercomputing Mission (NSM) Project, JNCASR:

1. **System Administrator (1 Post)** Consolidated remuneration of approximately Rs.40,000/- p.m., (which includes HRA) based on relevant qualifications and experience. Age limit is 35 years. Annual increments as per the norms.

Position Overview

The position involves day-to-day Linux system administration tasks on the NSM HPC clusters PARAM Yukti and Malaigae system, including user management, job scheduler support, and cluster node monitoring. The candidate must be willing to work flexible hours and relocate closer to the campus if required.

Essential Qualifications

- BE/B.Tech or equivalent degree in CSE / ECE / EEE / IT with 2–4 years of hands-on Linux system administration experience.
- Proficiency in shell scripting (Bash) and familiarity with Linux command-line tools for system monitoring and administration.

Desirable Qualifications

- Working knowledge of HPC cluster management tools: Slurm/PBS, xCAT, Lmod/Environment Modules.
- Familiarity with LDAP-based user authentication and provisioning.
- Experience with InfiniBand networking, Lustre filesystem, or NFS.
- C-DAC's PG Diploma in IT Infrastructure, System and Security / Post Graduate Diploma in HPC System Administration.
- Basic scripting for automation of repetitive system administration tasks.

Roles & Responsibilities

- User account management on PARAM Yukti and Malaigae system: creating and provisioning accounts using automation scripts (e.g., rhino.sh), adding Slurm accounts via sacctmgr, configuring home directories, and generating user onboarding documents.
- Password management across login and compute nodes using standard tools (passwd, chpasswd) and cluster-wide utilities (xdsh).
- First-level support for Slurm job submission issues: diagnosing failed jobs, checking node states (sinfo, squeue), and identifying GPU/resource misconfiguration.
- Cluster node health monitoring: verifying compute node availability, checking IB link status, monitoring filesystem mount health (Lustre/NFS), and reporting anomalies to the HPC Facility Manager.
- Assisting in the installation and basic configuration of scientific software modules; maintaining Lmod module files and rebuilding the spider cache as needed.
- Supporting hardware-level tasks under the direction of the HPC Facility Manager: node rebooting, IPMI checks, and physical verification of cable/network connectivity.
- Maintaining accurate records of user accounts, job submissions, and system events; contributing to monthly usage and operational reports.
- Providing first-level researcher support: answering queries on job submission, software availability, and data storage policies.
- Documenting standard operating procedures (SOPs) for routine administration tasks to support continuity and knowledge transfer.

Interested candidates are required to send a scanned copy of the duly filled in Template (available on the website) along with scan copies of original testimonials in support of educational qualification, age, experience, etc. with a brief resume to **NSM Project through email: nsmadmin@jncasr.ac.in latest by 06, September 2026.**

Note:

1. Shortlisted candidates may be invited for in person interview.
2. No TA/DA will be paid for attending the interview in person.
3. Online interviews will be considered in special circumstances.
4. Candidates are required to provide their Skype ID, email address and mobile number.