



राष्ट्रीय भौतिक प्रयोगशाला
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. 1/2011

“FLOATING (WALK-IN) INTERVIEW ON 21ST & 22ND JUNE, 2011”

NPL, New Delhi (a constituent laboratory of CSIR) desires to have qualified incumbents for purely temporary and contractual positions "Project Assistants" under the various ongoing externally funded & time targeted sponsored projects and "Research Interns" under CSIR Diamond Jubilee Research Intern Award Scheme as given below:- (Interviews for post codes **1 to 17** will be held on **21.06.2011** and for post codes **18 to 29** will be held on **22.06.2011**).

21ST JUNE, 2011

| Post Code | Name & No. of positions | Essential Educational Qualification | Desirable | Job Description | Project/Scheme Title | Tenure of project & Emoluments/ Stipend (Fixed) Per Month | Maximum age limit as on 21.06.2011 |
|-----------|---|--|---|--|---|---|------------------------------------|
| 1.0 | Project Assistant Level-III– 01 (One) | 1 st Class M.Sc. (Physics)/ BE or B.Tech (Electrical or Electronics) with 02 years experience | Semiconductor Physics and processing | R&D on silicon solar cells | R&D on Photovoltaic and Related Applications | 31.03.2012 Rs.12000/- | 30 years |
| 2.0 | Project Assistant Level-III– 01 (One) | 1 st Class M.Sc. (Physics) with 02 years experience | Semiconductor/solar cell processing | R&D on silicon solar cells | R&D on Photovoltaic and Related Applications | 31.03.2012 Rs.12000/- | 30 years |
| 3.0 | Project Assistant Level-II-01 (One) | 1 st Class M.Sc (Physics) | Knowledge about XPS, MBE | Work on MBE for GaN growth and its characterization XPS systems. | Fabrication of LED Devices and Systems for solid state lighting application | 31.03.2012 Rs.10000/- | 28 years |
| 4.0 | Project Assistant Level-II-01 (One) (DST-JRF) | 1 st Class M.Sc (Physics) with NET Lectureship or M.Sc Chemistry with NET Lectureship | Preferably having knowledge in the area of organic solar cells and conjugated polymers. | Investigations in Organic photovoltaic materials and devices | Advancing the efficiency and production potential of excitonic solar cells (APEX) | 17.01.2014 Rs.16000/- | 28 years |
| 5.0 | Project Assistant Level-IV -01 (One) (DST-RA) | Ph.D (Physics)/Ph.D Material Science | Preferably having knowledge in the area of organic solar cells and conjugated polymers. | Investigations in Organic photovoltaic materials and devices | Advancing the efficiency and production potential of excitonic solar cells (APEX) | 17.01.2014 Rs.22000/- | 35 years |
| 6.0 | Project Assistant Level-III– (DST-SRF) 01 (One) | 1 st Class M.Sc (Physics) with two years experience | Software/Programming MatLab, image processing | Data Analysis | Inter Laboratory Comparison Proficiency Testing under NABL-NPL. | December, 2011 and likely to continue Rs.18000/- | 32 years |

