



सी.एस.आई.आर.-राष्ट्रीय भौतिक प्रयोगशाला  
**CSIR-NATIONAL PHYSICAL LABORATORY**  
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)  
(Council of Scientific & Industrial Research)  
डॉ. के.एस. कृष्णन् मार्ग, नई दिल्ली - 110012  
Dr. K.S. Krishnan Marg, New Delhi - 110012



**Advertisement No.Rectt./01/2024**  
**“WALK-IN-INTERVIEW TO BE HELD ON 30/01/2024 & 31/01/2024”**

CSIR-NPL, New Delhi (a constituent laboratory of CSIR) desires to recruit qualified incumbents for purely temporary and contractual positions under the various ongoing externally funded & time targeted sponsored projects, the details of which are given below:-

***Day-1 (Walk in Interview for the post code 1.0 to 10.0 will be held on 30<sup>th</sup> January, 2024)***

| Post code | Post & No. of positions    | Essential Educational Qualification | Desirable  | Job description   | Project /Scheme Title  | Tenure of project & Emoluments/ stipend per month                   | Age as on 30/01/24 |
|-----------|----------------------------|-------------------------------------|--|---|--|---|--------------------|
| 1.0       | Project Assistant Six (06) | Three Year Diploma in CS/IT         | Well proven work experience in LAN, WAN, H/W maintenance, basic programming skills, C++, JAVA. Having good knowledge of English. | (a). The selected candidate will undergo training at ISRO Navigation Centre, Byalalu, Bengaluru. Candidate needs to stay at Bengaluru during the training period.<br>(b). Candidates are required to specify their preferred work city from the following options: Ahmedabad, Bengaluru, Bhubaneswar, Faridabad, and Guwahati, in their applications.<br>(c). Following the training period, candidates will be assigned to CSIR-NPL Delhi, DRC Bengaluru, or any of the five RRSLs located in Ahmedabad, Bengaluru, Bhubaneswar, Faridabad, and Guwahati, based on project requirements and the indicated city preference in their application.<br><b>Place of Posting:</b> Bengaluru (for training), and subsequent postings based on project requirements and the candidate's specified city preference. | “Development of timing laboratories of Legal Metrology Department (LM) traceable to National Time Scale generating IST at five locations and creation of one disaster recovery center” | Rs 20,000/-+ HRA<br><br>(up to 31.03.2024)<br>Likely to be extended | <b>50 Years</b>    |

|     |                              |  |   |  |  |  |                 |
|-----|------------------------------|--|---|--|--|--|-----------------|
| 2.0 | Project Associate-I One (01) | <p>B.Tech / BE in ECE /ETE / Instrumentation / EEE or equivalent with CSIR-UGC NET including Lectureship or valid GATE</p> <p style="text-align: center;"><b>OR</b></p> <p>B.Tech / BE in ECE /ETE / Instrumentation / EEE or equivalent</p> | Well proven work experience in engineering projects related to automation, telecommunications, instrumentation, or electronics. | <p>(a). The selected candidate will undergo training at ISRO Navigation Centre, Byalalu, Bengaluru. Candidate needs to stay at Bengaluru during the training period.</p> <p>(b). Candidates are required to specify their preferred work city from the following options: Delhi Ahmedabad, Bengaluru, Bhubaneswar, Faridabad, and Guwahati, in their applications.</p> <p>(c). Following the training period, candidates will be assigned to CSIR-NPL Delhi, DRC Bengaluru, or any of the five RRSLs located in Ahmedabad, Bengaluru, Bhubaneswar, Faridabad, and Guwahati, based on project requirements and the indicated city preference in their application.</p> <p><b>Place of Posting:</b> Bengaluru (for training), and subsequent postings based on project requirements and the candidate's specified city preference.</p> | “Development of timing laboratories of Legal Metrology Department (LM) traceable to National Time Scale generating IST at five locations and creation of one disaster recovery center” | <p>Rs. 31,000/-+ HRA<br/>(up to 31.03.2024)<br/>Likely to be extended .</p> <p style="text-align: center;"><b>OR</b></p> <p>Rs. 25,000/-+ HRA<br/>(up to 31.03.2024)<br/>Likely to be extended .</p> | <b>35 Years</b> |
| 3.0 | Project Associate-I Two (02) | <p>B.Tech / BE in Computer Science / AI / ML or equivalent with CSIR-UGC NET including Lectureship or valid GATE</p> <p style="text-align: center;"><b>OR</b></p> <p>B.Tech / BE in Computer Science / AI / ML or equivalent</p>             | Well proven work experience in engineering projects related to automation, telecommunications, instrumentation, or electronics. | <p>(a). The selected candidate will undergo training at ISRO Navigation Centre, Byalalu, Bengaluru. Candidate needs to stay at Bengaluru during the training period.</p> <p>(b). Candidates are required to specify their preferred work city from the following options: Delhi Ahmedabad, Bengaluru, Bhubaneswar, Faridabad, and Guwahati, in their applications.</p> <p>(c). Following the training period, candidates will be assigned to CSIR-NPL Delhi, DRC Bengaluru, or any of the five RRSLs located in Ahmedabad, Bengaluru, Bhubaneswar, Faridabad, and Guwahati, based on project requirements and the indicated city preference in their application.</p> <p><b>Place of Posting:</b> Bengaluru (for training), and subsequent postings based on project requirements and the candidate's specified city preference.</p> | “Development of timing laboratories of Legal Metrology Department (LM) traceable to National Time Scale generating IST at five locations and creation of one disaster recovery center” | <p>Rs. 31,000/- + HRA<br/>(up to 31.03.2024)<br/>Likely to be extended</p> <p style="text-align: center;"><b>OR</b></p> <p>Rs. 25,000/-+ HRA<br/>(up to 31.03.2024)<br/>Likely to be extended .</p>  | <b>35 Years</b> |

