NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
P. O. SRINIVASNAGAR, MANGALURU - 575025, DAKSHINA KANNADA

Reference No. : 5213-NITK-NTR/Admin.Estt./2025/B1   Date : 26-05-2025

Provisional Result of Scrutiny of Applications for post of Principal Scientific / Technical Officer

Advertisement Ref No. : 5213-NITK-NTR/Admin.Estt./2025/B1, dated 07-01-2025

With reference to the recruitment rules / criteria which is appended in this document, the provisional result of scrutiny of applications for the post of Principal Scientific / Technical Officer is published on the basis of the information submitted in the application and the supporting documentary evidence provided by the applicant.

The list of application numbers of the candidates who are eligible to participate in the presentation and interview process which will be held in the month of June – July 2025 is published herewith.

This provisional result of scrutiny of applications is subjected to the candidate fulfilling the following conditions:

(1) The candidate has gone through the eligibility criteria published in the recruitment notification such as age, educational qualifications, experience, other requirements of statutory certificates and documents for the post applied by the candidate.

(2) After ascertaining that the candidate is in possession of all original documents to which are required to establish meeting the eligibility criteria for the post applied by him /her, the candidate has submitted the application.

(3) The candidate is aware that his/her participation in the recruitment process is subject to verification of all original documents by NITK authorities.

(4) The candidate is aware that it is his/her responsibility to submit the required original documents to NITK authorities establishing his/her candidature meeting the eligibility criteria for the post.

(5) The candidate is aware that, in the event of failure to establish his /her candidature meeting the eligibility criteria, his /her candidature will be cancelled by NITK authorities at any stage of recruitment process.

(6) In such an event of cancellation of his/her candidature by NITK authorities for any reason, the candidate is aware that fees paid by the candidate will be forfeited and the candidate will not hold NITK liable from administrative, financial and legal matters in this regard.

The call letters with detailed instructions and schedule of presentation and interview at NITK, Surathkal will be communicated in due course.

[Note: The remaining applicants have not established their candidature because of non-satisfying one or more eligibility criteria such as age, educational qualifications, experience, other requirement of statutory certificates and hence are not eligible to participate in the recruitment process]

Sd/-
Dean (Faculty and Staff
Welfare), NITK Surathkal

Syllabus for Presentation and Interview

- **The candidate is required to make a 10-minute presentation (using maximum 8 slides) about their work experience, including a case study of relevant project or initiative.**
- **The presentation will be followed by a personal interview, and the performance of the candidate will be assessed comprehensively based on both presentation and interview.**

- **Administrative components (Common to PSO and PTO)**

RTI act 2005, Public financial management system, Sexual harassment of Women at workplace act 2013, NEP 2020, Fire & Safety rules, Letter/email drafting skills, Data Communication skills, Decent computer skills, including security, data transmission

Principal Scientific Officer (PSO)

- **Technical components**

AMC and CAMC of equipments, Electrical requirements of equipments, Sample life cycle assessment, NABL accreditation requirements, Vacuum creation and measurements, Temperature measurements, Data plotting and analysis (using MATLAB/ORIGIN,), Image analysis, Basics of operation, data interpretation and technical details of (FEGSEM, XRD, AFM, GDOES, OES, NMR, HRLCMS, GCMS, Photo luminescence spectrometer, Metal 3D printer, Profilometer, UV Visible spectrometer)- Sample storage systems, Sample preparation for (FEGSEM, XRD, AFM, GDOES, OES, NMR, HRLCMS, GCMS, Photo luminescence spectrometer, Metal 3D printer, Profilometer, UV Visible spectrometer), Liquid nitrogen systems, Noting and Drafting

Principal Technical Officer (PTO)

- **Technical components**

Database Design & Architecture: Database Fundamentals, Relational and non-relational databases, Design of efficient and scalable database schemas, SQL (queries, indexing, and optimisation, maintaining data integrity and availability).

Server Infrastructure: Server setup, and maintenance, Web server infrastructure management, configuration and monitoring of Nginx, Strategies for horizontal and vertical scaling.

Security Management: Managing Access Control, Data Protection Regulations and compliance standards, Handling security breaches and implementing preventive measures, Best practices for securing data at rest and in transit.

API Integration: Understanding RESTful APIs, GraphQL, and SOAP, Techniques for integrating internal and external third- party services, Working with OAuth, API keys, and token-based authentication, Familiarity with tools like Postman and Swagger, API documentation.

Containerisation & Orchestration: Docker (Basics of containerisation, creating Docker images, and managing containers), Kubernetes (architecture, deployment, and scaling applications), Continuous integration and deployment strategies (CI/CD).

Mobile Application Development: Proficiency in Java and Kotlin programming languages, Android SDK and development tools like Android Studio, Flutter, UI/UX design principles, Android lifecycle management &state handling, Testing frameworks (Espresso, Junit).

Other skills: Tools for System Performance Monitoring, Diagnosing and resolving backend and infrastructure issues, Log management, Optimising server and application performance.

Recruitment Rules (2019) for the post of PRINCIPAL SCIENTIFIC OFFICER / PRINCIPAL SCIENTIFIC / TECHNICAL OFFICER (GENERAL / ICT / RESEARCH) in NITs

Sl.No.	Particular	Criteria
1.	Name of the Post	**Principal Scientific Officer / Principal Technical Officer**
2.	Number of Post(s)	As per sanctioned strength.
3.	Classification	Group - A
4.	Scale of Pay (Grade Pay, Band Pay)	PB: 4 (Rs.37,400 - 67,000/-) with Grade Pay of Rs.10000/-. ##
5.	Whether Selection Post or non-Selection Posts	Selection
6.	Age limit for direct recruits	56 years
7.	Educational and other qualifications required for direct recruits	**Educational Qualification & Experience:** **Essential:** **Educational Qualification:** B.E./ B.Tech. or M.Sc./ MCA Degree in relevant field with first class or equivalent grade (6.5 in 10 point scale or 60% marks) and consistently excellent academic record. **Experience:** At least 15 years experience as Scientific Officer / Technical Officer or an equivalent post or above out of which at least 8 years experience as Sr. Scientific Officer / Sr. Technical Officer in PB-3 with GP of Rs.7600/- or an equivalent post in Central / State Government Department / Autonomous Bodies / University / Institution of national importance / PSU etc.
8.	Whether age and educational qualifications prescribed for direct recruits will apply in the case of promotees	Not applicable
9.	Period of probation, if any	1 year as per NIT Statutes for direct recruits.
10.	Method of Recruitment whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	100% Direct Recruitment failing which by deputation / contract.

Sl.No.	Particular	Criteria
11.	In case of recruitment by promotion / deputation / transfer, grades from which promotion / deputation / transfer to be made	**Deputation :** Officers from the Central/State Governments or Institute of national importance or Universities/University level Institution or PSU : a) i) holding analogous post or ii)With at least 3 years service in posts with Grade Pay of Rs.8700 or at least 8 years' service in posts with GP of Rs.7600/- or its equivalent. and b) Possessing educational qualification as prescribed in Row 7.
12.	If DPC exists, what is its composition	Not applicable.
13.	Circumstances in which UPSC is to be consulted in making recruitment	Not Applicable

Subject to creation of post if not sanctioned in the past.

The list of application number of the candidates who have been shortlisted for presentation and interview for Principal Scientific / Technical Officer Post

PSTO/23/2025-26/0021	PSTO/23/2025-26/0025	PSTO/23/2025-26/0033	PSTO/23/2025-26/0062	PSTO/23/2025-26/0092
PSTO/23/2025-26/0109	PSTO/23/2025-26/0348	PSTO/23/2025-26/0397		