



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. 03 /2013**

**“FLOATING (WALK-IN) INTERVIEW ON 17<sup>th</sup> & 18<sup>th</sup> April, 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 and Research Interns under “CSIR Diamond Jubilee Research Intern Award Scheme”, as under:-

**DAY 1(17/04/2013)**

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
1.0	Project Assistant One (1)	M.Sc. (Physics) with 1 <sup>st</sup> Division	NA	Synthesis and characterization of nano-materials	Nano-materials: Applications and Impact on Safety, Health and Environment (NanoSHE)	31.03.2017 Rs. 12,000/ PM	28 Years
2.0	Project Assistant One (1)	M.Sc. physics (1 <sup>st</sup> Division or equivalent)	NA	Running Vacuum system, glass blowing, Simulations & Analysis on Atomic Clocks, and handling glassware for Developing a Rubidium Atomic Clock for Space	Development of Rubidium Atomic Clock	13.11.2013 Rs. 15000/- PM + 30% HRA	28 Years
3.0	Project Assistant One (1)	M.Sc. (Physics), 1st Class with Min. 70%.	Experience in Nano Science/Nano Materials, Characterization using Secondary Ion Mass Spectrometry	Experimental Physics, growth and characterization of device materials.	Growth and characterization of Nano-structured semiconducting materials and thin films for device applications	28-02-2014 Rs. 16000/- PM	28 years
4.0	Project Assistant Level II One (1)	M.Sc. (Physics or (Material Science or Nanotechnology) with 1 <sup>st</sup> Division	Experience in fabrication of Nanoparticle/nanostructures, nanoscale measurements etc.	Nanoscale measurements and nanostructure	Generic Development of Nanometrology for Nanotechnology at NPLI	31-12-2014 Rs. 12000/-	28 Years

5.0	Project Assistant One (1)	M.Sc Physics. with 1 <sup>st</sup> Division +2 Years Experience	Experience in MR fluid and ferrofluid	Developing ferrofluid based devices	Synthesis and Characterization of ferrofluids for Energy Conversion Applications	16-04-2015 Rs. 8,000/-	28 Years
6.0	RA-1 One (1)	Ph.D. (Physics) Involving Superconductivity & low temperature experimentation+ One year experience	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.	17-10-2014 Rs. 22,000/- + HRA Per Month	35 Years (Upper age limit as per rule with relaxation as per rule for SC/ST/OBC/ Woman Candidate)
7.0	Research Assistant One (1)	M.Sc. 1 <sup>st</sup> Division (Physics/Atmospheric Sci./Geophysics) with 1 <sup>st</sup> Division <b>Or</b> M.Tech (Atmospheric Sci.) With 1 <sup>st</sup> Division	On atmospheric aerosols and radiation and /or meteorology	Measurement and modeling of atmospheric aerosols and solar radiation	Multi-centric Collaborative Study on the impact of Environmental changes and Ultra Violet Radiation (UVR) exposure on ocular health in India.	11-03-2014 Rs. 22120/- (fixed)	30 Years
8.0	ISRO-SRF (NO NET requirement) One (1)	M.Sc. 1 <sup>st</sup> Division with Physics/Maths/Atmospheric Science with minimum 3 years experience in aerosols study	Experience of Aerosol Research & Computer Programming	Measurement and modeling of atmospheric aerosols and solar radiation	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.	28-06-2014 Rs.18000+ 30% HRA	32 Years
9.0	Project Fellow ( Junior) One (1)	M.sc. (physics) 1 <sup>st</sup> Division.	Research Experience in Material Science/Nano science	R & D support for project	Research Initiative on Nano Devices & Nano Sensors (R-Nano)	31-03-2017 Rs. 16000/-	28 Years
10.0	Senior Project Fellow One (1)	M.Tech in nanotechnology With at least 1 <sup>st</sup> Division <b>Or</b> M.Sc. with 1 <sup>st</sup> Division in Physics +one SCI paper and 2 Years research experience	Experience in organic semiconductors and thin film deposition	Synthesis of organic semiconductor and fabrication and characterizations of OLED/OLET	Efficient silicon photovoltaic with smart electronics and lighting	31-03-2017 Rs. 18000/ PM +HRA	28 Years

