



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

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

(Council of Scientific & Industrial Research)

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



Advertisement No. 0 4/2012

“FLOATING (WALK-IN) INTERVIEW ON 03rd & 04th July 2012

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: 03.07.2012- Physics

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 04.07.2012
1.1	Senior Project Fellow 03 (Three) (NWP-55)	M.Tech(Electronics).with 60% marks OR M.Sc. Physics/ Electronics) with minimum 55% marks and post M.Sc. 2 years R&D experience + one publication in SCI journal	Knowledge of semiconductor physics/technology and preferably in silicon device fabrication and characterization	Development of silicon solar cells	Efficient silicon photovoltaics with smart electronics and lighting systems	31.03.2017 Rs.18000+HRA	32 years
1.2	Project Fellow 01 (one) (NWP-55)	M.Sc(Physics) with 55% marks with NET qualified	Knowledge of semiconductor physics/ technology	Development of silicon solar cells	Efficient silicon photovoltaics with smart electronics and lighting systems	31.03.2017 Rs.16000+HRA	28 years

2.0	Project Assistant 01 (one) GAP-105432	Ist class M.Sc. Physics	Two years research experience in X-ray diffraction experiments	Experimental work in high resolution x-ray diffraction	A new high resolution X-ray Reflection Facility with unprecedented resolution and investigation to Nano layers and solid surfaces	31.12.2013 Rs.8000/-pm	30 years
3.0	Sr.Research Fellow 01 (one) GAP-123132	M.Sc. Physics with 60% marks+ 2 years post M.Sc.experience + one SCI paper	Experience in low temperature measurement technique. Thin film deposition technique such as PLD/Thermal deposition etc.	To deposit thin films of oxide using PLD and their characterization by different measurement tools	Two dimensional electron gas physics in oxide heterostructures	30.04.2015 Rs.18000+HRA	32 years
4.0	Project Assistant 01 (one) GAP-114432	M.Sc.Physics or Space Physics with 60%	Knowledge of Ionospheric physics, well versed in programming	Research related work	Comparative study of space weather at Terrestrial planets	07.02.2015 Rs.16,000/-p.m.	28 years
5.0	Project Fellow 02 (Two) NWP-55	M.Sc (physics) with 55% marks with NET qualified OR M.Sc. Tech,(Photonics)	Knowledge of handling equipments in ultra high vacuum	Growth of III-nitride multi-quantum well structure & their characterization	Efficient Silicon Photovoltaics with Smart electronics and lighting system (inorganic Light emitting diodes)	31.03.2017 Rs.16000+HRA	28 years
6.0	Project Fellow 01 (one) NWP-55	M.Sc (Physics)with 55% marks with NET qualified	Experience in organic semiconductors and thin film deposition	Synthesis of organic semiconductor and fabrication and characterization of OLED /OLET	Efficient silicon photovoltaics with smart electronics and lighting system (OLET)	31.03.2017 Rs.16000+HRA	28 years
7.0	Project Asstt-II 01 (one) GAP-113932	M.Sc Physics with 60% marks	--	Experimental work	Standardization for Nanoscience and Technology Spreading its awareness in India and participation in international organization for standards (ISO) activities on Nanometrology	04.10.2014 Rs.8000/-	28 years

8.0	Project Fellow 01 (one) NWP-54	M.Sc. Physics with 55% marks with NET qualified	Nano-materials study	Investigations in nano-structured hybrid and organic photovoltaic materials and devices	Novel approaches for solar energy conversion under TAPSUN programme	31.03.2017 Rs.16000+HRA	28 years
9.0	Sr.Reseach Fellow 02 (Two) GAP-114232	M.Sc. Phys./Maths + Net qualify for lecturership with 2 years experience Or M.Tech (Environmental Sci.) with Phys./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	30.01.2015 Rs.18000/-	32 years
10.1	Research Associate-I 02 (two) GAP-114132	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	17.10.2014 Rs.22000+HRA	35 years
10.2	Jr. Research Fellow 02 (Two) GAP-114132	M.Sc. (Physics) with 55% marks with NET 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+ HRA	28 years
11.1	Research Associate 01 (one) GAP-113532	Ph.D. in Physics/ materials science/ Electronics in the area of silicon based materials & solar cells	Experience in amorphous silicon solar cells and materials	Deposition and characterization of amorphous & micro/nano crystalline silicon films for solar cells	R&D thin film solar cells	14.06. 2015 Rs.26000/-pm (1 st & 2 nd year) (including HRA) Rs.28600/-PM (after two years) including HRA	35 years

