



सीएसआईआर—राष्ट्रीय धातुकर्म प्रयोगशाला  
CSIR-NATIONAL METALLURGICAL LABORATORY  
(Council of Scientific & Industrial Research)  
जमशेदपुर / Jamshedpur-831007



No. 2-NML(182)/2025-E-I

Date: 28.03.2025

Advertisement No.: T/PS/02/2025

A Walk-In-Interview/Test will be held on 08.04.2025 & 09.04.2025 at CSIR-NML, Burmamines, Jamshedpur for selecting suitable candidates for engagement on purely temporary basis as Project at different level against various time bound projects tenable at this Laboratory, as per details given below :

Sl. No.	Project No.	Position / Level	No. of Post	Essential Qualification	Project Name	Walk-In Interview Date
1.	HCP-048	Project Associate I (PAT-I)	2	B.Tech. in Chemical Engineering	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 A 08.04.2025
2.	MMP-085201	Project Associate I (PAT-I)	3	B.E/ B.Tech. in (Metallurgical Engg./ Chemical Engg.) or M.Sc. in Chemistry	Battery to Battery: Recovery of Metal Values from Spent Lithium Ion Batteries and Fabrication of New Lithium Ion Batteries-A Circular Economy Approach	
3.	GAP-0295	Project Associate-I (PAT-I)	1	B.E/B. Tech. in Chemical Engg. or M.Sc. in Chemistry/Environmental science	Recycling of graphite from spent Lithium ion batteries for LICs	
4.	GAP 0302	Student Internship (max two months)	1	Pursuing B.E/B.Tech (3rd Year) in Comp. Sc/Electronics/ Electrical	Intelligent Defect Identification and Classification Technique for Welded Assembly	Group B 08.04.2025
5.	GAP 0303	Student Internship (max two months)	1	Pursing M.Sc in (Physics / Electronics), B.Tech in (Metallurgy / Mechanical)	Hybrid Heusler Glassy Magnetic Alloy Composites for Caloric & Shape Memory Applications	
6.	GAP-0317	Student Internship (max two months)	1	B.E./ B.Tech (6th Sem.), Mechanical/ Metallurgy	Guided wave nonlinear ultrasonic and wave mixing techniques to assess fatigue damage in Al-Mg-Sc alloy.	
7.	GAP-0309	Student Internship (max two months)	1	B.E./B.Tech (3rd Year) in Metallurgical/Chemical/Mechanical/ Materials Engineering	Development of novel microstructure and inhibitors to combat molten salt corrosion of thermal energy storage materials in concentrated solar power plant	

8.	GAP-0306	Project Associate (PAT-I)	2	M.Sc. in Chemistry	E-waste Recycling Activities for informal sector
		Project Assistant-II (PA-II)	2	B.Sc. in Chemistry or 3 Years Diploma in Metallurgy Engineering/ Glass Blowing	
9.	GAP-0308	Project Assistant (PA-II)	2	B.Sc.in Chemistry/ Biotech	STI Hub in village Gamharia
		Senior PAT	1	MSc. in Chemistry/Material Science with 2 years experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific activities and services Or M.Tech in Material Science/metallurgy/chemical engineering or PhD in Chemistry/material science	
10.	SSP 1452	Project Associate-II (PAT-II)	1	M. Tech in Chemical / Fuel / Metallurgical Engineering	Assessment of coking coal quality with respect to active component present in coking coal
		Project Associate-I (PAT-I)	1	B. Tech in Chemical / Fuel / Metallurgical Engineering	
11.	SSP-1455	Project Associate-I (PAT-I)	2	M.Sc. in Chemistry	Evaluation of Coal characteristic of South Easter Coal field
		Project Assistant-II (PA-II)	1	B.Sc. in Chemistry	
12.	HCP002502	Project Assistant-II (PA-II)	1	3 years Diploma in Electronics & Communication or B.Sc. in Chemistry/Physics	CSIR-Integrated Skill Initiative Phase -III
		Project Associate-I (PAT-I)	1	MSc. Physics/Chemistry/Material Science or B.Tech Metallurgy/material Science/chemical Engineering	

