



सीएसआईआर-राष्ट्रीय धातुकर्म प्रयोगशाला
 CSIR-NATIONAL METALLURGICAL LABORATORY
 (Council of Scientific & Industrial Research)
 जमशेदपुर / Jamshedpur-831007
Advertisement No.:T/PS/01/2024



A Walk-In-Interview/Test will be held from **22-07-2024 to 25-07-2024** at **CSIR-NML, Burmamines, Jamshedpur** for selecting suitable candidates for engagement on purely temporary basis as Research Associate-I Project Associate-I/Project Associate-II/ /Project SRF/Project JRF/ Project Assistants, Scientific Administrative Assistant, etc. at different levels for various projects. Details are given below :

Sl. No	Project No.	Position/ Level	No. of Post	Essential Qualification	Desirable (if any)	Project Name	Walk-In-Interview Date
1	GAP-0313	Project Associate-I	1	M. Sc.in Chemistry	NIL	Development of efficient bi-functional electrocatalyst of transition metal for anion exchange membrane (AEM) based alkaline water electrolyser, scale-up and prototype fabrication of membrane electrode assembly (MEA)	GROUP -A 22-07-2024
2	GAP - 0319	Project Associate -I	1	M.Sc. in Chemistry	NIL	"Large-scale production of M ₂ AX (M=Ti/V, A=Al, & X=C) type MAX and corresponding MXenes based electrodes for developing aqueous electrolyte based coin and cylindrical supercapacitors".	
3	TMP-0244	Project Associate - I	3	B.E/B. Tech. In Metallurgical Engineering or M. Sc. In Chemistry	NIL	Development of Zn-Al-Mg based hot dip coating for steel strips.	
4	GAP-305	Project Associate - I	1	M.Sc. in Chemistry	NIL	Centre for Excellence in Wear and Corrosion Resistant Coatings Technology	
5	GAP-305 (WP-5)	Project Associate - I	1	B.E/B.Tech in Metallurgical Engineering or M.Sc. in Chemistry	NIL	Centre for Excellence in Wear and Corrosion Resistant Coatings Technology sponsored by DST	

6	SSP-1335	Project Associate - I	1	M.Sc. in Chemistry	NIL	Analysis and evaluation of GSI NGCM -J soil and sediments samples	GROUP -B 22-07-2024	
7	GAP-0315	Project Associate - I	1	B.E/B.Tech in Chemical Engineering/Mineral Engineering/Metallurgical Engg/Mechanical Engg Or M.Sc. in Chemistry	NIL	Development of process for Beneficiation of Lean grade iron ores with less than 45% Fe content		
8	GAP-0306	Project Assistant	2	B.Sc. in Chemistry	NIL	E-waste Recycling (Meity, GOI)		
		Project Associate-I	2	M.Sc. in Chemistry				
9	GAP-285	Project Associate-I	2	B.E/B. Tech. in Chemical/Metallurgy Engineering	NIL	Hot stage engineering of copper smelter slag for recovery of iron and subsequent use of resulting slag in blended cement		
10	OLP 9010	Project Associate-I	1	M.Sc. in Geology	NIL	MNP Division		GROUP -C 22-07-2024
11	OLP 9001	Project Associate – I	1	M.Sc. in Geology	NIL	Quality evaluation of coal explored from different regions of India		
12	OLP 9011	Scientific Administrative Assistant	3	B.Sc.(IT)/BCA	NIL	RPBD Divisional OLP		GROUP -D 23-07-2024
13	OLP 9008	Scientific Administrative Assistance	1	B.Sc. (IT)/ BCA	NIL	Divisional Project		
14	OLP 9003	Project Assistant	1	3 years Diploma in Computer Science	NIL	Development and services of metallurgical base CRMs for business promotion		