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|------|---|---|--|--|--|---|----------------------|
| 7.0 | Project Assistant Level-II-01 (One) | 1 st Class M.Sc (Physics) | Liquid Crystals, Solid State Physics | To assist in making adaptive spherical lens using liquid crystals | A Study of adaptive spherical lens using Nematic Liquid Crystals. | 19.04.2012 Rs.12000/- | 28 years |
| 8.0 | Project Assistant Level-III– (SRF/ Extended SRF) 02 (Two) | 1 st Class M.Sc Physics/Electronics or equivalent with 2 years experience | Knowledge of biosensors | Fabrication of biosensors | Setting up of centre on Biomolecular electronics | 06.02.2012 Rs.18000/- | 32 years |
| 9.0 | Research Associate or Project Assistant Level-III/IV-01 (One) | 1 st Class M.Sc (Physics/Electronics) with two years experience for Level-III OR Ph.D (Physics/Materials/ Electronics/nano material/Composites) for Level-IV | Nano Particles, Nano Fibres, Use of SEM/AFM/Interferometry/optical profiler | Nanometrology:Measurements and establishment of suitable standards/equipments e.g. optical profiler, MAFM etc. | Generic Development of Nanometrology for Nanotechnology at NPL, India | 19.12.2012 Rs.14000/- for Level-III or Rs.16000 for Level-IV | 32 years 35 years |
| 10.0 | Project Assistant Level-III 01 (One) | 1 st Class M.Sc (Physics) with two years experience | Optical Profiler, SEM, AFM, Measurement of dimension parameters like step height, roughness, surface topology, and other using these methods, nanomaterials etc. | Nanometrology: Measurements and establishment of suitable standards/equipments e.g. optical profiler, AFM etc. | Generic Development of Nanometrology for Nanotechnology at NPL, India | 19.12.2012 Rs.14000/- | 32 years |
| 11.0 | Project Assistant Level-II (DST-JRF) 01 (one) | 1 st Class M.Sc Physics or equivalent with NET | Knowledge of nanoscience and technology | Characterization of Crystals | Preparation and Characterization of Silicon for solar energy applications | 19.09.2012 Rs.16000/- | 28 years |
| 12.0 | Project Assistant Level-III-01 (One) | 1 st Class M.Sc (Physics) with two years experience | Semiconductor characterization | OLED Fabrication and Characterization | Fabrication of LED devices and system for solid lighting application | 31.03.2012 Rs.12000/- | 32 years |
| 13.0 | Project Assistant Level-II-01 (One) | 1 st Class M.Sc (Physics/Environmental Sciences) | Knowledge in Computer Programming and Atmospheric Sciences | Analysis of Satellite data | Study on the effects of atmospheric dynamical activity (long and short term) in the Tropical Tropopause region:Implication on the stratosphere-troposphere exchange of the minor constituents. | 31.01.2012 Rs.12000/- | 28 years |
| 14.0 | Project Assistant Level-II-02 (Two) | 1 st Class M.Sc (Physics/Environmental Sciences) | Knowledge in Computer Programming and Atmospheric Sciences | Analysis of Satellite data | Upper Tropospheric and Lower Stratospheric Water Vapor Distribution and Variability over tropical region:Implication on Stratosphere-Troposphere Exchange. | 10.04.2014 Rs.12000/- | 28 years |
| 15.0 | Project Assistant Level-III-01 (One) | 1 st Class M.Sc Physics or equivalent with two years of experience | Two years research experience in x-ray diffraction experiments | Experimental work in high resolution x-ray diffractions | A new high resolution x-ray reflection facility with unprecedented resolution and investigation of nano-layers and solid surfaces | 31.12.2013 Rs.16000/- | 32 years |

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|------|--------------------------------------|--|---|---|--|--------------------------|----------|
| 16.0 | Project Assistant Level-III-01 (One) | 1 st Class M.Sc Physics with specialization in Solid State Physics/Electronics/Materials Science/Thin Films, etc. with two years experience | NET/GATE qualified or Exposure in the field of conducting polymers and their characterization | Organic/conjugated polymers thin film deposition and characterization for organic electronic device applications. | Fabrication of LED devices and systems for solid state lighting applications | 31.03.2012 Rs.12000/- | 32 years |
| 17.0 | Research Intern – 02 (Two) | 1 st Class BE/B.Tech (Civil Engineering) and qualified GATE with at least 400 marks | -- | -- | CSIR Diamond Jubilee Research Intern Award Scheme | 02 years Rs.15000/- | 25 years |

