



**CSIR-Central Electrochemical Research Institute**  
**Council Of Scientific and Industrial Research**  
**Karaikudi 630006, Tamilnadu, India**

Advertisement No. 01/2013 Dated 14.12.2013

**Last Date for Receipt of on-line application 13.01.2014**

**A unique opportunity for research careers in Science & Technology**

Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi, a premier institute under the Council of Scientific and Industrial Research (CSIR), involved in multidisciplinary R&D programmes in the domain of electrochemistry and electrochemical devices. Its thrust areas of research covers Materials Protection, Electrochemical Materials Science, Electrochemical Power Sources, Bio-electrochemistry, Process engineering, Computer Networking and Instrumentation. CSIR-CECRI thus aims to play a catalytic role for stimulating the growth of electrochemical industry in the country. For more details about the institute, visit <http://www.cecni.res.in>

Applications are invited from enthusiastic, young Indian researchers having excellent academic record and proven scientific achievements along with requisite experience and a high degree of motivation and desire to take up research as a career in the field of *Electrochemical Power Sources, Electrochemical Materials Science and Bio-electrochemistry*, to fill up the vacancy of following posts of scientists as per the details given below.

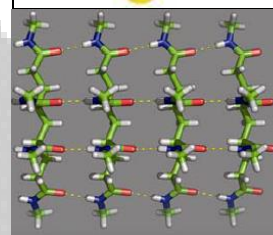
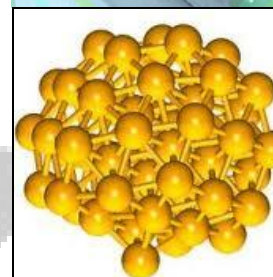
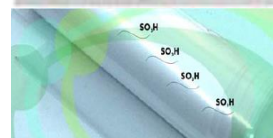
The emoluments and age limit for various posts as per norms is summarized as below:-

Designation	No. of Posts	Pay Band	Grade Pay	*Total Emoluments	**Upper Age Limit not exceeding (as on 13.01.2014)
Scientist	# 7 (UR 3, OBC 1, ST 3)	Rs.15600-39100 (PB-3)	Rs.6600/-	Rs.55260/-	32 years
Senior Scientist			Rs.7600/-	Rs.63810/-	37 years

# Out of 7 posts, one post will be reserved for VH/HH

\* Total Emoluments means approximate total emoluments on minimum of scale including House Rent Allowance in Class 'Z' City.

\*\*Please see age relaxation under Relaxation column.



Post code	Pay Band	Names and No. of Posts / reservation & Grade Pay(GP) /Age limit not exceeding	Essential Educational Qualifications & Experience	Desirable Experience	Job specification
SS01	15600-39100 (PB-3)	Scientist (UR) GP 6600/- Age limit : 32yrs	PhD in Physical Chemistry/Electrochemistry	One or more years of post PhD experience in the field of synthesis and characterization of novel nanomaterials for rechargeable electrochemical energy storage systems with special emphasis on Lithium ion batteries, redox-flow batteries and supercapacitors.	The successful candidate will work in electrochemical energy storage systems such as Lithium ion batteries, redox-flow batteries and supercapacitors.
		Senior Scientist (UR) GP 7600/- Age limit : 37 yrs	PhD in Physical Chemistry/Electrochemistry with 2 years of Postdoctoral Experience	Three or more years of post PhD experience in the field of synthesis and characterization of novel nanomaterials for rechargeable electrochemical energy storage systems with special emphasis on Lithium ion batteries, redox-flow batteries and supercapacitors.	
SS02	15600-39100 (PB-3)	Scientist (UR) GP 6600/- Age limit : 32yrs	PhD in Electroanalytical Chemistry/Electrochemistry	One or more years of post PhD experience in the research area of electrochemical biosensors with special emphasis on microelectrodes/carbon fiber electrodes/graphene based electrodes for electrochemical biosensing applications.	The successful candidate will work in developing electrochemical biosensors for clinical applications.
		Senior Scientist (UR) GP 7600/- Age limit : 37 yrs	PhD in Electroanalytical Chemistry/Electrochemistry with 2 years of Postdoctoral Experience	Three or more years of post PhD experience in the research area of electrochemical biosensors with special emphasis on microelectrodes/carbon fiber electrodes/graphene based electrodes for electrochemical biosensing applications.	
SS03	15600-39100 (PB-3)	Scientist (ST) GP 6600/- Age limit : 32yrs	PhD in Electrochemistry/ Electro catalysis	One or more years of post PhD experience in the research area of chemically modified electrodes, synthesis of novel nanomaterials for electrocatalysis, sensors and electrochemiluminescence studies.	The successful candidate will work in developing chemically modified electrodes, synthesis of novel nanomaterials for electrocatalysis, sensors and electrochemiluminescence studies.
		Senior Scientist (ST) GP 7600/- Age limit : 37 yrs	PhD in Electrochemistry/ Electro catalysis with 2 years of Postdoctoral Experience	Three or more years of post PhD experience in the research area of chemically modified electrodes, synthesis of novel nanomaterials for electrocatalysis, sensors and electrochemiluminescence studies.	
SS04	15600-39100 (PB-3)	Scientist (UR) GP 6600/- Age limit : 32yrs	PhD in Physics/Materials Science	One or more years of post PhD experience in 1D, 2D, 3D novel nanomaterials/hybrid materials/composites for multifunctional applications. Preference will be given to candidates who have research experience in the research areas of synthesis and characterization of novel nanomaterials such as graphene-oxide/graphene/metal oxides.	The successful candidate will work in developing 1D, 2D, 3D novel nanomaterials/hybrid materials/composites for multifunctional applications.