15	HCP 0101	Project Associate – I	1	B.E/B. Tech in Metallurgy/ Chemical Engineering Or M.Sc. in Chemistry/Material Science	NIL	Jigyasa 2.0 Programme: Virtual Lab Integration 2.0	GROUP -E 23-07-2024
16	GAP 0308	Senior Project Associate	1	PhD in Chemistry/ Chemical engineering/ Metallurgy/ Material Science.	NIL	Science Technology and Innovation hub in village Gamaria, Saraikella, Kharsawan Block, West Singhbhum Jharkhand	
17	SSP 1402	Project Associate – I	2	M.Sc. in Chemistry	NIL	Analytical Method Development and Chemical Analysis of Western Region NGCM Samples	
18	SSP 1348	Project Associate - I	2	M.Sc. in Chemistry	NIL	Lithological Study of Borehole Coal Cores of Gare-Pelma Sector- III Coal Block, Mand Raigarh Coal Field, Chhattisgarh through Chemical and Physical Characterization	
19	SSP 1332	Project Associate - I	1	M. Sc. in Chemistry	NIL	Chemical Analysis and Characterization of Band by Band Coal of Ib Valley Coalfield	
20	OLP 9003	Project Associate - I	2	M.Sc. in Chemistry	NIL	Development and services of metallurgical base CRMs for business promotion	
21	SSP 1372	Project Assistant	1	3 years Diploma in Mechanical Engineering	NIL	Evaluation and assessment of field withdrawn CBC components	
22	OLP 9003	Project Assistant	1	3 years Diploma in Mechanical Engineering	NIL	Development and services of metallurgical base CRMs for business promotion	

23	FTT 080511	Project Assistant	1	3 years Diploma in Metallurgical / Materials and Metallurgical / Metallurgical and Materials / Mechanical Engineering	Nil	Pilot Upscaling of Indigenously Developed Ultrahigh Strength Armour Steel with Excellent Toughness	GROUP -G 24-07-2024
24	FBR 080308	Project Assistant	1	3 years Diploma in Metallurgical Engineering/Mechanical Engineering/Metallurgical and Materials Engineering	NIL	Unravelling the fundamental correlation of transformation pathway with mechanical and corrosion properties of multicomponent nano-pearlitic steels	
25	TMP-0247	Project Associate - I	1	B.E/B. Tech. in Metallurgical Engg./ Chemical Engg. Or M.Sc in Chemistry/Environmental Science	NIL	Technological intervention in the Dokra handicrafts for increased productivity, aesthetic and quality	
26	SSP-1368	Project Associate - II	1	B.Tech in Mechanical Engineering and 2 years' experience in Research and Development in Industrial and Academic Institution or Science and Technology Organizations and Scientific activities and services	NIL	Exploratory studies on creep crack growth rate behavior of GTM Su 718 alloy	
27	SSP-1326	Project Associate - I	1	B.E./B. Tech. in Mechanical Engineering or Materials Engineering or Metallurgical and Materials Engineering	NIL	Preliminary Fatigue Crack Growth Rate and Fracture Toughness Testing at High Temperatures	GROUP -H 24-07-2024
28	GAP 0298	Project Associate - I	1	B.E/B. Tech. in Mechanical /Metallurgy/ Production Engineering	NIL	Investigation on weld ability of 8 and 20 mm thick high nitrogen steel with strength of about 800 - 1200 MPa	
29	GAP 302	Project Associate- II	1	B.E/B.Tech in Mechanical/Metallurgy and 2 years' experience in Research and Development in Industrial and Academic Institution or Science and Technology Organizations and Scientific activities and services	NIL	Intelligent Defect Detection and Classification Technique for Welded Assembly	

30	HCP-048	Project Associate - I	2	B. Tech/B.E in Chemical/Metallurgical Engineering.	NIL	CO2 Capture (CC) by Amine Absorption Process with Sequestration by Modified Mineral Carbonation (MC) and Recovery of Marketable Products and Waste Heat (WH)- A Holistic Technology Development Approach	GROUP - I 25-07-2024
31	TMP-0245	Project Assistant	1	B.Sc. in Chemistry	NIL	Self-healing geopolymer	
		Project Associate - I	1	B.E/B. Tech in Metallurgy/Chemical Engineering			
32	NCP 080301	Project Associate - II	1	BE/B.Tech in Metallurgy/Material Science and 2 years' experience in Research and Development in Industrial and Academic Institution or Science and Technology Organizations and Scientific activities and services Or M.Sc. in Physics and 2 years' experience in Research and Development in Industrial and Academic Institution or Science and Technology Organizations and Scientific activities and services	NIL	Development of Gas Atomized Iron Alloy Powders for Soft Magnetic Core Applications	
33	FTT 080511	Project Associate - II	1	B.E. / B. Tech. in Metallurgical / Materials and Metallurgical /Mechanical Engineering and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services.	NIL	Pilot Upscaling of Indigenously Developed Ultrahigh Strength Armour Steel with Excellent Toughness	

