



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. 01 /2015**

**“FLOATING (WALK-IN) INTERVIEW ON 17<sup>th</sup> & 18<sup>th</sup> March, 2015”**

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 Assistant, Research Interns” 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 17.03.2015 (Upper age limit as per rule with relaxation as per rule for SC/ST/OBC/Women Candidates)
1.0	Project Assistant One (01)	M.Sc. (Organic Chemistry / Nanotechnology)	Experience in synthesis of graphene, conjugated polymers or their Nano composites for EMI shielding / super capacitors	Synthesis & characterization of graphene analogues, conjugated polymers and their nano composites for EMI shielding and anti-static applications	Designing of graphene based porous non composites for electrostatic protection and shielding of electromagnetic radiations	Rs. 16,000/- (consolidated) (up to 28.11.2017)	28 Years
2.1	Project Fellow One (01)	M.Sc. (Physics)	-	R&D on Spintronic and Multiferroics	Research Initiative on Nano-Devices and Nano Sensors	Rs. 16, 000/- + 30% HRA (up to 31.03.2017)	28 Years
2.2	Senior Project Fellow One (01)	M.Tech (Nanoscience/Material Science)	-	R&D on Spintronic and Multiferroics	Research Initiative on Nano-Devices and Nano Sensors	Rs. 18, 000/- + 30% HRA (up to 31.03.2017)	32 Years
3.0	Project Fellow One (01)	B.Tech (Mechanical and Automation Engineering) with experience in organic solar cells	-	To carry out R&D in flexible organic solar cell materials and devices, etc.	Novel Approaches for Solar Energy Conversion	Rs. 16, 000/- + 30% HRA (up to 31.03.2017)	28 Years

4.0	Senior Project Fellow One (01)	M.Sc. (Chemistry) with 02 years research experience in the relevant field	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. 18, 000/- + 30% HRA (up to 31.03.2017)	32 Years
5.0	Project Fellow One (01)	B.Tech (Electronics & Communication) / Computer Engineering	R&D in metrology and precision measurements	R&D in LabView programming for metrology and precision measurements	Measurement Innovation in Science & Technology (MIST)	Rs. 16,000/- + 30% HRA (up to 31.03.2016)	28 Years
6.0	Senior Research Fellow One(01)	M.Sc. (Biochemistry / Biotechnology) with 02 years research experience in the relevant field  Or  M.Tech (Biotechnology)	Experience in the field of infrared spectroscopy	Tissue sample collection, sample handling, data collection and analysis	Infrared spectroscopy study for tumor diagnosis Phase II	Rs. 18,000/- + 30% HRA (up to 07.07.2016)	32 Years
7.0	Senior Project Fellow One (01)	M.Sc. (Industrial Chemistry) with 2 years research experience	Knowledge in the area of conducting polymers	To carry out project work	Weight reduction of Pb-acid battery using conducting	Rs. 18,000/- + 30% HRA (up to 31.03.2017)	32 Years
8.0	Research Associate One (01)	PhD (Physics / Material Science)	Knowledge of electronics	Research, design & development	Design & development of Hybrid Nano phosphor Systems for Energy Efficient Flat EL Displays	Rs. 22,000/- + 30% HRA (up to 31.05.2017)	35 Years
9.0	Junior Research Fellow One (01)	M.Tech. (Physics / Applied Optics / Applied Physics / instrumentation)  Or  M.Sc. (Physics / Applied Optics / Applied Physics / instrumentation) + NET / GATE	Knowledge in optics or vacuum technology or electronics or VHDL	Designing, fabrication and testing subsystems in single trapped ion optical atomic frequency standards experiments	Designing, Fabrication and characterization of an Ion trap for trapping single ytterbium Ion for building an optical frequency standard in India	Rs. 16, 000/- + 30% HRA (up to 08.11.2017)	28 Years
10.0	Project Assistant One (01)	B.Tech (Electronics / Nanotechnology)	Experience in carbon nonmaterial	Preparation of graphite composites bipolar plates and porous conducting carbon paper.	Development and validation of 3kWe PEMFC System.	Rs. 16, 000/- + 30% HRA (up to 30.03.2016)	28 Years