11.1	JRF One (1)	M.Sc. Physics 1 <sup>st</sup> Division with One year research experience <b>Or</b> M.Tech in Material Science with 1 <sup>st</sup> Division	Experience in low temperature physics	Experimental and analysis of low temperature studies.	Studies of electron correlations at low temperatures and high magnetic fields in tailored interfaces and heterostructures.	04.12.2017  Rs.16000/+ 30%HRA	28 Years
11.2	RA One (1)	Ph.D. Low temperature Physics with 1 <sup>st</sup> Division at PG Level.	Experience in low temperature physics & operation of Dry dilution refrigerator and UHV system (MBE type)	Experimental and analysis of low temperature studies.	Studies of electron correlations at low temperatures and high magnetic fields in tailored interfaces and heterostructures.	04.12.2017  Rs.24000/+ 30%HRA	32 Years
12.0	RA One (1)	Ph.D. (Physics/Material Science), thesis submitted <b>Or</b> Awarded	Experience in low temperature condensed matter physics and superconducting materials research.	Research Work- Search for new superconductors	“DAE-SRC outstanding investigator Award Fellowship-Search for new superconductors’	21.08.2017  Rs.21000/+ 30%HRA	32 Years
13.0	Research Associate (RA) One (1)	PhD(Physics/Material Science/Nano science/nanotechnology	Experience in fabrication on Nanoparticle/nanostruc tures, Nanoscale measurement etc	Nanoscale measurements and nanostructure	Generic Development of Nano metrology for Nanotechnology at NPLI	31-12-2014  Rs. 18000 +HRA	32 Years
14.0	SRF Two (2)	M.Sc. (Phys.) with 1 <sup>st</sup> Division and 2 year research experience <b>Or</b> M.Tech (Environmental Science) with Phys./ 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.	30-01-2015  Rs. 18000/ -	30 Years
15.1	RA One (1)	Ph.D. in Physics/Material Science/Nano Science /Electronics in the area of materials & solar cells	Nil	Fabrication of amorphous & micro/Nano crystalline silicon solar cells & its analysis	R&D on thin film Solar Cells	14-06-2015  Rs. 26000/ (Fixed) (1 <sup>st</sup> & 2 <sup>nd</sup> Year)  Rs. 28600 (Fixed) after two years	32 Years

15.2	Jr. Research Fellow Four (4)	M.Sc. Physics /Electronics/Material Science/Nano science with 1 <sup>st</sup> Div.	Nil	Deposition and characterization of amorphous & micro/Nano crystalline silicon and CIGS films & its analysis for the fabrication of efficient solar cells	R&D on thin film Solar Cells	14-06-2015  Rs. 20800/(Fixed) (1 <sup>st</sup> & 2 <sup>nd</sup> Year ) Rs. 23400 (Fixed)	28 Years
15.3	Project Assistant One (1)	M.Sc. Physics /Material Science/Nano science with 1 <sup>st</sup> Div.	Nil	Deposition and characterization of thin films for solar cells	R&D on thin film Solar Cells	14-06-2015  Rs. 15000 (1 <sup>st</sup> & 2 <sup>nd</sup> Year ) Rs. 16000 after two years (Fixed)	28 Years
15.4	Project Assistant One (1)	M.Sc. Physics with 1 <sup>st</sup> Division	NA	Experimental and secretarial work	Standardization for Nano science and Technology: Spreading its Awareness in India and Participation in International Organization for Standards (ISO) Activities on Nano metrology.	04.10.2014  Rs. 14000 (Rs 8000** approved +additional Rs. 6000 Sanctioned by (DNPL)	28 years
16.0	JRF Two (2)	M.Sc. (Physics) with 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.	17-10-2014  Rs. 16000/- + 30% HRA PM	28 Years.
17.0	Research Intern One (1)	M.Sc. Physics /Nanotechnology with minimum 60% Marks	Nil	Under CSIR Diamond Jubilee award scheme	---	Rs. 15000/- Per Month for 2 Years	25 Years (25 Years for male & 30 Years for SC/ ST/OBC /Female candidate