34	FBR080307	Project Associate - I	1	B.E./B. Tech in Metallurgy/ Material Science Or M.Sc. in Physics	NIL	Development of Rare-Earth free Anisotropic α' -Fe16N2 hard Magnetic Material	GROUP -I 25-07-2024
35	SSP 1372	Project Associate - I	1	B.E. / B. Tech in Metallurgy /Mechanical Engineering.	NIL	Evaluation and assessment of field withdrawn CBC components	
36	GAP 0305 (WP-09)	Project Associate - I	1	B.E. / B.Tech. in Metallurgical / Materials and Metallurgical / Mechanical Engg. Or M.Sc. in Physics/ Chemistry.	NIL	Centre for Excellence in Wear and Corrosion Resistant Coatings Technology sponsored by DST	
37	GAP 0305 (WP-10)	Project Associate - I	1	B.E. / B.Tech in Metallurgical / Materials and Metallurgical / Mechanical Engg.	NIL	Centre for Excellence in Wear and Corrosion Resistant Coatings Technology sponsored by DST	
38	FBR 080308	Project Associate - I	1	B. Tech in Metallurgical Engineering/Metallurgical and Materials Engineering	NIL	Unravelling the fundamental correlation of transformation pathway with mechanical and corrosion properties of multicomponent nano-pearlitic steels	GROUP -J 25-07-2024
		Project Associate - II	1	M.Sc. in Chemistry and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services. Or B.E/B.Tech in Metallurgical Engineering and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services.	NIL		

39	GAP 300	Research Associate - I	1	PhD in Metallurgy/ Material Science/Mechanical Engineering with at least one research paper in SCI journal. Or M.E/M.Tech in Metallurgy/ Material Science/Mechanical Engineering with 3 years experience and at least one research paper in SCI journal.	NIL	Grain Boundary engineering for austenitic stainless steel processed by selective laser melting
40	GAP 0314	Project Associate - I	1	B.E/B .Tech in Metallurgical Engineering	NIL	Upgradation of lean grade ore/ slimes through reduction roasting to develop blast furnace grade pellet
41	HCP-54- WP-15	Project Associate-I	1	B. Tech in Metallurgy/Chemical Engg. Or M.Sc. in Chemistry/Material Science)	NIL	Rare Earth Recovery from Waste Magnet (NdFeB)– Waste Scrap to Metal/oxide/salt Product
		Project Assistant	2	B.Sc. in Chemistry	NIL	
42	GAP 310	Junior Research Fellow	1	B.E/B.Tech. in Mechanical/ Metallurgy/ Chemical Engg. with GATE OR M.Sc in chemistry with GATE/ NET	NIL	Process Development for Refining Commercial Magnesium Metal through Vacuum Distillation in Semi- Continuous Mode at 5- 6 kg Scale
		Project Associate - I	2	B. Tech. in Chemical Engineering/Material and Metallurgical Engineering/ Mechanical Engineering or M.Sc. in Chemistry	NIL	
43	GAP- 0317	Project Associate - II	1	B.E./ B. Tech in Metallurgy/ Mechanical and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services.	NIL	Guided wave nonlinear ultrasonic and wave mixing techniques to assess fatifue damage in Al-Mg-Sc alloy.