11.2	Jr.Research fellow 04 (four) GAP-113532	M.Sc. Physics/ Electronics/ Materials Sci./Nano Sci. with 55% marks with NET qualified	Dissertation carried out in the area of vacuum deposited thin films + NET / GATE	Deposition and characterization of amorphous & micro/nano crystalline silicon films for solar cells	R&D thin film solar cells	14.06. 2015 Rs.20800/-pm (1 st & 2 nd year) (including HRA) Rs.23400/-PM (after two years) including HRA	28 years
11.3	Jr.Research fellow 02 (two) GAP-113532	M.Sc. Physics/ Electronics/ Materials Sci./Nano Sci/ Chemistry with 55% marks with NET qualified	Dissertation carried out in the area of thin films + NET / GATE	Deposition and characterization CIGS layers using nano-ink printing and physical vapour and physical vapour deposition processes for solar cells	R&D thin film solar cells	14.06. 2015 Rs.20800/-pm (1 st & 2 nd year) (including HRA) Rs.23400/-PM (after two years) including HRA	28 years
11.4	Project Assistant 02 (Two) GAP-113532	M.Sc. Physics/ Materials Sci./Nano Sci. with 60% marks	Dissertation carried out in the area of vacuum deposited thin films	Deposition and characterization of amorphous & micro/nano crystalline silicon films for solar cells	R&D thin film solar cells	14.06. 2015 Rs.15000/-pm (1 st & 2 nd year) (including HRA) Rs.16000/-PM (after two years) including HRA	28 years
11.5	Project Assistant 01 (one) GAP-113532	M.Sc. Physics// Materials Sci./Nano Sci. with 60% marks	Dissertation carried out in the area of thin films	Deposition and characterization CIGS layers using nano-ink printing and physical vapour and physical vapour deposition proecess for solar cells	R&D thin film solar cells	14.06. 2015 Rs.15000/-pm (1 st & 2 nd year) (including HRA) Rs.16000/-PM (after two years) including HRA	28 years

12.0	Sr. Project Fellow 01 (one) GAP-090532	M.Sc. (Physics) with atleast 55% marks with 2 years experience + one SCI paper	Experience in low temperature condensed matter physics/material science	Project Research work	Investigation of pure and substituted rutheno-cuprate magneto superconductors in bulk and thin film at low temperature and high magnetic field	25.10.2012 Rs. 18000+HRA	32 years
13.0	Sr. Research Fellow 01 (one) P-81103 (Emeritus Scientist)	M.Sc.(Physics/Atmospher ic Science/Radio Physics/Radio Tech./Meterology with 55% marks with NET qualified + one SCI paper + 2 yr of research experience OR M.Tech in engg./Tech with at least 60% marks OR B.Tech with atleast 60% marks and 2 years of post B.Tech. research experience	Knowledge of radio science/ atmospheric sciences/ meterology / weather phenomena/ communication	Work related to generation of data and its analysis and interpretation	Radio environment characterization and radio propagation modeling over the Indian subcontinent	01.05.2014 Rs. 18,000/- +HRA	32 years
14.0	Sr. Project Fellow 02 (two) NWP-54	M.Sc with 55% marks with NET qualified. + one SCI paper + 2 year experience Or M.Tech in engg./Technology with at least 60% marks' Or B.Tech with at least 60% marks and 2 years of post B.Tech. research experience	Experience in synthesis & characterization of bulk alloys and nanocomposites	Development & characterization of thermoelectric materials with high figure of merit	TAP-SUN Project entitled,"Development of novel thermoelectric materials and devices for harnessing solar energy and waste heat".	31.03.2017 Rs. 18,000/- p.m.	32 years

15.1	Research Intern 04 (four)	M.Sc. in Physics with 60 % marks	Knowledge of solar cells, acoustic and ultrasonic, sol-gel technique, specialization in solid state physics.	--	Under CSIR Diamond Jubilee Award Scheme	Rs. 15000/- for 2 years	25 years (25 years for male and 30 years in case of SC/ST/OBC and female candidate)
15.2	Research Intern 01 (one)	M.Sc. in Atmospheric Physics/ Physics with 60% marks	Spectroscopy of atmosphere	--	Under CSIR Diamond Jubilee Award Scheme	Rs. 15000/- for 2 years	25 years (25 years for male and 30 years in case of SC/ST/OBC and female candidate)

Day 2: 04/07/2012 – Chemistry & all Engg. fields

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 04/07/2012
16.0	Senior Research Fellow 01 (one) (GAP-090132)	B.Tech.(Electronics/ Instrumentation with atleast 60% marks and 2 years research experience	Design of circuits and coding of microprocessor	Fabrication and testing of devices	Development of Acoustic Equipment for Object Detection.	31.12.2012 Rs. 18000+HRA	32 years
17.0	Project Assistant 02 (Two) CLP-003732	Ist class B.Tech (Instrumentation /Electrical/Electronics & Comm.)	Quality System, Project monitoring	Monitoring of program, prepare reports, protocols etc. Analysis and compilation of data	Inter-laboratory comparison proficiency testing under NABL-NPL	31.12.2012 Rs. 18,000/-	30 years