Group C  
08.04.2025

13.	GAP 310	Project Assistant-II (PA-II)	2	B.Sc. in Chemistry	Process Development for refining commercial magnesium metal through vacuum distillation in semicontinuous mode at 5-6 kg scale
		Project Associate-I (PAT-I)	2	B.Tech in Chemical Engg./Metallurgy Or MSc. in Chemistry	
		Project JRF	1	B.Tech in Chemical, Metallurgy, Mechanical Engg with GATE/NET. Or MSc. in Chemistry with GATE/NET	
14.	HCP-54-WP-15	Project Associate-I (PAT-I)	1	M.Sc. in Chemistry Or B. Tech. in Chemical Engg. / Metallurgy	Rare Earth Recovery from Waste Magnet (NdFeB)- Waste Scrap to Metal/oxide/salt Product
		Project Assistant-II (PA-II)	1	B.Sc. in Chemistry/ Material Science Or Diploma in Chemical/ Metallurgy	
15.	GAP-0322	Project Associate-I (PAT-I)	1	M.Sc. in Chemistry Or B. Tech. in Chemical Engg. / Metallurgy	Scale up of a pyro hydrometallurgical process for holistic recycling of variable zinc dross high and low grade
		Project Assistant-II (PA-II)	1	B.Sc. in Chemistry / Material Science or Diploma in Chemical/ Metallurgy	
16.	MMP085202-WP-3	Project Assistant-II (PA-II)	2	B.Sc. in Chemistry/ Material Science Or Diploma in Chemical/ Metallurgy	Extraction of tin and antimony from lead-tin-antimony dross
17.	SSP 1402	Project Associate-I (PAT-I)	2	M.Sc. in Chemistry	Analytical Method Development and Chemical Analysis of Western Region NGCM Samples
		Project Associate-I (PAT-I)	2	M.Sc. Geology	
		Project Assistant-II (PA-II)	3	B.Sc. in Chemistry	
18.	SSP 1312	Project Associate-I (PAT-I)	2	M.Sc. in Chemistry	Quality Assessment of Coal Samples of WCL Ballarpur Sponsoring Organization: Western Coalfield Limited (WCL), Ballarpur
19.	SSP-1361	Project Associate-I (PAT-1)	1	M.Sc. in Chemistry/ Environmental science	Seam overall characteristics of coal sample of CMPDIL
		Project Assistant-II (PA-II)	1	B.Sc in Chemistry	

Group D  
08.04.2025

20.	OLP 9007	Project Assistant-II (PA-II)	1	B.Sc. in Physics / IT	Divisional OLP	Group E 08.04.2025
21.	CSIR CLAIM WP 3.3	Project Associate-I (PAT-I)	1	BE/B.Tech in Computer Science/IT/Electronics / Electrical / Electrical and Electronics Engg.	Process optimisation and predictive model development using AI for Steels	
		Project Associate-II (PAT-II)	1	BE/B.Tech in Computer Science/IT/Electronics / Electrical / Electrical and Electronics Engg. with 2 years experience		
22.	FTT-080511	Project Assistant-I (PA-I)	1	SSC/10th Plus ITI (Electrician)	Pilot Upscaling of Indigenously Developed Ultrahigh Strength Armour Steel with Excellent Toughness	
23.	OLP-09010	Project Assistant-II (PA-II)	2	B.Sc in Chemistry/Geology	MNP Divisional Project	Group F 09.04.2025
		Project Associate-I (PAT-I)	2	M.Sc. in Chemistry/ Environmental Chem./ M.Sc. Geology		
24.	GAP-0320	Project Associate-I (PAT-I)	2	M.Sc. in Chemistry/ Nanotechnology or B.E./B.Tech in Chemical Engg.	Technology development for synthesis of copper and nickel powders from WEEE for additive manufacturing applications	
25.	GAP-0292	Project Associate-I (PAT-I)	2	M.Sc. in Chemistry or B.E/B.Tech in Metallurgy/Chemical Engg.	Processing of tin slag for extraction of critical metals	
26.	MMP085201	Project Assistant-II (PA-II)	2	B.Sc. in chemistry or 3 Years Diploma in Metallurgy/Chemical Engineering	Battery to Battery: Recovery of Metal Values from Spent Lithium Ion Batteries and Fabrication of New Lithium Ion Batteries-A Circular Economy Approach	
27.	SSP-1438	Project Assistant-II (PA-II)	1	3 years Diploma in Mechanical Engineering	Structural Health Monitoring of Stainless Steel Superheater and Reheater Tubes Using a Magnetostrictive NDE Sensor	
28.	HCP 054/WP6/2	Project Associate-I (PAT-I)	1	Bachelor Degree in Metallurgical/Mechanical/Chemical Engineering	Development of a Process for the Production of Chromic Oxide from Chromite Beneficiation Plant Tailing	Group G 09.04.2025
29.	SSP 1431	Project Associate-I (PAT-I)	1	B.E./B.Tech. in Metallurgical Engineering or Materials Engineering	Evaluation of Debonding area in Connecting rods using Ultrasonic Image	
30.	SSP1433	Project Associate-II (PAT-II)	1	M.Tech in Metallurgical & Materials Engineering	Effect of heat treatment on creep behavior of different grades of Cr-Mo steels.	
31.	SSP 1437	Project Assistant-II (PA-II)	1	3 years Diploma in Mechanical Engg.	Creep behaviour of different grades of seamless steel S31035 and SS347HFG	