|     |                               |   |  |  |   |   |                 |
|-----|-------------------------------|---|--|--|---|---|-----------------|
| 4.0 | Project Associate-I One (01)  | BE / B.Tech Electronics/ Electronics & Communication Engg or equivalent with CSIR-UGC NET including Lectureship or valid GATE<br><br><b>OR</b><br><br>BE / B.Tech Electronics/ Electronics & Communication Engg or equivalent | Knowledge of Time & Frequency domain, GNSS Receivers, Programming  | Hardware / Software development and deployment work related to the project   | Implementation of IST Service using NPL controlled remote oscillator system for National Knowledge Network at National informatics Centre | Rs. 31,000/-+ HRA<br>(up to 31.03.2024)<br>Likely to be extended<br><br><b>OR</b><br><br>Rs. 25,000/-+ HRA<br>(up to 31.03.2024)<br>Likely to be extended . | <b>35 Years</b> |
| 5.0 | Project Associate-II One (01) | B.Tech/BE in ECE/ETE or equivalent and two years experience with CSIR-UGC NET including Lectureship or valid GATE .<br><br><b>OR</b><br><br>B.Tech/BE in ECE/ETE or equivalent and two years experience                       | 1. Experience in handling GNSS receivers or timing metrology<br>2. Design and fabrication of electronic circuits, testing and repair of electronic equipment, PCB soldering                                    | Design of FPGA based sub systems for the project   | Development of NavIC based IST traceable primary Reference Time Clock (PRTC)  | Rs. 35,000/-+ HRA<br>(up to 15.11.2025)<br><br><b>OR</b><br><br>Rs. 28,000/-+ HRA<br>(up to 15.11.2025)   | <b>35 Years</b> |
| 6.0 | Project Associate-II One (01) | B.Tech/BE in CSE/IT or equivalent and two years experience with CSIR-UGC NET including Lectureship or valid GATE<br><br><b>OR</b><br><br>B.Tech/BE in CSE/IT or equivalent and two years experience                           | 1.Programming languages python, C, C++, Java   | Development of required instrument software and user interface to be developed in python and java for the equipment.   | Development of NavIC based IST traceable primary Reference Time Clock (PRTC)  | Rs. 35,000/-+ HRA<br>(up to 15.11.2025)<br><br><b>OR</b><br><br>Rs. 28,000/-+ HRA<br>(up to 15.11.2025)   | <b>35 Years</b> |
| 7.0 | Project Associate-I Two (02)  | BE/B.Tech in Electronics & Communications / Physics / Computer Science / IT / Electrical / Electronics & Instrumentation.   | Selected through National Eligibility Tests-CSIR-UGC NET or GATE or a selection process through National level examination conducted by Central Government and Departments and their Agencies and Institutions | 1. Development of AI based modules for prediction of quality of grains with respect to storage<br>2. Transfer of data using wireless sensor networking, development of prototype storage environment using sensor networking | Sustainable Technologies for Assessment and Mitigation for important Nutritional & Safety Aspects of Millets                              | Rs. 25,000/-+ HRA<br>(up to 31.03.2025)   | <b>35 Years</b> |

