



सी.एस.आई.आर. – राष्ट्रीय भौतिक प्रयोगशाला  
**CSIR-NATIONAL PHYSICAL LABORATORY**  
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)  
(Council of Scientific & Industrial Research)  
डा. के.एस. कृष्णन् मार्ग, नई दिल्ली – 110012  
Dr. K.S. Krishnan Marg, New Delhi – 110012  
**Advertisement No. 07 /2013**



**“FLOATING (WALK-IN) INTERVIEW ON 13th December, 2013”**

NPL, New Delhi (a constituent laboratory of CSIR) desires to have qualified incumbents for purely temporary and contractual positions of “Research Associate, Senior Research Fellow, Junior Research Fellow, Senior Project Fellow, Project Fellow, Project Associate and Project Assistant” under the various ongoing externally funded & time targeted sponsored projects as under:-

Post code	Name & No. of positions	Essential Educational Qualification	Desirable	Job description	Project /Scheme Title	Tenure of project & Emoluments/ stipend (Fixed )per month	Age as on 11.12.2013 (Upper age limit as per rule with relaxation as per rule for SC/ST/OBC/Women Candidates)
1.1	Research Associate One (01) OR Senior Research Fellow One (01)	For R.A. - Ph.D. (Physics)  For S.R.F. – Ph.D. (physics) thesis submitted related to superconducting & magnetic materials & low temperature experimentation	Experience in studies of thin films of magnetic and superconducting materials	Preparation, characterization & low temperature experiments of thin films of magnetic & superconducting materials	Studies of electron correlations at low temperatures and high magnetic fields in tailored interfaces and heterostructures	For R.A - Rs.24,000/- + 30% HRA per month  For SRF – Rs. 18,000/- + 30% HRA per month (up to 04/12/2017)	For R.A. - 35 Years  For S.R.F. – 32 years
1.2	Junior Research Fellow One (01)	MSc. (Physics) and NET (CSIR/UGC/Lectureship) qualified	Experimental Physics	Preparation & characterization of thin films of magnetic & superconducting materials	Studies of electron correlations at low temperatures and high magnetic fields in tailored interfaces and heterostructures	Rs. 16,000/- + 30% HRA per month (up to 04/12/2017)	28 Years

2.0	Junior Research Fellow Two (02)	MSc. (Physics) and NET (CSIR/UGC/Lectureship) qualified	Experimental Physics	Preparation, characterization and low temperature experimentation on nanoparticles & thin films of magnetic and superconducting materials	Study of magnetic anisotropy in magnetic nanoparticles, thin films and heterostructures	Rs. 16,000/- + 30% HRA per month  (up to 17/10/2017)	28 years
3.0	Junior Research Fellow Two (02)	B.Tech (Electronics / Biotechnology) with First Division	Experience in respective fields	Fabrication of Biosensors	Development of novel CSIR technologies for manufacturing tailored and patient specific bio ceramic implants and biomedical devices at affordable cost.	Rs. 14,000/- + 30% HRA  (up to 31.03.2017)	28 years
4.0	Research Associate One (01)	Ph.D. (Physics/Environmental/A tmospheric Sciences)	Experience on atmospheric aerosols and radiation	Measurement and modeling of atmospheric aerosols and radiation, satellite data analysis	Seasonal variation of column aerosol properties, aerosol radiation forcing and the assessment of the impact of absorbing (BC) and desert dust aerosols in the mega- city of Delhi	Rs. 22,000/- + 30% HRA per month  (up to 28/06/2014)	35 years
5.0	Senior Research Fellow One (01)	MSc. (Physics/Math) + NET qualified + 02 years relevant experience Or M.Tech. (Environmental Science) with Physics/Math background	Knowledge of computer programming	Modeling/Analysis of atmospheric data to find oxidizing capacity of the atmosphere	Determination of the impact of oxidizing capacity of the troposphere on the abundance of CO and CH4 with special reference to India	Rs. 18,000/- (consolidated)  (up to 30/01/2015)	35 Years
6.0	Senior Project Fellow One (01)	MSc. (Chemical Sciences) / M.Tech (Chemical Sciences) / Ph.D. (Chemical Sciences)	Management / handling of projects / computer skills	Help in management and handling of project	Strengthening the quality infrastructure in environmental analytics-Cooperation on environmental measurement in India (CEMI)	Rs. 18,000/- + 30% HRA  (up to 14.10.2016)	35 Years

7.0	Project Fellow One (01)	M.Sc. (Physics) with First Division	Synthesis and application of carbon nanotubes	Synthesis of carbon nanotube composites and characterization	Development of Advanced Materials for Next Generation Energy Efficient Devices (D-NEED)	Rs.16,000/- + 30% HRA per month (up to 31/12/2017)	28 Years
8.0	Post-Doctoral Fellow One (01)	Ph.D. (Physics/ Material Sciences) Thesis Submitted or Awarded	Experience in experimental Low temperature condensed matter physics	Research work – Search for new superconductors	“DAE-SRC outstanding Investigator Award Fellowship – Search for new superconductors”	Rs. 21,000/- + 30% HRA (up to 21.08.2017)	32 Years
9.0	Senior Project Fellow One (01)	MSc. (Chemistry)	Two years' experience in the field of carbon	Synthesis of carbon nanotube composites and characterization	Development of advanced carbon material and products for very high power microwave tubes as a part of Very High Power microwave Tubes: Design and Development Capabilities (MTDDC)	Rs. 18,000/- (consolidated) (up to 31.03.2017)	32 Years
10.0	Project Fellow One (01)	M.Sc. (physics) with first division	-	Research Work	“Advanced Quantum Research and Innovation with Ultra Small System (AQuARIUS)”	Rs. 16,000/- (Consolidated) (up to 31.03.2017)	28 years
11.0	Senior Project Fellow One (01)	M.Tech. (Nano science / nanotechnology) with first division with physics background	Experience in solar cell materials and device application	Investigation of organic photovoltaic materials and devices	Novel Approaches for solar Energy Conversion (CSIR – TAPSUN)	Rs. 18,000/- + 30% HRA (up to 31.03.2017)	32 years
12.0	Project Fellow One (01)	M.Sc. (Physics) / B.Tech	Modeling, data handling, project related work	To work with the different metrological activities	Measurement Innovation in Science and Technology	Rs. 25,000/- per month (consolidated) (up to 31.03.2017)	28 Years

