CSIR - CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE
(Council of Scientific & Industrial Research)
Karaikudi – 630 003, Sivaganga, Tamil Nadu, India

No. 07-09(11)/2024 – R&C Dated: 25.07.2024

NOTIFICATION No. PS – 08/2024

ENGAGEMENT OF PROJECT PERSONNEL ON TEMPORARY BASIS TO WORK IN CSIR – CECRI, CHENNAI UNIT

WALK-IN-INTERVIEW

CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi is a premier institute working under the aegis of Council of Scientific and Industrial Research (CSIR) an autonomous body functions under Department of Science & Technology.

CSIR-CECRI desires to engage talented candidates as **Research Associate – II, Senior Project Associate, SRF(P), JRF(P), Project Associate - II, Project Associate – I** on temporary basis in various projects tenable at CSIR-CECRI, Chennai Unit, Taramani as per qualification, age, emoluments, etc., detailed in the table below:

Position Code0	Name of the Position & No. of Position (s)	Essential Qualification & Experience	Upper Age limit	Project Tenure, Title & Number	Monthly Emoluments
P01	Research Associate – II (01 Position)	Ph.D in Physical Sciences/Chemical Sciences **Desirable:** Experience in the field of Batteries	40 Years	Upto 20.05.2027 Design & Development of Lithium-Ion Batteries and Demonstration of 1.5 KWh Battery Pack for Electric Vehicle Application **GAP – 10/24**	Rs. 61,000/-pm + HRA
P02	Senior Project Associate (01 Position)	Ph.D in Chemistry **Desirable:** Knowledge of fuel cells, hydrogen energy, thermodynamics, electrocatalyst, polymers, material synthesis	40 Years	Upto 31.03.2025 Demonstration and validation of Indigenously developed electrocatalyst for polymer electrolyte fuel cells **HCP-44FBR2**	Rs. 42,000/-pm + HRA
P03	SRF(P) (02 Positions)	M.Sc in Chemistry/Physics with CSIR-UGC NET/GATE qualified with two years experience. **Desirable:** Minimum 2 years of research experience in materials synthesis and characterization	35 Years	Upto 20.05.2027 Design & Development of Lithium-Ion Batteries and Demonstration of 1.5 KWh Battery Pack for Electric Vehicle Application **GAP – 10/24**	Rs. 42,000/-pm + HRA
P04	JRF(P) (01 Position)	M.Sc in Chemistry with CSIR-UGC NET/GATE qualified **Desirable:** Experience in DFT studies	35 Years	Upto 20.05.2027 Design & Development of Lithium-Ion Batteries and Demonstration of 1.5 KWh Battery Pack for Electric Vehicle Application **GAP – 10/24**	Rs. 37,000/-pm + HRA

Position Code	Name of the Position & No. of Position (s)	Essential Qualification & Experience	Upper Age limit	Project Tenure, Title & Number	Monthly Emoluments
P05	Project Associate - II (01 Position)	M.Sc in Physics/Chemistry/ Material Science/Nano Science & Nano Technology with two years experience **Desirable:** Experience in material characterization	35 Years	Upto 15.05.2025 Physical, chemical and electrochemical testing of indigenously developed precursor materials for Lithium ion cells **SSP-05/24**	(i) ₹.35,000/-pm + HRA to Scholars who are selected through (a) National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or (b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions. (ii) ₹.28,000/-pm + HRA for others who do not fall under (i) above.
	Project Associate - II (01 Position)	B.E/B.Tech in EEE/ECE/EIE with two years of experience (OR) M.Sc in Electronics with two years of experience **Desirable:** Knowledge and experience in 1) Circuit Design, PCB layout, microcontroller Programming. 2) Battery Modeling and Algorithms development. 3) Proficiency in ML algorithms, Matlab, Allegro or any PCB software. 4) Field data survey & collection.		Upto 28.02.2027 Design and Development of AI based smart battery management system for energy storage and E-mobility applications **GAP – 35/23**	
	Project Associate - II (01 Position)	B.E/B.Tech in Computer Science and Engineering/ IT/ Artificial Intelligence and Data Science / AI and ML with two years of experience (OR) M.Sc in Data Science with two years of experience. **Desirable:** Knowledge and experience in 1) Data Analysis, AI algorithms and implementation in real-time applications, IoT device and dashboard interface. 2) Dashboard development. 3) Proficiency in Python, .NET, JAVA,C++ Programming, HTML(full stack developer) 4) Development of interface with different sensors/instruments and System Integration. 5) Field data survey & collection		Upto 28.02.2027 Design and Development of AI based smart battery management system for energy storage and E-mobility applications **GAP – 35/23**	