		Senior Scientist (UR) GP 7600/- Age limit : 37 yrs	PhD in Physics/Materials Science with 2 years of Postdoctoral Experience	Three or more years of post PhD experience in the field of 1D, 2D, 3D novel nanomaterials/hybrid materials/composites for multifunctional applications Preference will be given to candidates who have research experience in the research areas of synthesis and characterization of novel nanomaterials such as graphene-oxide/graphene/metal oxides.	
SS05	15600-39100 (PB-3)	Scientist (OBC) GP 6600/- Age limit : 32yrs	PhD in Chemical Engineering/Materials Science and Engineering	One or more years of post PhD experience in the synthesis of novel nanocatalyst for electrochemical energy conversion devices with particular emphasis on polymer electrolyte fuel cells. Candidates with undergraduate degree in Chemical and Electrochem. Eng. is preferred.	The successful candidate will work in the research area of novel nanocatalysts for electrochemical energy conversion devices and in preventing corrosion.
		Senior Scientist (OBC) GP 7600/- Age limit : 37 yrs	PhD in Chemical Engineering/Materials Science/Engineering ( 2 years of Postdoctoral Experience for Ph.D in Science)	Three or more years of post PhD experience in the synthesis of novel nanocatalyst for electrochemical energy conversion devices with particular emphasis on polymer electrolyte fuel cells. Candidates with undergraduate degree in Chemical and Electrochem. Eng. is preferred.	
SS06	15600-39100 (PB-3)	Scientist (ST) GP 6600/- Age limit : 32yrs	PhD in Physical Chemistry/Electrochemistry	One or more years of post PhD experience in materials electrochemistry/ corrosion /electrochemical engineering.	The successful candidate will work in materials electrochemistry, corrosion and electrochemical engineering.
		Senior Scientist (ST) GP 7600/- Age limit : 37 yrs	PhD in Physical Chemistry/Electrochemistry with 2 years of Postdoctoral Experience	Three or more years of post PhD experience in materials electrochemistry/ corrosion /electrochemical engineering.	
SS07	15600-39100 (PB-3)	Scientist (ST) GP 6600/- Age limit : 32yrs	PhD in Electrochemistry/Chemical Engineering	One or more years of post PhD experience in the area of electrochemical power sources/bio-electrochemistry / electrochemical process engineering.	The successful candidate will work in electrochemical power sources, bio-electrochemistry and electrochemical process engineering.
		Senior Scientist (ST) GP 7600/- Age limit : 37 yrs	PhD in Electrochemistry/Chemical Engineering (2 years of Postdoctoral Experience for Ph.D in Science)	Three or more years of post PhD experience in the area of electrochemical power sources/ bio-electrochemistry / electrochemical process engineering.	