GROUP -J
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44	GAP 0318	Project Associate - I	1	M.Sc. in Physics Or B.Tech./B.E in Metallurgy/Materials Science	NIL	Thermal Stability of Nanocrystalline Cu-Nb Binary alloy thin films: Phase separation, Microstructure, Residual Stress and Crystallographic texture
		Junior Research Fellow		M.Sc. in Physics with NET Or B.Tech./B.E in Metallurgy/Materials Science with GATE		
		Senior Research Fellow		M. Tech. in Materials Science/Metallurgical & Materials Engg.) with minimum 60% marks from a UGC recognized University/institute OR M. Sc.(PHYSICS) having minimum 55% marks and two years relevant research Experience with one publication in peer reviewed international journal OR 1st class B.Tech (Metallurgy & Materials Engg.) having two years relevant research Experience with one publication in peer reviewed international journal		
45	FTT 040507	Project Associate-II	1	B.E/B. Tech in Electronics and Communication/Instrumentation or equivalent from a recognized university and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services. Or M.Sc. in Physics and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services.	NIL	Low Temperature Co-fired Ceramic (LTCC) based eddy current sensor for Real-time health monitoring of power plant components

GROUP -K
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46	NCP010302	Project Associate II	1	B.E/B.Tech in Electronics/Electrical/Instrumentation/Computer Science and Two years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific Activities and services.	NIL	Ultra-precise on-machine metrology (OMM) system for optical fabrication of freeform optics	GROUP -K 25-07-2024
47	GAP 305	Project Associate - I	1	B.E/B. Tech in Metallurgical Engineering / Mechanical Engineering/ Metallurgical and Materials Engineering	NIL	Surface Modification by Ultrasonic Shot Peening To Mitigate Stress Corrosion Cracking of 304L and 304LN under the Centre for Excellence in Wear and Corrosion Resistant Coatings Technology sponsored by DST	
48	SSP-1416	Project Assistant	1	B.Sc. in Chemistry	NIL	Value recovery from spent stainless steel pickle liquor	GROUP -L 25-07-2024
49	FTT 080512	Project Associate - 1	3	B.E/B. Tech in Metallurgy/ Chemical Engineering Or M.Sc. in Environmental Science / Chemistry	NIL	Extraction of Vanadium as high Pure V2O5 & Ni Salt from Coal/Coke Gasification Cinder	
50	FTT 080512	Project Assistant	2	3 years Diploma in Metallurgical Engineering/ BSc Chemistry	NIL	Extraction of Vanadium As High Pure V2O5 & Ni Salts from Coal/Coke Gasification Cinder	

Upper age limit (as on date of Interview) & Emolument details:

Level	Emoluments (Rs)	Upper Age Limit	Remarks
Scientific Administrative Assistant/Field Worker	18000/- + HRA	50	-
Project Assistant/ Field Assistant	20000/- + HRA	50	-
Project Associate-I	25000/- / 31000/-* +HRA	35	*candidates who have qualified National Eligibility Tests-CSIR- UGC NET including lectureship“(Assistant Professorship)” or GATE Or Selected through National level examinations conducted by Central Government Departments and their Agencies and Institutions
Project Associate-II	28000/- 35000/-* +HRA	35	
Senior Project Associate	42000/-+HRA	40	Age Criteria as per CSIR norms.
Research Associate-I	58000/-+HRA	35	Age Criteria as per CSIR norms.
Project SRF	42000/-+HRA	32	As per guidelines of funding agencies
Project JRF	37000/-+HRA	28	As per guidelines of funding agencies

Interested candidates (Indian Nationals Only) fulfilling the criteria towards age, educational qualifications etc. as detailed above may apply as per the instructions given below in **Terms & Conditions**.

Terms & Conditions:

- Candidates who have already served at CSIR-NML or any other lab/institute of CSIR as Project Staff such as Scientific Administrative Assistant/Field Worker/ Laboratory Assistant/Technician/Project Assistant/Technical Assistant/Field Assistant/Project Associate-I/Project Associate-II/Senior Project Associate/Principal Project Associate/Project Scientist I/Project Scientist II/ Project Scientist III PI/ /Project Manager/Project Fellow/JRF(in contract R&D Projects)/SRF (in contract R&D Projects)/Research Associate, etc. or as any other designation of equal status for a total period of 5 years or more are not eligible for these engagements. The candidates who have served for a period less than 5 years will have tenure upto remaining period till completion of five years.
- The tenure may be extended for the duration of Project based on satisfactory performance. The total tenure as Scientific Administrative Assistant/Field Worker/ Laboratory Assistant/Technician/Project Assistant/Technical Assistant/Field Assistant/Project Associate-I/Project Associate-II/Senior Project Associate/Principal Project Associate/Project Scientist I/Project Scientist II/ Project Scientist III/ PI/Project Coordinator-I (For Non-Governmental/Voluntary Organisations)/PI/ProjectCoordinator-II(ForNon-Governmental/Voluntary Organisations)/Project Manager/Project Fellow/JRF(in contract R&D Projects)/SRF (in contract R&D Projects)/Research Associate etc. or as any other designation of equal status shall not exceed 5 years in any case . The total tenure of five years shall be calculated as per periods spent on one Project and/or different Projects taken together in CSIR-NML, and/or any other Lab./Instt. of CSIR as Scientific Administrative Assistant/Sr. Project Associate/Project Associate-I/II /Project Assistant, etc. or as any other designation of equal status.
- Upper Age limit as on date of Walk-in-Interview is relaxable for five years in the case SC/ST/OBC/Women/Persons with Disabilities (PWD) except Research Associate, SRF & JRF.
- The engagement of the Project Staff will be subject to the availability of the fund.
- Tenure of appointment in CSIR-NML under one or more projects will be co-terminus with the tenure of the respective projects or attainment of 5 years of engagement whichever is earlier.
- All of the above positions are purely temporary and on contract basis. It would, therefore, not confer any right/claim, implicit or explicit, for consideration/absorption against any Permanent post of CSIR-NML/CSIR.
- Hindi may be used as a medium of conversation during the interview.

8. The Government strives to have a workforce that reflects gender balance, and women candidates are encouraged to apply.
9. In case where PhD. has been mentioned as essential qualification, it should be treated as PhD completed and certificate issued.
- 10. If the number of candidates for Walk-in-Interview is very high, then the Candidates will be shortlisted by a screening committee based on written test. Hence, the candidates who will qualify the written test only be eligible to appear in the interview.**
11. The candidates are advised to fill up the information in the prescribed Proforma carefully and correctly. A Separate Application form along with a recent colour passport photograph pasted on it and with self-attested copies of all relevant testimonials/certificates has to be submitted for each group.
12. If it is found at any stage of the recruitment process or thereafter that the candidates do not fulfil the eligibility criteria, their candidature shall be cancelled summarily without assigning any reason. Further, the decision of CSIR-NML in regard to selection process will be final and binding to all concerned. No correspondence in this regard will be entertained by the Institute.
13. Providing any false information may lead to ban in appearing for any future recruitment / engagement process in CSIR-NML and the same may be informed to other CSIR labs/Institutes, other Government Organizations/Agencies also
14. The number and levels of positions may increase or decrease at the time of actual selection or may be cancelled also. The engagement is for various time-bound projects viz., Grant-in-Aid / Sponsored Projects / In-house projects etc. which is co-terminus with the projects and may be extended or curtailed depending on the duration of the Projects, satisfactory performance/conduct of the appointee. It is not a regular appointment, temporary or otherwise and therefore it does not entitle the incumbent(s) any claim, implicit or explicit on any CSIR/CSIR-NML post.
15. CSIR-NML reserves the right to cancel or withdraw the Offer of engagement in case of any discrepancy found, in the candidature of any empanelled candidate at any stage.
16. All candidates will be required to follow COVID Guidelines issued by the Govt. during the interview process.
17. Other terms & conditions will be governed as per guidelines issued by the funding agency/CSIR-NML for the engagement of above Project Staff as amended from time to time.
18. Interested eligible candidates, who are Indian national and fulfil the above eligibility conditions, may report between **09-00 AM to 11-00 AM from 22-07-2024 to 25-07-2024 (as per the above mentioned schedule)** for Walk-in-Interview/Test at **CSIR-NML, Burmamines, Jamshedpur-831007 (Jharkhand)** with all certificates/documents in original in support of their qualifications/age/caste/experience(s) and duly completed application in the enclosed prescribed PROFORMA with a recent colour passport photograph pasted on it along with one self-attested copies of all relevant testimonials/certificates
19. Candidates are advised to constantly keep on visiting CSIR-NML Website at www.nmlindia.org for any update/change in the matter.

Administrative Officer