



सी.एस.आई.आर.– राष्ट्रीय भौतिक प्रयोगशाला  
**CSIR-NATIONAL PHYSICAL LABORATORY**

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

(Council of Scientific & Industrial Research)

डा. के.एस. कृष्णन् मार्ग, नई दिल्ली – 110012

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

**Advertisement No.Rectt./01/2016**

**“FLOATING (WALK-IN) INTERVIEW ON -10/02/2016-,”**

CSIR-NPL, New Delhi (a constituent laboratory of CSIR) desires to have qualified incumbents for purely temporary and contractual positions of “ Junior Research Fellows, Senior Research Fellows, Project Fellows, Sr Project Fellows, 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 <b>10/02/2016</b> (Upper age limit as per rule with relaxation as per rule for SC/ST/OBC/Women Candidates)
1.0	Junior Research Fellow One (01)	M.Sc. (Chemistry) + CSIR- UGC Net Qualified	One-Year research experience in Biosensor/liquid crystal	Research and Development	Investigation of the molecular dynamics at the interface of liquid crystal and immiscible structures	Rs. 25,000/- +HRA (up to 17.09.2018)	28 Years
2.0	Junior Research Fellow One (01)	M.Sc. (Chemistry) (Specialization Organic Chemistry) + CSIR-UGC NET Qualified	Some experience in Organic synthesis and organic photovoltaic.	Materials synthesis and device development for organic photovoltaic	Semiconducting thiophene based electronic materials for organic solar cells	Rs. 25,000/- (Consolidated) (up to 06.10.2018)	28 Years
3.0	Senior Research Fellow One (01)	M.Sc.(Chemistry) + 2 Years research experience.	Some Experience in the area of Organic Photovoltaics.	Device Development of Organic photovoltaics	Advancing the Efficiency and Production Potential of Excitonic Solar Cells (APEX Phase II)	Rs. 25,000/-+HRA (up to 03.09.2017)	32 Years
4.0	Senior Project Fellow One (01)	M. Tech. in Energy Engineering.	Experience in Carbon materials`	Research work related to development of high density graphite.	Very High Power MW Tubes : Design and Development Capabilities (MTDDC)	Rs. 18,000/-+ HRA (up to 31.03.2017)	32 Years
5.0	Project Fellow One (01)	B.Tech in Mechanical Engineering	Experience on synthesis of vertically aligned carbon nanotubes.	Performing experiments of development of CNT/polymer composites for Energy efficient devices.	Development of Advanced Materials for Next-Generation Energy-Efficient Devices (D-NEED)	Rs.16,000/-+ HRA (up to 31.03.2017)	28 Years

6.0	Junior Research Fellow One (01)	M.Sc. (Physics).+ CSIR-UGC NET Qualified	Background in numerical and /or computational methods	Research (Theory and Experiments)	Search for quasi-two dimensional electron gas in new oxide heterostructures. Theory & Experiments	Rs.25,000/-+ HRA (up to 07.12.2018)	28 Years
7.0	Project Fellow One (01)	B.Tech in Electronics	Experience in operation and maintenance of electronic equipment.	Operation, measurement and maintenance of magnetic based equipment	D-NEED- "Development of RE-free Permanent Magnet Materials"	Rs. 16,000/-+HRA (up to 31.03.2017)	28 Years
8.0	Senior Project Fellow One (01)	M.Tech in Nanotechnology	Experience in the synthesis and characterization of thermoelectric materials	Synthesis, microstructural characterization and property evaluation of nanostructure thermoelectric materials	CSIR TAPSUN Project - Technologies & Products for Solar Energy Utilization through Networks	Rs. 18,000/- +HRA (up to 31.03.2017)	32 Years
9.0	Junior Research Fellow One (01)	M.Sc (Physics) + CSIR-UGC NET Qualified. or B. Tech (Electronics)+ GATE Qualified.	Exposure to Thin film related works	Thin film deposition and characterizations	"Process development for the deposition of Poly-Si films on biaxially textured substrate for solar cell application."	Rs. 25,000/- +HRA (up to 13.08.2018)	28 Years
10.0	Junior Research Fellow One (01)	M.Sc (Physics/ Applied Optics/Applied physics/ Instrumentation) + CSIR - UGC NET Qualified	Optics or vacuum technology or electronics	Designing, fabrication and testing subsystems in the lon trap experiment	"Designing Fabrication and characterization of an lon trap for trapping Single Ytterbium lon for building an optical frequency standard in India.	Rs. 16,000/- +HRA (up to 08.11.2017)	28 Years
11.0	Junior Research Fellow One (01)	M.Sc (Physics/Electronics) + CSIR -UGC NET Qualified or BE/B.Tech+ GATE Qualified	1 year of experience at any CSIR LAB.	Nitride semiconductor deposition/device fabrication/extensive optical and electrical characterization and data analysis.	"Investigation of the effect of misoriented /patterned substrates on the properties of Nitride structures grown by PAMBE	Rs. 25,000/- (Consolidated) (up to 13.10.2018)	28 Years
12.0	Senior Project Fellow One (01)	M.Sc (Electronics) + Two Year experience in relevant field	Organic Photovoltaic Device Development	Device Development of Organic photovoltaic	Novel Approaches for Solar Energy Conversion (CSIR-TAPSUN)	Rs. 18,000/-+ HRA (up to 31.03.2017)	32 Years