**UR: Unreserved; SC: Scheduled Caste; ST: Scheduled Tribe; OBC: Other Backward Class; VH: Visually Handicapped; HH: Hearing Handicapped.**

**Apart from qualifications indicated above, any other recognized qualification, which is equivalent to the prescribed qualification, shall be treated at par with that qualification.**

## **General information and conditions:-**

### **1. Benefits under Council service:**

- a. These posts carry usual allowances i.e. Dearness Allowance (DA), House Rent Allowance (HRA), Transport Allowance (TA) etc. as admissible to the central government employees and as made applicable to CSIR. Council employees are also eligible for accommodation of their entitled type as per CSIR allotment rules depending on availability in which case HRA will not be admissible.
- b. Scientists in Pay Band-3 and Pay Band-4 are eligible for 2 additional increments (without DA) and Professional update allowance of Rs.10000/- and Rs. 20,000/- per annum respectively.
- c. In addition to the emoluments indicated against each category of posts, benefits such as applicability of New Pension Scheme 2004, reimbursements of Medical Expenses, Leave Travel Concession, Conveyance advance and House Building Advance are available as per CSIR rules.
- d. Scientists in CSIR are also permitted to undertake consultancy and sponsored R&D project activity. These activities give them scope to earn consultancy fee and honorarium as per CSIR guidelines governing these activities. Opportunities also arise for foreign deputations for training/presentation of papers/specific assignments etc.
- e. CSIR provides excellent opportunities to deserving candidates for career advancement under Assessment Promotion scheme for Scientists.
- f. Deserving candidates may be considered for advance increment as per CSIR Rules.

### **2. Other conditions**

- a. The applicant must be a citizen of India.
- b. All applicants must fulfill the essential requirements of the post and other conditions stipulated in the advertisement as on the last date of receipt of the applications. They are advised to satisfy themselves before applying that they possess at least the essential qualifications laid down for various posts as on the last date of receipt of the applications. No enquiry asking for advice as to eligibility will be entertained.

The prescribed essential qualifications are the minimum and the mere possession of the same does not entitle candidates to be called for interview. The duly constituted Screening Committee will adopt its own criteria for short-listing the candidates. The candidate should therefore, mention in the application all the qualifications and experiences in the relevant area over and above the minimum prescribed qualification, supported with documents. Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/notification.

- c. The application should be accompanied by self attested copies of the relevant educational qualification, experience. The prescribed qualifications should have been obtained through recognized Universities / Institutions. etc. Incomplete applications/applications received or not accompanied with the required certificates / documents are liable to be rejected.
- d. In respect of equivalent clause in Essential Qualifications, if a candidate is claiming a particular qualification as equivalent qualification as per the requirement of advertisement, then the candidate is required to produce order/letter in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise the application is liable to be rejected.
- e. The period of experience rendered by a candidate on part time basis, daily wages, visiting/ guest faculty will not be counted while calculating the valid experience for short listing the candidates for interview.
- f. If any document/ certificate furnished is in a language other than Hindi or English, a transcript of the same duly attested by a Gazetted officer or notary is to be submitted.
- g. The date for determining the upper age limit, qualifications and /or experience shall be the closing date prescribed for receipt of on-line applications i.e. 13.01.2014.
- h. The period of experience in a discipline / area of work, wherever prescribed, shall be counted after the date of acquiring the minimum educational qualifications prescribed for that Grade.
- i. Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.
- j. In case a candidate is staying abroad, his/her candidature may be considered *in absentia* by the Selection Committee on his/her written request.

- k. The Selection Committee may choose to place the candidate in any of the Grade Pay within the Pay Band depending upon the performance of the candidate and subject to meeting the minimum eligibility criterion specified.
- l. Only outstation candidates called and found eligible for interview will be paid to and fro single second class rail fare from the actual place of undertaking the journey or from the normal place of their residence whichever is nearer to Karaikudi Railway Station on production of Rail Tickets/Rail Ticket Numbers or any other proof of journey.
- m. Any discrepancy found between the information given in application and as evident in original documents will make the candidate ineligible for appearing in interview. Such candidate will not be paid any fare.
- n. The decision of the Director, **CSIR-CECRI** in all matters relating to eligibility, acceptance or rejection of applications, mode of selection, conduct of examination/interview will be final and binding on the candidates.
- o. Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post.
- p. NO INTERIM ENQUIRY OR CORRESPONDANCE WILL BE ENTERTAINED.