|      |                               |   |  |  |   |   |                 |
|------|-------------------------------|---|--|--|---|---|-----------------|
| 8.0  | Project Assistant One (01)    | Three Year Diploma in Electronics and Communication Engineering (ECE)/ Electronics/ Instrumentation/ Mechanical Engineering | Experience in Design. Development of basic electronics circuits, handling of sophisticated instruments               | Integration and handling of Quantum metrology devices/Systems  | Quantum Metrology for Realization of SI Units and Allied Parameters for Boosting International Trade and Industrial Growth of the Nation Strengthening and Modernization of Metrology through Research and Technology Harmony (SAMARTH) | Rs. 20,000/- +HRA<br>(up to 31.03.2028) | <b>50 Years</b> |
| 9.0  | Project Associate-I One (01)  | B.E./B.Tech (Mechanical)  | Experience in Design, Development, Precision measurements, data acquisition and programming                          | Design and Establishment of required measurement setup, Precision measurements and analysis in various parameters for establishment of temperature standards | Fabrication, and establishment of testing and calibration facility for clinical thermometers (liquid-in-glass, electrical, and IR) with the maximum device for the five RRSLs laboratories  | Rs. 25,000/- +HRA<br>(up to 22.10.2026) | <b>35 Years</b> |
| 10.0 | Project Associate-II One (01) | Bachelor's degree in Engineering or Technology in Mechanical Engineering or equivalent and two years experience.            | Experience in designing of filtration systems and working on synthesis of carbon nanotubes and their flexible papers | Designing of systems and Day to day experimentation on CNTs and CNTs papers and their analysis   | Development of a process technology for preparation of carbon nanotube based flexible paper of size 1 meter x 1 meter   | Rs. 28,000/- +HRA<br>(up to 31.03.2025) | <b>35 Years</b> |

***Day-2 (Walk in Interview for the post code 11.0 to 17.0 will be held on 31<sup>st</sup> January, 2024)***

| <b>Post code</b> | <b>Post &amp; No. of positions</b> | <b>Essential Educational Qualification</b>   | <b>Desirable</b>   | <b>Job description</b>  | <b>Project /Scheme Title</b>  | <b>Tenure of project &amp; Emoluments/ stipend per month</b> | <b>Age as on <u>31/01/24</u></b> |
|------------------|------------------------------------|--|--|---|---|--|----------------------------------|
| 11.0             | Project Associate-I<br>One (01)    | MSc in Biochemistry/<br>Analytical Chemistry /<br>Applied Chemistry /<br>Organic / Inorganic<br>Chemistry / biotechnology  | Selected through<br>National Eligibility<br>Tests-CSIR-UGC NET<br>or GATE or a selection<br>process through National<br>level examinations<br>conducted by Central<br>Government and<br>Departments and their<br>Agencies and Institutions | Chemical analysis of food grains,<br>development of certified reference<br>materials to check the quality<br>traceability of products   | Sustainable Technologies<br>for Assessment and<br>Mitigation for important<br>Nutritional & Safety<br>Aspects of Millets  | Rs.25,000/-+ HRA<br><br>(up to 31.03.2025)                   | <b>35 Years</b>                  |
| 12.0             | Project Associate-I<br>One (01)    | Master's Degree in<br>Physics/ Applied Physics/<br>Electronics/<br>Instrumentation<br>Or<br>B.E./B.Tech in Electronics<br>or Electronics and<br>communication<br>Engineering (ECE) | Experience in Design,<br>Development, data<br>acquisition and<br>programming and<br>knowledge on<br>programming languages<br>such as C++, Java,<br>Python etc.   | Precision measurements and analysis<br>in on the realization of the unit of<br>Capacitance through AC QHR<br>method and further dissemination of<br>the same to impedance Units such as<br>AC resistance, Inductance and<br>Capacitance | Quantum Metrology for<br>Realization of SI Units<br>and Allied Parameters for<br>Boosting International<br>Trade and Industrial<br>Growth of the Nation<br>Strengthening and<br>Modernization of<br>Metrology through<br>Research and Technology<br>Harmony (SAMARTH) | Rs. 25,000/- +HRA<br><br>(up to 31.03.2028)                  | <b>35 Years</b>                  |