22nd JUNE, 2011

| Post Code | Name & No. of positions | Essential Educational Qualification | Desirable | Job Description | Project/Scheme Title | Tenure of project & Emoluments/ Stipend (Fixed) Per Month | Maximum age limit as on 22.06.2011 |
|-----------|--|--|--|---|---|---|------------------------------------|
| 18.0 | Project Assistant Level-II-01 (One) | 1 st Class M.Sc (Chemistry) | - | Work related to pH measurement by primary method | Advances in Metrology: MIC-CRM activity | 31.03.2012 Rs.10000/- | 28 years |
| 19.0 | Project Assistant Level-III– (DST-SRF) 01 (One) | 1 st Class B.Tech (Electronics)/Mechanical or equivalent with two years experience | Software/Programming MatLab, image processing | Data Analysis | Inter Laboratory Comparison Proficiency Testing under NABL-NPL. | December, 2011 and likely to continue Rs.18000/- | 32 years |
| 20.0 | Project Assistant Level-II (DST-JRF)– 01 (One) | 1 st Class B,Tech in Biotechnology and GATE with at least 400 marks | NIL | Establishment of infrared markers for distinguishing cancer and normal human tissue | Infrared spectroscopic study for tumor diagnosis | 03.12.2011 Rs.16000/- | 28 years |
| 21.0 | Project Assistant Level-III– (SRF/ Extended SRF) 04 (Four) | 1 st Class M.Sc Chemistry/Biochemistry or equivalent with 2 years experience for SRF | Knowledge of biosensors | Fabrication of biosensors | Setting up of centre on Biomolecular electronics | 05.02.2012 Rs.14000/- | 32 years |
| 22.0 | Project Assistant Level-III (DST) 02 (Two) | 1 st Class M.Tech Nanotechnology Or 1 st Class M.Sc (Chemistry) with NET qualified with 2 years experience | Experience in synthesis of nanofibers by electrospinning | Development of carbon nanofibers and their characterization | Development of continuous carbon nanofibers by Electrospinning | 02.02.2014 Rs.18000/- | 28 years |
| 23.0 | Project Assistant Level-II-01 (One) | 1 st Class BE (Electronics) and GATE with at least 400 marks Or 1 st Class M.Sc (Electronics) | Electronics/Sat.Communication Data Analysis | Digital Electronics, Sat.Communication, Data Analysis, Timing Measurement | Advancement in Metrology | 31.03.2012 Rs.10000/- | 28 years |
| 24.0 | Project Assistant Level-II (DST-JRF) 01 (One) | 1 st Class M.Sc in Chemistry/Environmental Sciences with NET qualified | Laboratory as well as field experiments | Field and Lab experiments and data analysis | Study of distribution and sources of ambient ammonia over national capital region (NCR) | 06.07.2012 Rs.16000/- | 28 years |

| | | | | | | | |
|------|---|---|-----------------------|---|--|------------------------------|----------|
| 25.0 | Project Assistant Level-II-(DST-JRF) 01 (One) | 1 st Class M.Sc (Chemistry) with NET | NET qualified | To prepare and characterize carbon fibre paper samples for PEM fuel cell stack | A novel way to reduce Platinum metal loadings in a carbon nano-composite electrode to produce low cost-high efficiency commercially viable Polymer Electrolyte membrane (PEM) fuel cells | 31.03.2012 Rs.16000/- | 28 years |
| 26.0 | Project Assistant Level-II-01 (One) | 1 st Class M.Sc (Chemistry/Biochemistry) | - | Research & Development of Biosensors | Fabrication of Intelligent and smart tissue paper based sensor for management of infectious diseases | 19.09.2012 Rs.12000/- | 28 years |
| 27.0 | Project Assistant Level-II-01 (One) | 1 st Class M.Sc (Chemistry) | Knowledge of Computer | R&D Work on the development of high density graphite and carbon-copper composites | Development of High Density Graphite and Copper reinforced graphite for multistage depressed collector of electron tubes | 31.03.2012 Rs.10000/- | 28 years |
| 28.0 | Project Assistant Level-II-01 (One) | 1 st class B.Tech (Electronics) and GATE with at least 400 marks | - | Towards literature survey, practical measurements & data collections, etc. | Design of low cost Noise Barriers for traffic noise control | 31.03.2012 Rs.16000/- | 28 years |
| 29.0 | Research Intern – 08 (Eight) | 1 st Class B.Tech (Electronics) or equivalent and qualified GATE with at least 400 marks | -- | -- | CSIR Diamond Jubilee Research Intern Award Scheme | 02 years Rs.15000/- | 25 years |