18.0	Sr.Project Fellow 01 (one) NWP-55	M.Tech.in engg ./nano- technology with at least 60% marks OR M.Sc with atleast 55% marks with 2 years of post M.Sc.research experience .+ one SCI paper.	Knowledge of handling equipments in ultra high vacuum	Growth of III-nitride multi-quantum well structure & their characterization	Efficient Silicon Photovoltaics with Smart electronics and lighting system (inorganic Light emitting diodes)	31.03.2017 Rs.18000+HRA	32 years
19.0	Sr.Project Fellow 02 (Two) NWP-55	M.Tech with atleast 60% marks OR M.Sc with atleast 55% marks with 2 years of post M.Sc. research experience + one SCI paper	Experience in organic semiconductors and thin film deposition	Synthesis of organic semiconductor and fabrication and characterization of OLED /OLET	Efficient silicon photovoltaics with smart electronics and lighting system (OLET)	31.03.2017 Rs.18000+HRA	32 years
20.0	Jr.Research Fellow 01 (one) GAP-114732	M.Sc.Physics/ Physical Chemistry /environmental sci.) with 55% marks with NET	--	To collect and analysis of VOC using Gas chromatograph and operation of Analysers (O ₃ ,CO,NO _x etc)	Study of seasonal variation of ozone precussors in relation with surface ozone over delhi, a mega city	11.03.2015 Rs.12000+HRA	28 years
21.0	Project Asstt.II 01 (one) GAP-105532	M.Sc. (Chemistry /Physics) with 60% marks	Experience in climate change research	To help in the assessment of future climate change impacts on heat stress vulnerability	Preparation of energy sector GHG emission inventory and assessment of heat stress vulnerability under future climate change scenarios in India	15.08.2013 Rs.14000+HRA	28 years
22.0	Project Asstt-II 01 (one) GAP-113932	M.sc Chemistry with 60% marks	--	Experimental work	Standardization for Nanoscience and Technology Spreading its awareness in India and participation in international organization for standards (ISO) activities on Nanometrology	04.10.2014 Rs.8000/-	28 years

23.0	Project Fellow 01 (One) NWP-56	M.Sc Chemistry with 55% marks with NET qualified (LS) OR M.Tech in Nano Technology/ Polymer Science with 60% marks	Knowledge in the area of batteries is desired	R & D work related to project	Innovative solutions for solar energy	31.03. 2017 Rs.12000+HRA for NET(LS) Rs.16000+HRA (for M.Tech.)	28 years
24.1	Jr.Research Fellow 01 (one) GAP-081132	M.Sc.Chemisry with 1 st Div.	M.Sc.Chemisry with 1 st Div. with knowledge in biology	Fabrication of Biosensors	Setting up of the Center on Biomolecular Electronics	05.02.2014 Rs.16,000/-	28 years
24.2	Research Associate 01 (one) GAP-081132	M.Sc and Ph.D. in chemistry	M.Sc and Ph.D. in chemistry and experience in Biosensor fabrication	Fabrication of Biosensors	Setting up of the Center on Biomolecular Electronics	05.02.2014 Rs.22,000/-	35 years
25.0	Project Fellow 01 (one) NWP-55	M.Tech.(Nanotechnology) or equivalent	Experience in Materials Science, synthesis of nanoparticles	To synthesize nanoparticles of luminescent materials and make thin films	Efficient Si Photovoltaics with smart electronics and light systems under TAPSUN program	31.03.2017 Rs.18000+HRA	28 years
26.0	Research Intern 04 (Four)	B.E./B.Tech with computer Sci./Electronics	Online database management/ knowledge of digital circuits interfaced to microcontrollers/ software programming C/C++ etc.	--	Under CSIR Diamond Jubilee Award Scheme	Rs.15000/- for 2 years	25 years (25 years for male and 30 years in case of SC/ST/OBC and female candidate)
27.0	Research Intern 01 (one)	M.Sc in Polymer chemistry with 60% marks	Knowledge of conducting polymer	--	Under CSIR Diamond Jubilee Award Scheme	Rs.15000/- for 2 years	25 years (25 years for male and 30 years in case of SC/ST/OBC and female candidate)


General Conditions :-

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 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 TA/DA: Project staff will be entitled for TA/DA as per JRF, SRF and RA respectively while on official tour.
- 2.4 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.
- 2.5 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.
- 2.6 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 between 08.30 AM to 09.30 AM (candidate will not be entertained after 09.30 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 from time to time on the subject.

NO TA will paid to the candidates for appearing in the interview.

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


Controller of Administration