|      |                                 |  |  |   |   |   |                 |
|------|---------------------------------|--|--|---|---|---|-----------------|
| 13.0 | Project Associate-I One (01)    | Master's Degree in Physics / electronics / instrumentation;<br>Or<br>B.E./B.Tech in Electronics or Electronics and communication Engineering (ECE)                 | Experiences in any of the following fields: Thin film deposition techniques, nanodevice fabrication, transport measurements, device physics, Microwave engineering & instrumentation, data acquisition and interfacing | Thin film growth and Low noise electrical transport measurements in microwave environment at cryogenic temperature along with data analysis for quantum current metrology | Quantum Metrology for Realization of SI Units and Allied Parameters for Boosting International Trade and Industrial Growth of the Nation Strengthening and Modernization of Metrology through Research and Technology Harmony (SAMARTH) | Rs. 25,000/- +HRA<br>(up to 31.03.2028) | <b>35 Years</b> |
| 14.0 | Project Associate-I One (01)    | Master's Degree in Physics/ Applied Physics/ Electronics/ Instrumentation<br>Or<br>B.E. / B.Tech in Electronics or Electronics and Communication Engineering (ECE) | Experience in Design, Development, data acquisition and programming  | Precision measurements and analysis in Temperature Metrology  | Quantum Metrology for Realization of SI Units and Allied Parameters for Boosting International Trade and Industrial Growth of the Nation Strengthening and Modernization of Metrology through Research and Technology Harmony (SAMARTH) | Rs. 25,000/- +HRA<br>(up to 31.03.2028) | <b>35 Years</b> |
| 15.0 | Project Associate-I One (01)    | Master's Degree in Physics/ Applied Physics/ Electronics/ Instrumentation<br>Or<br>B.E. / B.Tech in Electronics or Electronics and Communication Engineering (ECE) | Experience in Design, Development, Precision Measurements, data acquisition and programming  | Design and Establishment of required measurement setup, Precision measurements and analysis in various parameters for establishment of temperature standards              | Fabrication, and establishment of testing and calibration facility for clinical thermometers (liquid-in-glass, electrical, and IR) with the maximum device for the five RRSLs laboratories  | Rs. 25,000/- +HRA<br>(up to 22.10.2026) | <b>35 Years</b> |
| 16.0 | Senior Research Fellow One (01) | M.Sc. (Physics/Materials Science),<br>With two years post M.Sc. research experience<br>Or<br>M.Tech. (Materials Science/ Nanotechnology/ Instrumentation)          | Knowledge of ultra-high vacuum, thin film deposition   | Design & growth of III-Nitride Semiconductors using molecular beam epitaxy & their characterizations  | High output power emitters and sensitive detectors based on AlGaN Nano-heterostructures for deep – ultraviolet radiation towards biological application   | Rs. 35,000/- +HRA<br>(up to 18.10.2026) | <b>32 Years</b> |
| 17.0 | Junior Research Fellow One (01) | M.Sc. (Physics), with minimum 55% marks and passing of CSIR/UGC-NET  | Knowledge of ultra-high vacuum, thin film deposition   | Design & growth of III-Nitride Semiconductors using molecular beam epitaxy & their characterizations  | High output power emitters and sensitive detectors based on AlGaN Nano-heterostructures for deep – ultraviolet radiation towards biological application   | Rs. 31,000/- +HRA<br>(up to 18.10.2026) | <b>28 Years</b> |