- **Emoluments are likely to be revised.**

General Conditions :-

1. The appointment of Project Assistant shall be co-terminous with the duration of the single Project against which they are appointed for the first time. However, in case the Project in which Project Assistant is appointed is of short duration, such Project Assistant can be considered for fresh appointment in another Project based on his application and selection made by following the prescribed procedure with the condition that the total period of engagement of Project Assistant in different Projects either in the same Lab. or different Labs./Instts. taken together should not exceed 5 years in any case. There should be no automatic shifting of Project Assistant from one Project to another. The offer of appointment will normally be given for a period of one year, which may be extended further based on the duration of the project and recommendations of the Project Leader / Committee.
2. Candidate should possess the required educational qualification as on date of interview.
3. Candidate should consciously choose the area for which his/her candidature is suitable and accordingly give order of preference.
- 4.1 Leave: Project Assistant will be entitled for one day leave for each completed month's service.
- 4.2 Reservation: As regards reservation, if all things are equal, SC/ST/OBC candidates may be given preference over General candidates so as to ensure their representation.
- 4.3 Medical Facilities: Project Assistants will not be entitled for any medical facilities either through CSIR Dispensaries or under CS (MA) Rules, however, under emergent circumstances, Labs./Instt. may give emergency treatment/consultation through CSIR Dispensaries, but they will not be eligible for reimbursement of medical expenses.
- 4.4 There would be no component of HRA, increment etc. for Project Assistants, and only the consolidated remuneration to be paid to Project Assistants may be called "Stipend".
- 4.5 Registration for Ph.D : Project Assistants who have worked for a minimum period of two years may be allowed to register for or pursue Ph.D as per the affiliating University regulations and as decided by Director in each case.

5. **Mode of Selection** : In case large number of candidates turn up, the candidates will be shortlisted for interview by a duly constituted Screening Committee. Only the short-listed candidates shall be interviewed by Selection Committee. The Selection Committee may create a panel of Project Assistants which will be utilized as and when requirement arise.
6. Relaxation of age for SC/ST/PH/OBC will be applicable as per Govt. of India instructions.

Eligible candidates may appear for “Floating (Walk-in) Interview” on 21st & 22nd June, 2011 between 8.30 AM to 10.00 AM (candidate will not be entertained after 10.00 AM under any circumstance) in the Auditorium of the laboratory, along-with duly filled-in downloaded application form, latest passport size photograph, original and attested copies of all certificates/testimonials. Candidates belonging to SC/ST/OBC/PH, should bring copies of certificates in the proper format issued by the appropriate authority as per the latest instructions issued from time to time on the subject.

NO TA will paid to the candidates for appearing in the interview.

Controller of Administration

Note: Candidate should go through advertisement carefully for their suitability in the area.



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(Council of Scientific & Industrial Research)

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Dr. K.S. Krishnan Marg, New Delhi – 110012

विज्ञापन संख्या 01 / 2011 / Advt. No. 01/2011

फ्लोटिंग साक्षात्कार / Floating (Walk-in) Interview: 21.06.2011 & 22.06.2011

| | | | | |
|-----|--|--|-------------------|-----------------|
| 1. | पोस्ट कोड Post Code applied for | | | |
| 2. | आवेदित पद का नाम Name of the Post | | | |
| 3. | अभ्यर्थी का नाम Name of candidate | | | |
| 4. | पिता/पति का नाम Father's/Husband's Name | | | |
| 5. | जन्म तिथि Date of Birth | | | |
| 6. | साक्षात्कार की तिथि को आयु Age as on date of interview | () वर्ष Year | () माह Months | () दिन Days |
| 7a. | स्थायी पता Permanent address | | | |
| 7b. | पत्राचार का पता Correspondence address | | | |
| 8. | ई-मेल E-mail | | | |
| 9. | टेलीफोन नं० Telephone number | | | |
| 10. | श्रेणी Category | सामान्य General | () | |
| | आरक्षित है, हाँ / नहीं ()) Reserved, Yes/No () | अनुसूचित जाति Schedule Caste | () | |
| | | अनुसूचित जनजाति Schedule Tribe | () | |
| | | अन्य पिछड़ा वर्ग Other Backward Class | () | |
| | | अन्य Others | () | |
| | (यदि आरक्षित है तो दस्तावेजों के संलग्न की पृष्ठ संख्या) (If reserved, page no. of enclosed certificate) | | | |
| 11. | यदि एन.पी.एल/सी.एस.आई.आर. में आपका कोई संबंधी है Have to any blood relative related in NPL/CSIR | यदि हाँ If, Yes | | |
| | हाँ नहीं YES NO | नाम----- संबंध ----- Name..... Relation..... | | |
| | | पदनाम----- ----- Designation | | |
| | | संस्थान/प्रयोगशाला का नाम एवं पता----- ----- Name and address of the Institute/Lab | | |
| | | ----- ----- | | |

