

# **S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES**

*Block JD, Sector III, Salt Lake, Kolkata 700 106*

## **ADVERTISEMENT**

Ref.No. SNB/Advt/25-26/020

7<sup>th</sup> March, 2026

S. N. Bose National Centre for Basic Sciences, an autonomous institute funded by Department of Science and Technology, Government of India, invites applications from Indian Nationals for purely on **contractual basis** for the position of **Senior Project Associate** (to be hired through manpower agency) for management of a large-scale HPC facility.

The position involves management of a large scale HPC facility, along with supervision of data centre, interfacing with users and service providers, and organizing training programmes for the user community.

**Essential Qualification:** BE/ B. Tech/ MCA/ M. Sc/ MTech. in Computer Science/ Electrical/ Electronics/ IT/ Electrical & Electronics or equivalent with **Linux system administration experience of a minimum of four years with below details:**

### **Essential Experience:**

- Expert-level knowledge and hands-on experience with Linux operating systems, including system configuration, performance tuning, troubleshooting, Bash scripting, and comprehensive user management workflows.
- Expert-level knowledge of job scheduling and workload management systems, with a strong focus on SLURM, PBS. including in-depth understanding of its internal mechanisms such as QoS, accounting and billing, fair-share policies, resource allocation, reservations, and scheduling optimization.
- Expert-level knowledge of networking infrastructure relevant to HPC environments, including configuration and maintenance of high-speed interconnects between compute nodes, network segmentation, firewall setup, and secure external access and authentication mechanisms.

- Expert-level proficiency in Python, with demonstrated experience in developing tools, utilities, and automation scripts for system administration, monitoring, and workflow optimization in HPC environments.
- Proven experience in installation, maintenance, and deployment of software environments on HPC systems, including compilers, libraries, MPI stacks, containerized environments, and user-facing scientific software.
- Experience in designing and setting up user interfaces and tools (web-based or command-line) to facilitate efficient user interaction with HPC systems, job submission, monitoring, and resource management.
- Strong experience in automation of large-scale administrative tasks, including system provisioning, configuration management, monitoring, reporting, and maintenance activities across distributed HPC infrastructure.
- Onsite System Engineer should provide end-to-end technical support and resolve any software and hardware problems related to servers and storage.

**Desirable:** A certified course in system administration (RHCE or equivalent OR C-DAC's PG Diploma in IT Infrastructure, System and Security/Post Graduate Diploma in HPC System Administration). Experience with installing and optimizing large scale scientific application software

**Roles & Responsibilities:** Management and maintenance of sophisticated high-performance computing (HPC) platforms (computer clusters), developing scripts for task automation, maintenance of Linux based PCs which are used in a scientific computing. Coordination and maintenance of other technical infrastructure (such as air conditioners and UPS) belonging to NSM. Preparation and maintenance of technical summaries related to the facilities. The selected candidates will also assist scientific users in the optimal use of computing resources, through installation and optimized compilation of scientific software, educating the users on the usage of shared resources effectively with job manager. Candidates are expected to contribute to the development and porting of large numerical codes to carry out scientific computation.

Interested candidates may apply to the Registrar, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, Kolkata 700106 with comprehensive resume complete in all respects mentioning the salary presently drawn along with photocopy of the following documents a) proof of age, b) educational, professional qualifications & experience, c) present salary certificate, so as to reach within **21<sup>st</sup> March, 2026**. The envelope should be superscripted with the words "**Application for the position of Senior Project Associate**". A Soft copy of application with CV and all relevant documents as mentioned above should be mailed to [registrar@bose.res.in](mailto:registrar@bose.res.in) with a copy to [paramrudra@bose.res.in](mailto:paramrudra@bose.res.in)

**Consolidated remuneration: Rs. 53,340 /- per Month.**

**Age limit: Maximum 40 years** as on the date of advertisement.

**Tenure of Appointment:** Initially for one year, likely to be extended annually, depending on performance and evaluation.

Incomplete applications will be rejected.

Sd/-  
Registrar