13.0	Junior Research Fellow One (01)	B.Tech in Chemical Engg./ Mechanical Engg./ Biotechnology Engg. +GATE Qualified	In air monitoring/ instrumentation	Designing and construction of sampler and calibration facility, testing of the sampler	“Designing, development and calibration of PM <sub>2.5</sub> and PM <sub>10</sub> high-volume sampler	Rs. 25,000/-+ HRA (up to 21.12.2018)	28 Years
14.0	Project Fellow One (01)	B.Tech in Electronics & Communication/Comp. Engg. or M.Sc. (Electronics)	R&D in Computational Electromagnetics for Antenna Analysis.	R&D in metrology and precision measurement	Measurement Innovation in Science and Technology (MIST)	Rs. 16,000/-+ HRA (up to 31.03.2017)	28 Years
15.0	Senior Research Fellow One (01)	M.Sc (Physics) with + 2 Years Research Experience	Two year Research on soft materials including one year experience in liquid crystals.	Synthesis of carbon materials and characterization for biomedical application	“Liquid Crystals for the detection of Biomolecule for sensor applications	Rs. 25,000/-+ HRA (up to 01.11.2018)	32 Years
16.0	Senior Project Fellow One (01)	M.Sc (Physics/Material Science) + Two years Research Experience or M.Tech (Nanoscience)	-----	R & D on Spintronic and Multiferroics	“Research Initiative on Nano-Devices and Nano-Sensors (R-Nano), NPL	Rs. 18,000/-+ HRA (up to 31.03.2017)	32 Years
17.0	Senior Research Fellow One (01)	M.Sc (Physics) with +2 Years Research Experience	Low temperature (~ 2 K) (opto) transport/magnetic measurements on superconducting/ magnetic thin films/hetrostructures.	Low temperature (opto) transport/magnetic measurements of magnetic & superconducting materials based devices.	“Study of magnetic anisotropy in magnetic nanoparticles, thin films and hetrostructures.	Rs. 25 ,000/-+ HRA (up to 31.03.2016)	32 Years
18.0	Project Assistant One (01)	M.Sc (Chemistry)	Candidate with experience in synthesis of graphene, conjugated polymers or their nanocomposites for EMI shielding/ supercapacitors will be preferred.	Synthesis & characterization of graphence analogues, conjugated polymers and their nanocomposites for EMI shielding & anti-static applications	“Designing of graphence based porous nanocomposites for electrostatic protection and shielding of electromagnetic radiations	Rs. 16,000/- (Consolidated) (up to 28.11.2017)	28 Years

## General Conditions:-

- 1.0 The minimum eligibility in terms of marks obtained (percentage) for registration of the candidates in any of the advertised posts is **First Division as prescribed by their respective University / Institute.**
- 1.1 Candidates who have completed the essential qualification & 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
- 1.2 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 **10.02.2011** 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 year and have at least 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 may apply for maximum 02 (Two) posts. Separate application may be submitted for each post code if a candidate is desirous of applying in more than 01 (One) Post.
5. **Mode of Selection:** The candidates will be shortlisted for interview by a duly constituted Screening Committee. Only the short-listed candidates will be interviewed by Selection Committee.
- 5.1 **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.**
6. Relaxation of age for SC/ST/PWD/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 10/02/2016 from 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/PWD 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:** Candidate should go through the advertisement carefully for their suitability in the area.