### **Instructions and information for candidates:-**

1. Eligibility Criteria: The applicant must be a citizen of India.
2. Only those Candidates who have completed the essential qualification for whom the result has been declared are eligible to apply. Result awaited/Final semester appeared or appearing/Ph.D submitted etc. are not eligible to apply for any post. Experience if required in any post should only be post-qualification experience.
3. The total duration for which Project staff could be engaged will be for the duration of each project. Where the duration of the Sponsored/Consultancy Project is less than 5 years, the services will be co-terminus with the duration of the project. There would be no automatic shifting of Project staff from one project to another. On completion of the tenure in one project, in case, one wants to apply for engagement in another project, he/she will have to go through the process of selection by submitting a fresh application under the new project. Appointment under the new project would be made only after submission of 'No Demand Certificate' and 'No Dues certificate' in the previous project and submission of resignation from the previous project. The maximum duration, for which any Project staff could be engaged in different projects taken together, will be 5 years, i.e. the total period of five years of engagement of any Project staff in different projects taken together should be counted from initial date of engagement in a project onwards. The performance of the Project staff would be reviewed periodically so that any one not found up to the mark, could be replaced. As such, the offer of appointment will be given for short duration i.e. 6- months/1 year, which may be extended further based on the recommendations of the concerned Principal Investigator (PI).
4. There would be no component of increment etc. for Project staff and the consolidated remuneration to be paid to Project staff may be called "Stipend".
5. A Candidate may apply for maximum of 02 (Two) posts. Separate application may be submitted for each post code if a candidate is desirous of applying for more than 01 (One) Post.

### **Mode of Selection:**

6. If a large number of applications are received then the Candidates will be shortlisted by a screening committee based on academic qualification and /or experience. In case of short listing done by screening committee, the committee will adopt its own criteria for bringing down the number of candidate to be called for interview.
7. In case the final certificates reflect CGPA, GPA, etc, in that case, the candidate should convert the same in to equivalent percentage as per the approved formula of the university in the application and a copy of such conversion formula must be attached alongwith the application.
8. Relaxation of age for SC/ST/ OBC /PWD /Women: Age limit for Project staff shall be as advertised with relaxation for statutory groups and women as per GOI/CSIR rules.
9. CSIR-NPL reserves the right to cancel or withdraw the Offer of engagement in case of any discrepancy found, in the candidature of any empanelled candidate at any stage.
10. Other terms & conditions will be governed as per guidelines issued by the funding agency/CSIR Hqrs., for the engagement of above Project Staff as amended from time to time.
11. The candidates will be free to answer in Hindi during interview.
12. Eligible candidates may appear together with downloaded application form duly filled-up, for "Floating (Walk-in) Interview" on the dates and areas as mentioned above between 09.00 AM to 10.00 AM (candidate will not be entertained after 10.00 AM under any circumstance) in the Auditorium of the laboratory, with complete application giving the full details inclusive of marks starting from secondary examination onwards along with latest passport size photograph, original and self attested copies of all certificates/testimonials. Candidates belonging to SC/ST/OBC/PwBD should bring copies of certificates in the proper format issued by the appropriate authority as per the latest instructions issued on the subject.

13. Incomplete/wrong information, detected at any stage, would render the candidate liable to rejection.
14. No interim communication will be allowed
15. Director CSIR-NPL reserves all the rights to cancel recruitment of any or all of the positions advertised above at any stage and reject any application without assigning any reason whatsoever.
16. Total tenure of engagement (current as well as service rendered earlier in CSIR-NPL and/or any other CSIR lab/ hqtrs. taken together), will be limited to 5 years only.
17. All those candidates who are continuing as Project Staff in CSIR-NPL labs in any project will only be considered for interview on submission of the “**No objection certificate**” from current concerned PI of the project.
18. Canvassing in any form and/or bringing any influence political otherwise will be treated as a disqualification for the post.
19. In case of false information received in the application, the competent authority will cancel the candidature of such applicant and debar for attending the interview in future.
20. Position Code will be cancelled if funds are not available in the advertised concerned project.

**Note:**

1. Candidate should go through the advertisement carefully to check their suitability in the area.
2. In case a candidate fails to produce any of the above mentioned documents/testimonials in original at the time of registration, he/she shall not be allowed to register for the further process.
3. The posts for various projects that are advertised are purely contractual. The positions advertised are provisional and subject to ascertaining the availability of funds under the respective projects before the declaration of results and issue of engagement letter.