13.0	Senior Research Fellow One (01)	M.Sc. (Physics) with at least 60% marks + 2 years R&D experience + 1 research paper published in SCI Journal  Or  M.Tech. in Engineering / Nanotechnology with at least 60% marks	Research experience in the synthesis of nano materials (CNTs, grapheme, metal nano particles)	Synthesis & characterization of Pt and Pt / Co nano particles and development of grapheme supported electrolytes for fuel cells	Development of grapheme supported Pt and Pt / Co electro catalysts for their application as a cathode material in a fuel cell	Rs. 14,000/- + 30% HRA per month  (up to 31.07.2016)	32 Years
14.0	Senior Project Fellow One (01)	M.Tech (Nanotechnology) with first division with minimum 02 years research experience	Experience in carbon materials	Development of carbon anode for Li-ion battery	Development of Batteries / storage materials (Innovative Solutions for Solar Energy Storage)	Rs. 18,000/- + 30% HRA  (up to 23.10.2017)	32 Years
15.0	Research Associate One (01)	Ph.D. (Physics / Materials / Electronics/ Nanoscience / Nanotechnology)	Precision measurements of low level electrical and electronics at low temperature	Low value voltage measurements, SQUID's and Pico voltmeter	Generic Development of Nanometrology for Nanotechnology at NPLI	Rs. 16,000/- + 30% HRA  (up to 31.12.2014)	35 Years
15.1	Research Associate One (01)	Ph.D. (Physics / Materials / Electronics/ Nanoscience / Nanotechnology)	Experience in fabrication of Nanoparticles and structures, Nanoscale measurements etc.	Nanoscale measurements and nanostructure R&D, Handling of optical profiler, AFM and interferometers	Generic Development of Nanometrology for Nanotechnology at NPLI	Rs. 16,000/- + 30% HRA  (up to 31.12.2014)	35 Years
16.0	Senior Research Fellow One (01)	Submitted Ph.D. (Physics) involving Superconductivity & Low temperature experimentation	Experience in studies of nanoparticles & thin films of magnetic and superconducting materials	Preparation, characterization and low temperature experimentation on nanoparticles & thin films of magnetic and superconducting materials.	Study of magnetic anisotropy in magnetic nanoparticles, thin films and heterostructures	Rs. 18,000/-+ 30% HRA  (Up to 17-10-2014)	32 Years

17.0	Project Fellow One (01)	M.Sc. (Chemistry) with 60% marks	Physics, Chemistry and Maths at graduate level. Experience in handling analytical instruments e.g. GC, etc.	To work for chemical metrology activities in the project.	Measurement Innovation in Science and Technology (MIST)	Rs. 15,000/- + 30% HRA (Upto 31.03.2017)	28 Years
18.0	Project Fellow One (01)	M.Sc. in Organic/Inorganic/Industrial Chemistry with 60% mark.	-	R&D in organic photovoltaic materials and devices	Novel Approaches for solar Energy Conversion (CSIR – TAPSUN)	Rs. 16,000/- + 30% HRA (up to 31.03.2017)	28 years
19.0	Research Associate One (01)	Ph.D in Chemistry	Experience in the area of organic solar cell materials and devices.	R&D in organic photovoltaic materials and devices	Novel Approaches for solar Energy Conversion (CSIR – TAPSUN)	Rs. 22,000/- + 30% HRA (up to 31.03.2017)	32 years

#### General Conditions:-

- 1.0 The total duration for which Project staff could be engaged will be five years. 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 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 Project staff in different projects taken together should be counted only from 28.03.2003 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 Selection Committee.
- 2.1 Leave: Project staff will be entitled for one day leave for each completed month's service.
- 2.2 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.
- 2.3 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.
- 2.4 Registration for Ph.D.: The facility for Ph.D. registration shall be allowed to those Project Staff who have worked for a minimum period of one years and have atleast cleared CSIR-UGC Lecturer ship (NET) or GATE examination or published 02 papers in international peer reviewed journals.
- 2.5 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".
3. Candidate should possess the required educational qualification as on date of interview.
4. Candidate should consciously choose only one position in the area for which his/her candidature is suitable.
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 will be interviewed by Selection Committee. The Select panel so prepared will be utilized for engagement as Project staff as and when requirement arise.
6. Relaxation of age for SC/ST/PH/OBC and women will be applicable as per GOI instructions

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 on 13<sup>h</sup> December, 2013 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 (Bio-data) on plain paper giving the full details inclusive of marks starting from secondary examination onwards along with 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 on the subject.

No TA will be paid to the candidates for appearing in the interview.

**Note:**

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