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|--|---|---|--|---|---|
| 12. | शैक्षिक योग्यता (उच्चतम से प्रारम्भ करें) Educational Qualification Start with Highest Qualification) | | | | |
| उत्तीर्ण परीक्षा Passed Examination | विश्वविद्यालय / बोर्ड का नाम Name of Board/ University | उत्तीर्ण परीक्षा का वर्ष Year of passing | विषय Subject | अंकों का प्रतिशत Percentage of Marks | दस्तावेजों के संलग्न की पृष्ठ संख्या Page no. of enclosed certificate |
| | | | | | |
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| | | | | | |
| 13. | क्या आपने सीएसआईआर/यूजीसी नेट की परीक्षा उत्तीर्ण की है। Have you qualified CSIR/UGC NET Examination | | हाँ / नहीं (यदि हाँ तो दस्तावेज के संलग्न की पृष्ठ संख्या.....) Yes/No (If yes, write the page no. of enclosed documents-----) | | |
| 14. | कार्य का अनुभव Work experience | | | | |
| संस्थान/ प्रयोगशाला का नाम Name of Lab/Institute | in Designation | कार्य की अवधि Period of time | | कुल अवधि (वर्ष, माह एवं दिन) Total Duration (Years, Months,Days) | दस्तावेजों के संलग्न की पृष्ठ संख्या Page no. of enclosed certificates |
| | | Is From | rd To | | |
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| | | | | | |
| 15. | क्या आपने इससे पहले सीएसआईआर की किसी भी प्रयोगशाला/संस्थान में कार्य किया है यदि हाँ तो विस्तृत विवरण प्रस्तुत करें। Have you worked in any CSIR Lab/Institute? If yes, give details:- | | | | |
| | संस्थान/ प्रयोगशाला का नाम Name of Lab/Institute | परियोजना का नाम Name of Project | | कार्य की अवधि Period of time | कुल अवधि (वर्ष, माह एवं दिन) Total Duration (Years, Months,Days) |
| | | | | से From | तक To |
| | | | | | |
| | | | | | |
| | | | | | |

मैं यह घोषणा / करता हूँ / करती हूँ कि इस आवेदन में दिये गये विवरण मेरे विश्वास के अनुसार पूर्ण रूप से सत्य है यदि कोई सूचना असत्य/ गलत / छिपाई गयी साबित होती है तो आप मेरा आवेदन तुरन्त / किसी भी समय निरस्त कर सकते हैं।

I hereby declare that all the statements made in this application are true and complete to the best of my knowledge and belief and nothing has been conceal/distorted any material information, my engagement is liable to be summarily terminated without notice.

दिनांक :

Date :

प्रार्थी / प्रार्थिनी के हस्ताक्षर

Signature of candidate

For Office use only

प्राप्त अंक / POINTS AWARDED

| | |
|---|--|
| उपरोक्तानुसार / From above | |
| स्क्रीनिंग साक्षात्कार के अंक / From screening interview (out of 20) | |
| कुल अंक / TOTAL | |

चयन समिति के लिए संस्तुति /

FORWARDED TO SELECTION COMMITTEE:

हाँ
YES

नहीं
NO

सदस्य
MEMBER

सदस्य
MEMEBR

सदस्य
MEMBER

सदस्य
MEMBER