11.1	Senior Project Fellow One (01)	M.Sc. (Atmospheric Science / Environmental Science / Physics) with 02 Year research experience and 01 SCI paper  Or  M.Tech. (Atmospheric Science / Environmental Science)	Experience in measurement of atmospheric trace constituents / modeling of atmospheric processes	To assist in atmospheric monitoring and analysis of data. He/She will also be required to work at NPL's remote atmospheric monitoring site at Palampur (H.P.)	Probing the changing atmosphere and its impacts in Indo – Gangetic Plains (IGP) and Himalayan Regions (AIM_IGPHim)	Rs. 16, 000/- + 30% HRA  (up to 31.03.2017)	32 Years
11.2	Project Fellow One (01)	M.Sc. (Environmental Science / Physics)	Experience in monitoring / measurement of atmospheric trace constituents	To assist in monitoring of atmospheric trace at Delhi and Remote Monitoring Site at Palampur (H.P.)	Probing the changing atmosphere and its impacts in Indo – Gangetic Plains (IGP) and Himalayan Regions (AIM_IGPHim)	Rs. 14, 000/- + 30% HRA  (up to 31.03.2017)	28 Years
12.0	Junior Research Fellow One (01)	M.Sc. (Organic Chemistry) + NET / GATE	Experience in synthesis of molecules for organic electronics	Synthesis materials for Organic photovoltaics	New Fullerene based covalent Donor-acceptor dyads for enhanced solar energy conversion	Rs. 16, 000/- + 30% HRA  (up to 18.08.2017)	28 Years
13.0	Senior Project Fellow One (01)	M.Tech (Mechanical / Electrical)	-	Semiconductor lab maintenance	Efficient silicon photovoltaics with smart electronics and lighting systems (Si Solar Cell)	Rs. 18, 000/- + 30% HRA  (up to 31.03.2017)	32 Years
14.0	Senior Project Fellow One (01)	M.Tech (Material Science)  Or  M.Sc. (Physics) + 02 years research experience	Experience in organic semiconductors and thin film deposition	Synthesis of organic semiconductor and fabrication and characterizations of OLED / OLET	Efficient silicon photovoltaics with smart electronics and lighting system (OLET)	Rs. 18, 000/- + 30% HRA  (up to 31.03.2017)	32 Years
15.0	Senior Research Fellow One (01)	M.Tech (Nanotechnology)	Experience in carbon nano materials and polymer composites	Development of carbon fiber / carbon nanotube electrodes for Li-ion battery and fuel cell	Development of low cost high efficiency carbon electrodes for fuel cell and Li-ion battery for clean energy generation and storage	Rs. 14, 000/- + 30% HRA  (up to 30.09.2017)	32 Years
16.1	Research Intern Four (04)	M.Sc. (Physics)	-	Research in the relevant field	CSIR "Diamond Jubilee Research Interns Award " Scheme	Rs. 15, 000/- (consolidated)  (up to 17.03.2017)	25 Years

16.2	Research Intern Two (02)	M.Sc. (Chemistry)	-	Research in the relevant field	CSIR "Diamond Jubilee Research Interns Award " Scheme	Rs. 15, 000/- (consolidated) (up to 17.03.2017)	25 Years
16.3	Research Intern Two (02)	B.Tech. (Electrical / Electronics / Electronics & Communication)	-	Research in the relevant field	CSIR "Diamond Jubilee Research Interns Award " Scheme	Rs. 15, 000/- (consolidated) (up to 17.03.2017)	25 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 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 18.03.2010 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 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 17<sup>th</sup> March, 2015 for post code(s) 1.0 to 15.0 and on 18<sup>th</sup> March, 2015 for post code(s) 16.1 to 16.3 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:** Candidate should go through the advertisement carefully for their suitability in the area.