## DAY 2 (18/04/2013)

18.0	Project Assistant One (1)	M.Sc. chemistry or engineering Degree in Mechanical/Chemical/Instrumentation (1st Division or equivalent)	NA	Running Vacuum system, glass blowing, Simulations & Analysis on Atomic Clocks, and handling glassware for Developing a Rubidium Atomic Clock for Space	Development of Rubidium Atomic Clock	13.11.2013 Rs. 15000/- PM + 30% HRA	28 Years
19.0	Project Assistant One (1)	M.Sc. Chemistry 1 <sup>st</sup> Division /M.Tech (Nano science and Technology	NA	Experimental and secretarial work	Standardization for Nano science and Technology: Spreading its Awareness in India and Participation in International Organization for Standards (ISO) Activities on Nano metrology.	04.10.2014 Rs. 14000 (Rs 8000** approved +additional Rs. 6000 Sanctioned by (DNPL)	28 years
20.0	Project Assistant One (1)	M.Sc. with 1 <sup>st</sup> Div. in Chemistry/ M.Tech. Chemical with 1 <sup>st</sup> Div.	Experience in Organic synthesis	Synthesis of Organic photovoltaic materials and devices fabrication	Fellowship for INSPIRE Faculty	02-10-2017 Rs. 16000 +HRA	28 years
21.0	Project Fellow ( Senior) One (1)	M.Tech. 1st class (Material science/ Nanoscience )	Research Experience in Material Science/Nanoscience	R & D support for project	Research Initiative on Nano Devices & Nano Sensors (R-Nano)	31-03-2017 Rs.18000+ HRA	30 Years
22.0	Project Fellow One (1)	M.Sc. (Chemistry ) with 1 <sup>st</sup> Division with NET/GATE+1 year experience	Experience in development of carbon anodes for Li-ion battery	Development of battery anode material followed by detail characterization	Innovative solutions for solar energy storage	23-10-2017 Rs.16000+ HRA	28 Years
23.0	Research Staff One (1)	M.Sc. Chemistry with 1 <sup>st</sup> Division	M.Sc. 1 <sup>st</sup> Division in Organic and inorganic Chemistry	Research , synthesis & characterization of inorganic compounds	Fellowship for INSPRIE faculty	20.11.2017 Rs.16000/+ HRA	28 Years
24.1	Sr. Project Asstt. One (1)	M.Sc. (Biotechnology) 1 <sup>st</sup> Division + three years research experience in Biosensor with minimum three papers	Knowledge and experience on DNA Biosensors	Biosensor Fabrication	Center on Biomolecular Electronics	05-02-2014 Rs. 18000/ - (Fixed)	32 Years

24.2	Project Asstt. One (1)	B.Tech.Biotechnology Or Equivalent with 1 <sup>st</sup> Div.	Knowledge on sensors	Biosensor Fabrication	Center on Biomolecular Electronics	05-02-2014  Rs. 14000/- (Fixed)	28 Years
24.3	Project Asstt. One (1)	B.Tech. (Chemical Engineering) with 1 <sup>st</sup> Division	Knowledge on sensors	Biosensor Fabrication	Center on Biomolecular Electronics	05-02-2014  Rs. 14000/- (Fixed)	28 Years
24.4	Sr. Project Asstt. One (1)	B.Tech. ( Electrical Engineering) 1 <sup>st</sup> Division	Knowledge on sensors	Biosensor Fabrication	Center on Biomolecular Electronics	05-02-2014  Rs. 14000/- (Fixed)	28 Years
24.5	Sr. Project Asstt. One (1)	B.Tech. ( Electronics Engineering) 1 <sup>st</sup> Division	Knowledge on sensors	Biosensor Fabrication and electronic circuit for sensor devices	Center on Biomolecular Electronics	05-02-2014  Rs. 14000/- (Fixed)	28 Years
25.1	Research Intern One (1)	BE/B.Tech. with minimum 60 marks in Electrical /Electronics Eng.	Nil	Under CSIR Diamond Jubilee award scheme	---	Rs. 15000/- Per month for Two Years	25 Years (25 Years for male & 30 Years for SC/ ST/OBC /Female candidate
25.2	Research Intern One (1)	M.Sc. Chemistry with 60% Marks	Nil	Under CSIR Diamond Jubilee award scheme	---	Rs. 15000/- Per month for Two Years	25 Years (25 Years for male & 30 Years for SC/ ST/OBC /Female candidate
26.1	Skilled Manpower Two (02)	Graduate + One Year Diploma in Hardware and networking from reputed institute	One year experience in PC and printer Hardware upkeep. Preference will be given those who have experience in Govt. Sectors.	---	---	Rs. 12000/- PM (Fixed)	28 Years
26.2	Skilled Manpower Two (02)	BCA with First Division	One Year Experience in Software Handling / Data Entry	---	---	Rs. 12,000/- PM (Fixed)	28 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 two years and have atleast cleared CSIR-UGC Lecturership (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

### **For Post Code(s) : 1.0 to 25.2**

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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 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.

### **For Post Code 26.0**

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 between **09.00 AM to 10.00 AM** (candidate will not be entertained after 10.00 AM under any circumstance) in the TEC Building 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.**

Controller of Administration

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