



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. /02/2016

“FLOATING (WALK-IN) INTERVIEW ON - 02nd & 3rd August, 2016.”

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

(DAY-1) (02.08.2016)

Post code	Name & No. of positions	Essential Educational Qualification	Desirable	Job description	Project /Scheme Title	Tenure of project & Emoluments/ stipend per month	Age as on 02/08/2016
1.0	Project Assistant One (01)	M.Sc (Chemistry)	Candidate having previous work experience in the area of synthesis and applications of nanomaterials, graphene, analogues or their nanocomposites for EMI shielding or antistatics applications will be preferred	Synthesis & characterization of graphene analogues, inorganic nanoparticles, conjugated polymers and their nanocomposites for EMI shielding & anti-static applications.	Designing of graphene based porous nanocomposites for electrostatic protection and shielding of electromagnetic radiations .	Rs. 16,000/- (Fixed) (up to 28.11.2017)	28 Years
2.0	Project Assistant One (01)	M.Sc (Physics)	Basic knowledge in electronics or optics or vacuum technology	Fabrication and testing subsystem 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
3.0	Project Assistant One (01)	M.Sc (Chemistry/Applied Chemistry)	Experience in ink preparation	To help in development of indelible ink marker pen for marking on human skin for casting of vote	Indelible ink marker pen for marking on human skin for casting of vote.	Rs. 16,000/- +HRA (up to 14.10.2018)	28 Years

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4.0	Project Assistant One (01)	M.Sc. (Applied Chemistry)	One year research experience	To prepare liquid crystal cells and characterize them for Bio-sensors	Investigation of molecular dynamics at the interface of liquid crystal and immiscible structures	Rs. 16,000/- +HRA (up to 17.09.2018)	28 Years
5.0	Project Fellow One (01)	M.Sc (Physics)	Some knowledge/experience in material synthesis and characterization	Perovskite solar cell fabrication, Characterization of perovskite material and device properties	Development of efficient, stable and environment friendly metal-halide perovskite Photovoltaic cells.	Rs. 16,000/- +HRA (up to 12.01.2021)	28 Years
6.0	Research Associate One (01)	Ph.D(Physics/Chemistry/ Atmospheric Sci /Geophysics)	On atmospheric aerosols, radiation & Knowledge of computer programming.	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/- +HRA (up to 28.06.2017) (Extendable)	35Years
7.0	Research Associate One (01)	Ph.D (Low Temperature Physics)	Low temperature (~ 2 K) high field transport/magnetic experiments on superconducting/magnetic bulk/proximity junctions/low dimensional system	Preparation & low temperature experiments of thin films/devices of magnetic & superconducting based materials	Study of electron correlations at low temperatures and high magnetic fields in tailored interfaces and heterostructures.	Rs. 36,000/-+ HRA (up to 04.12.2017)	35 Years
8.0	Senior Research Fellow One (01)	M.Sc (Chemistry) + 2 years research experience.	Some Experience in the area of Organic Photovoltaics.	Device development of Organic photovoltaic	Advancing the Efficiency and Production Potential of Excitonic Solar Cells (Apex Phase II).	Rs. 25,000/- +HRA (up to 03.09.2017)	32 Years
9.0	Junior Research Fellow One (01)	M.Sc. (Chemistry) +NET Qualified	At least six months research experience in nanoscience and technology is desired.	Synthesis and luminescence characterization of nanophosphors by various methods	Development of Thermally Stable Novel Nanophosphors for improving Color Rendering index in White LEDs.	Rs. 25,000/-+HRA (up to 04.05.2019)	28 Years
10.0	Junior Research Fellow One (01)	Master in Physics+ NET Qualified	Experience in bulk and/or thin film materials synthesis	Solid state synthesis of materials, Pulsed Laser Deposition of thin films & computational modeling.	Search for quasi-two dimensional electron gas in new oxide hetero-interfaces. Theory & Experiments	Rs.25,000/-+ HRA (up to 07.12.2018)	28 Years

11.0	Junior Research Fellow One (01)	M.Sc. (Chemistry) + NET Qualified	Some experience in organic synthesis and excitonic solar cells.	Materials synthesis and device development for organic photovoltaic	Semiconducting thiophene based electronic materials for organic solar cells.	Rs. 25,000/-(Fixed) (up to 16.10.2018)	28 Years
12.0	Senior Research Fellow One (01)	M.Sc. (Biotechnology/ Biochemistry/Chemistry) + 2 years research experience.	---	Collection and analysis of cancer tissue samples.	Infrared spectroscopic study for tumor diagnosis-Phase II.	Rs. 18,000/-+HRA (up to 07.01.2017)	32 Years
13.0	Project Fellow One (01)	M.Sc. in Physics/Applied Optics/Applied Physics	NA	Fabrication and testing of subsystems of electronic, vacuum and optical components	A system to generate a common synchronized clock....	Rs. 18,000/- +HRA (up to 17.03.2018)	28 Years
14.0	Project Fellow Three (03)	B.Tech (Electronics/ Electronics & comm.)	NA	Development of electronics and programming in C++/JAVA	A system to generate a common synchronized clock....	Rs. 18,000/- +HRA (up to 17.03.2018)	28 Years