Position Code	Name of the Position & No. of Position (s)	Essential Qualification & Experience	Upper Age limit	Project Tenure, Title & Number	Monthly Emoluments
P06	Project Associate – I (02 Positions)	B.E/B.Tech in EEE/ECE/Mechanical or M.Sc in Electronics **Desirable:** Background in Battery Management system,ML,Python, IoT, embedded system,sensor interfacing, Circuit design and simulation, battery thermal analysis, CFD studies, microcontroller Programming, CAN communication. Knowledge and experience in ML algorithms, MATLAB, Allegro, or any PCB software and ANSYS.	35 Years	Upto 28.02.2027 Design and Development of AI based smart battery management system for energy storage and E-mobility applications **GAP – 35/23**	(i) ₹.31,000/-pm + HRA to Scholars who are selected through (a) National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or (b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions. (ii) ₹.25,000/-pm + HRA for others who do not fall under (i) above.
	Project Associate – I (03 Positions)	M.Sc in Chemistry/Material Science/Physics/ Nanoscience and Nanotechnology **Desirable**: Knowledge of electrocatalysis and fuel cells		Upto 31.03.2026 Ultra-Low Platinum Alloy catalyst for polymer electrolyte membrane fuel cells **NCP060302**	
	Project Associate – I (04 Positions)	M.Sc in Chemistry **Desirable**: Knowledge of fuel cells, hydrogen energy, thermodynamics, electrocatalyst, polymers, material synthesis	35 Years	Upto 31.03.2026 Scale up of short side chain PFSA composite membrane for low humidity polymer electrolyte fuel cells **FTT060503 (02 Positions)**	₹.25,000/-pm + HRA
				Upto 31.03.2025 Indigenous Proton Exchange Membrane for Polymer Electrolyte Fuel Cells **HCP44-FBR1 (01 Position)**	
				Upto 31.03.2025 Demonstration and validation of Indigenously developed electrocatalyst for polymer electrolyte fuel cells. **HCP44-FBR2 (01 Position)**	

Position Code	Name of the Position & No. of Position (s)	Essential Qualification & Experience	Upper Age limit	Project Tenure, Title & Number	Monthly Emoluments
P06	Project Associate – I (02 Positions)	B.E/B.Tech in Chemical/ Mechanical Engineering **Desirable:** Knowledge of fuel cells, hydrogen powered vehicles, 3D design softwares, P & ID	35 Years	Upto 31.03.2026 Fuel Cell E-tractor: Development of Drive Train **FTT060504**	₹.25,000/-pm + HRA
	Project Associate – I (01 Position)	B.E/B.Tech in Chemical Engineering **Desirable:** Knowledge of fuel cells, hydrogen energy, thermodynamics, AutoCAD/Inventor for D2 and D3 designs, Modelling softwares such as COMSOL, Ansys and ASPEN		Upto 31.03.2026 Scale up of short side chain PFSA composite membrane for low humidity polymer electrolyte fuel cells **FTT060503**	

General Terms & Conditions:

1. **Date & Time of Walk-in-interview:** Walk-in-Interview will be held at 9.30 a.m. from **06th - 07th of August, 2024 at CSIR – CECRI, CHENNAI UNIT, TARAMANI** as scheduled below. **No Candidate will be allowed to enter into the Venue after 09:30 a.m.**

Position code	Name of the Position	Essential Qualification	Date of Walk-in Interview
P01	Research Associate-II	Ph.D in Physical Sciences/Chemical Sciences	**06th August 2024 (Tuesday)**
P02	Senior Project Associate	Ph.D in Chemistry	
P03	SRF(P)	M.Sc in Physics/Chemistry with CSIR-UGC NET/GATE qualification	
P04	JRF(P)	M.Sc in Chemistry with CSIR-UGC NET/GATE qualification	
P05	Project Associate - II	B.E/B.Tech in Computer Science and Engineering/ IT/ Artificial Intelligence and Data Science / AI and ML with two years of experience (OR) M.Sc in Data Science with two years of experience.	
P06	Project Associate - I	M.Sc in Chemistry/Physics/Material Science/Nanoscience and Nanotechnology	
P05	Project Associate - II	B.E/B.Tech in EEE/ECE/EIE with two years of experience (OR) M.Sc in Electronics with two years of experience	**07th August 2024 (Wednesday)**
P06	Project Associate - I	B.E/B.Tech in EEE/ECE/Mechanical (OR) M.Sc in Electronics	
		B.E/B.tech in Chemical/Mechanical Engineering	

*Chemistry/Chemical Science includes M.Sc in Chemistry/Inorganic Chemistry / Analytical Chemistry / Physical Chemistry / Organic Chemistry / Polymer Science