32.	GAP 0305 (WP-07)	Project Associate-I (PAT-I)	1	B.Tech in Metallurgical & Materials/ Mechanical/ Material Engg.	Surface Modification by Ultrasonic Shot Peening To Mitigate Stress Corrosion Cracking of 304L and 304LN under DST sponsor Center of Excellence in Wear and Corrosion Resistant Coatings Technology	Group G 09.04.2025
33.	GAP 0305 (WP-10)	Project Associate-I (PAT-I)	1	BE/B.Tech in Metallurgical Engg./Mechanical Eng/Metallurgical and Materials Eng/Material Science/Materials Engg.	"Wear and Corrosion Resistant Coatings for Railway Tracks (WP-10)" under Center of Excellence DST Project	
34.	GAP-0305 (WP-08)	Project Associate-I (PAT-I)	1	B.E./B.Tech in Metallurgical/ Materials/ Mechanical/ Chemical Engg.	Centre for Excellence in Wear and Corrosion Resistant Coatings Technology (WP-08)	
35.	GAP-0305 (WP-05)	Project Associate-I (PAT-I)	1	B.E./B.Tech in Metallurgical/ Materials or M.Sc. in Chemistry	"Wear and Corrosion Resistant Coatings (WP-05)" under Center of Excellence DST Project	
36.	GAP-0309	Senior Research Fellow (SRF)	1	B.E/B.Tech in Metallurgical Engineering/Chemical Engineering/Materials Engineering/Mechanical Engineering along with GATE and 2 years of research experience Or M.E/M.Tech. in Metallurgical Engineering/Chemical Engineering/Materials Engineering/Mechanical Engineering along with GATE	Development of novel microstructure and inhibitors to combat molten salt corrosion of thermal energy storage materials in concentrated solar power plant	
37.	FBR080308	Project Associate-II (PAT-II)	1	B. Tech in Metallurgical Engineering / M.Sc. in Chemistry with 2 years experience or M. Tech in Metallurgical Engineering	Unravelling the fundamental correlation of transformation pathway with mechanical and corrosion properties of multicomponent nano-pearlitic steels	Group H 09.04.2025
38.	FTT-080511	Project Associate-I (PAT-I)	1	B.E. / B.Tech. in Metallurgical Engg./Materials and Metallurgical Engineering/ Materials Engg.	Pilot Upscaling of Indigenously Developed Ultrahigh Strength Armour Steel with Excellent Toughness	
39.	CSIR CLAIM WP 3.3	Project Scientist – I (PS-I)	1	M.Tech. in Mechanical / Metallurgical / Materials and Metallurgical / Metallurgical and Materials Engineering and 4 years of experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organisations and Scientific Activities and services	Process optimisation and predictive model development using AI for Steels	
40.	GAP-0323	Project Associate-I (PAT-I)	2	B.Tech/B.E in Metallurgical Engineering/Chemical Engineering/Materials Engineering/Mechanical Engineering	Hot Corrosion behavior of Ni- Base and Co-Base superalloys using thermogravimetric and electrochemical methods	
41.	HCP-54 (WP-14)	Project Associate-I (PAT-I)	2	B.Tech in Metallurgy/ Chemical Engg. or M.Sc. in Chemistry	Process technology for the recycling of waste c-Si PV modules	
42.	GAP-0324	Project Associate-I (PAT-I)	1	B.E/B.Tech in Metallurgical Engineering	Decarburisation of High Carbon Ferro Manganese for Preparation of Low Carbon Ferro Manganese	
43.	SSP-1438	Project Associate-I (PAT-I)	1	M.Sc. in Physics/ Chemistry or B.Tech in (Metallurgy or Mechanical Engg)	Structural Health Monitoring of Stainless Steel Superheater and Reheater Tubes Using a Magnetic NDE Sensor	

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

Level	Emoluments (Rs.)	Upper Age Limit (as on date of Interview/Test)	Remarks
Project Assistant-I (PA-I)	18,000/- + HRA	35	Criteria as per CSIR norms.
Project Assistant-II (PA-II)	20,000/- + HRA	35	Criteria as per CSIR norms.
Project Associate-I (PAT-I)	25000/- +HRA 31000/-+HRA *	35	*candidates who have qualified National Eligibility Tests-CSIR- UGC /ICAR/ ICMR NET including lectureship “(Assistant Professorship)” or GATE
Project Associate-II (PAT-II)	28000/- +HRA 35000/-+HRA *	35	Or Selected through National level examinations conducted by Central Government Departments like DBT/ DST or equivalent their Agencies and Institutions
Senior-PAT	42000/-+HRA	40	Criteria as per CSIR norms.
Project Scientist-I	56000/-+ HRA	35	Criteria as per CSIR norms.
Project JRF	37000/-+HRA	28	As per guidelines of funding agencies.
Project SRF	42000/-+HRA	32	As per guidelines of funding agencies.
Student Internship	5000/-		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:**

The engagement of Project Staff which is on contract basis in respect of all the above positions which is against various time bound project tenable at this Laboratory, will confer no rights on the candidates, whatsoever, implicitly and / or explicitly for their continuation beyond tenure /absorption/ regularization in CSIR/CSIR-NML. The engagement shall be for short period and co-terminus with the project and may be terminated at any time by giving a notice of one month from either side or one-month stipend in lieu thereof.