DAY-2 (03.08.2016)

15.0	Project Assistant -II One (01)	M.Sc (Physics) with 55% marks	Experience in the synthesis and characterization of material	Synthesis, microstructural characterization and magnetic property evaluation of magnetic materials	D-NEED- Development of RE-free Permanent Magnet Materials.	Rs. 25,000/- +HRA (up to 31.03.2017)	30 Years
16.0	Project Assistant -II One (01)	M.Sc (Electronics) with 55% marks	R&D In Computational Electromagnetics for Antenna Analysis with 1(one) SCI Publication will be given preference with one year experience	R&D in metrology and precision measurement	Measurement Innovation in Science and Technology (MIST).	Rs. 25,000/- +HRA (up to 31.03.2017)	30 Years
17.0	Research Associate-I One (01)	Ph.D(Chemistry)	-----	To carry out R&D in organic solar cell materials and devices for improving their performance.	Advancing the Efficiency and Stability in Organic Solar Cells.	Rs. 36000/-+HRA (up to 31.05.2019)	35Years
18.0	Project Assistant -II One (01)	B.Tech in Mechanical Engineering with 55% marks	Experience in carbon nanomaterials	Preparation of graphite-CNTs composites bipolar plates.	Demonstration and validation of 3kWe PEMFC system.	Rs. 25,000/- +HRA (up to 31.12.2016)	30Years

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19.0	Junior Project Engineer (Civil) Two (02)	Diploma in civil engg. (3 years) +1 st Division+one year in construction & maintenance of buildings.	----	Estimating, billing & supervision of various construction activities.	Technical services division NPL.	Rs. 20,000 (Fixed) (up to 14.07.2017)	28 Years
20.0	Project Assistant -III One (01)	M.Tech with 55% marks or M.Sc in Physics with 55% marks +2 Years experience	Experience in synthesis and characterization of alloys and composites	Development, characterization and testing of thermoelectric materials	Development of novel thermoelectric materials and devices for harnessing solar energy and waste heat.	Rs. 28,000/- +HRA (up to 31.03.2017)	35 Years
21.0	Project Assistant -III One (01)	M. Tech. in Energy Engineering/ Nanotechnology with 55% marks	Material synthesis and characterization	Research work related to development of high density graphite.	Very High Power MW Tubes : Design and Development Capabilities (MTDDC)	Rs. 28,000/-+ HRA (up to 31.03.2017)	35Years
22.0	Project Assistant -III One (01)	M.Tech (Polymer technology/ Materials technology) with 55% marks	Experience in carbon nano materials and polymer composites	Development of carbon fibre/carbon nanotube electrodes for Li-ion battery and Fuel Cell.	Development of low cost high efficiency carbon electrodes for fuel cell and Li-on battery for clean energy generation and storage.	Rs. 28,000/- +HRA (up to 29.09.2017)	35 Years
23.0	Software Developer Two (02)	B.Tech. (CS/IT) with 55% marks or MCA with 55% marks	----	2 years of experience in web application development of NET/MS-SQL platform; thorough knowledge of C#&SQL. (NET may be read a ASP. Net)	Customization and implementation of S&P module software for automation of Purchase-related workflow in NPL on CDRI model.)	Rs. 30,000(Fixed) (Only Three Months)	30 Years

Instructions:-

- 1.0 Only those 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. Experience if required in any post should only be post-qualification experience.
- 1.1 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 **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 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 **Other benefits:** Project Staff will be provided dispensary facility if available. Project Staff engaged as temporary project manpower shall be covered under group medical insurance scheme offered by insurance companies and expenditure shall be debited from the project staff.
- 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 two year and have at least cleared CSIR-UGC Lecturer ship (NET) or GATE examination or published 01 papers in international peer reviewed ISI indexed journals.

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- 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 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.
- 4.1 **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.
- 4.2 **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.**
- 4.3 **Relaxation of age for SC/ST/ OBC /PWD /Women:** Age limit for Project staff shall be as advertised with five years relaxation for statutory groups and women.

Eligible candidates may appear together with downloaded application form duly filled-up, for "Floating (Walk-in) Interview" on 2nd August, 2016 for post code (s) 1.0 to 14.0 and on 3rd August, 2016 for post code (s) 15.0 to 23.0 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/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.