The candidates who have already been engaged in CSIR-NML or any other Lab./Instt. of CSIR as Project Staff for a period of 6 years or more are not eligible for the above engagements. The candidates who have been engaged for a period lesser than 6 years, upon selection, their tenure will automatically end on completion of six years. Selected Candidate(s) will be engaged initially for a certain period against the respective project. which may be curtailed or extended at the discretion of the competent authority, CSIR-NML.

Upper Age limit as on date of Walk-in-Interview is relaxable for SC/ST/PwBD/Women and category of OBC candidates by 05 years and 03 years respectively.

The engagement of the Project Staff will be subject to the availability of the fund.

Hindi may be used as a medium of conversation during the interview.

The Government strives to have a workforce that reflects gender balance, and women candidates are encouraged to apply.

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 or on any other criteria adopted by the screening committee and only those shortlisted so will be allowed to appear in the Interview.

An Application form along with a recent colour passport photograph pasted on it with self-attested copies of all relevant testimonials/certificates has to be submitted for each group by the candidates on the date of Walk-in-Interview/Test itself. No other mode of application will be entertained.

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.

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.

The number and levels of positions may increase or decrease at the time of actual selection or may be cancelled also even after conclusion of selection process as well. 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 candidates any claim, implicit or explicit on any CSIR/CSIR-NML post.

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.

No TA/DA will be paid to the candidates for attending the Walk-in-Interview/test.

Other terms & conditions will be governed as per guidelines issued by the funding agency/CSIR for the engagement of above Project Staff, as read with amendments(s) if any, thereto.

Interested eligible candidates, who are Indian national and fulfil the above eligibility conditions, may report between **09.00 AM to 11.00 AM on 08-04-2025 and 09-04-2025 (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 filled in 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

Candidates are advised to constantly keep on visiting CSIR-NML Website at <https://nml.res.in> for any update/change related to this engagement process.

Sd/-  
Administrative Officer



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**APPLICATION FOR ADVT. NO.: T/PS/02/2025**

1. Advertisement No. : **T/PS/02/2025 (WALK-IN-INTERVIEW/TEST)**
2. Post applied for : Project Assistant-I / Project Assistant-I / Project Associate-I/  
Project Associate-II / Senior PAT /Project Scientist-I/  
Project JRF/SRF etc.
3. Name : \_\_\_\_\_
4. Father's Name : \_\_\_\_\_
5. Mother's Name : \_\_\_\_\_
6. Contact No. : \_\_\_\_\_
7. Date of Birth : \_\_\_\_\_
8. Age as on \_\_\_\_\_ Year \_\_\_\_\_ Month \_\_\_\_\_ Days  
(Date of Walk-In-Interview)
9. Gender (Male/Female) : \_\_\_\_\_
10. Category \_\_\_\_\_  
(UR/EWS/OBC/SC/ST)
11. Physical Handicap (if yes) \_\_\_\_\_  
(VH/HH/OH)
12. Religion : \_\_\_\_\_
13. Nationality : \_\_\_\_\_
14. UID/Aadhar No. : \_\_\_\_\_
15. E-mail address : \_\_\_\_\_
16. Ph. No. / Mob. No. : \_\_\_\_\_
17. Correspondence Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ PIN \_\_\_\_\_
18. Permanent Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ PIN \_\_\_\_\_

Self-attested  
recent  
colour  
passport  
size  
photograph



19. Educational Qualifications:  
(In chronological order)

Sl. No.	Examination/Degree	Board/University	Subject	Year of passing	Class/Division	% Marks or CGPA
1						
2						
3						
4						
5						

20. GATE/NET (CSIR/UGC) Details (if any): \_\_\_\_\_

21. Details of work experience (if any):

Institution	Designation	Salary p.m.	From	To

22. If you are working or worked in CSIR-NML or any other CSIR Lab, please give details thereof:

CSIR Lab Name/ Division/Section	Position	Duration	
		From	To

23. If you are related to any CSIR employee, please give details thereof:

Name of the employee	Designation	Lab./Institute in which working	Your relation with the employee

I understand that the post applied for, by me is purely a temporary one and hereby declare that the statements made and information furnished in the application are true, complete and correct to the best of my knowledge & belief.

(Signature of Candidate)

Date:

Place:

Enclosures:

- 1.
- 2.
- 3.
- 4.
- 5.