**3. Relaxations :**

- a. The upper age limit is relaxable upto 05 years for SC/ST and 03 years for OBC as per Government orders in force only in those cases where the post are reserved for respective categories, on production of relevant certificate in the prescribed format signed by the specified authority at the time of interview.
- b. Upper age limit is also relaxable upto five years for the regular employees working in CSIR laboratories / institutes, Government Departments, autonomous bodies and public sector undertakings.
- c. As per GOI provisions, age relaxation for Widows, Divorced Women and Women Judicially separated from Husbands, who are not remarried, the upper age limit is relaxable up to the age of 35 years (upto 40 years for members of Scheduled Castes/Scheduled Tribes and upto 38 years for members belonging to the Other Backward Classes in respect of the posts reserved for them). The persons claiming age relaxation under this sub-para would be required to produce following documentary evidence:
  - i) In case of Widow, Death Certificate of her husband together with the Affidavit that she has not remarried since.
  - ii) In case of divorced Women and Women judicially separated from their husbands, a certified copy of the judgment/decree of the appropriate Court to prove the fact of divorce or the judicial separation, as the case may be, with an Affidavit in respect of divorced Women and they have not remarried since.
- d. Age relaxation to Physically Handicapped (PH) persons: Age relaxation of 5 years is allowed (total 10 years for SCs/STs and 8 years for OBCs in respect of the posts reserved for them) to blind, deaf-mute and orthopedically handicapped persons for appointment to Group 'A' posts/services. The persons claiming age relaxation under this sub-para would be required to produce a certificate in prescribed proforma in support of their claims clearly indicating that the degree of physical disability is 40% or more. In any case, the appointment of these candidates will be subject to their being found medically fit in accordance with the standards of medical fitness as prescribed by the Government for each individual Group 'A' posts to be filled by Direct Recruitment by Selection.
- e. Relaxation in age, over and above the stipulated limit, educational qualification and / or experience may be considered in case of exceptionally meritorious candidates or if sufficient number of candidates possessing the requisite qualification and/ or experience are not available to fill up the posts.
- f. Relaxation of five years will also be permissible to those who had ordinarily been domiciled in the Kashmir division of the state of Jammu and Kashmir during the period from 1-1-1980 to 31-12-1989 subject to production of relevant certificate from concerned authority.

**4. How to apply :**

- a. Eligible candidates are required to apply ONLINE through our website <http://www.cecni.res.in>
- b. If the candidate does not have a valid email id, he/she should create a new valid email id before applying online.
- c. **Online Application will be available on our website <http://www.cecni.res.in> upto 13.01.2014 (05.30 PM)**
- d. Candidates are required to arrange for a crossed **Demand Draft for Rs.500/- drawn on any nationalized bank and valid for at least 3 months in favour of "Director, CSIR-CECRI" payable at Karaikudi. The last date for submitting**

**online application** and making of Demand Draft is **13.01.2014**. This date will be the same for the candidates belonging to far-flung areas. The following details must be filled up on back side of Demand Draft **(i) Candidate's Name, (ii) Candidate's Category, (iii) Post Code Applied For**. The candidates belonging to SC/ST/PH/Women/CSIR Employees are exempted from submission of application fee.

- e. In case of universities/institute awarding CGPA/SGPA/OGPA grades etc., candidates are requested to convert the same into percentage based on the formula as per their university/institute.
- f. i) To apply online, the candidate has to register with his/her name and email-id.  
ii) After successful registration, login credentials (username and password) will be sent to the candidate's email-id.  
iii) The candidate has to login using the credentials and apply through the electronic application form.
- g. After filling-up the electronic application form, the candidate can verify/edit the application to ensure that the application is complete and correct in all aspects. After finalizing, candidate can print the application.
- h. This computer generated application (Print-out) duly accompanied by attested copies of the certificates, mark sheets, testimonials in support of age, education qualifications, experience, re-prints of publications and caste certificate, if applicable along with one recent passport size self-signed photograph affixed together with Demand Draft (if applicable) should be sent in an envelope superscribed "APPLICATION FOR THE POST OF \_\_\_\_\_ (Post Code \_\_\_\_\_)" so as to reach **the Controller of Administration, CSIR-Central Electrochemical Research Institute, Karaikudi-630 006, Tamil Nadu on or before 20.01.2014**. Candidates applying for more than one post must submit separate application form for each post indicating the Code No. of the post. The hard copy(s) of each application must be accompanied by separate Demand Draft(s).
- i. Application once made will not be allowed to be withdrawn and fees once paid will not be refunded on any count nor can it be held in reserve for any other recruitment or selection process.
- j. Applications from employees of Government Departments will be considered only if forwarded through proper channel, certified by the employer that the applicant, if selected will be relieved within one month of the receipt of the appointment orders. Also, vigilance clearance should also be recorded. However, advance copy of the application may be submitted before the closing date. Applications routed through proper channel should reach The Controller of Administration, CSIR-CECRI, Karaikudi-630006 at the earliest.
- k. Candidates should specifically note that the applications received after the closing date for any reason whatsoever (such as envelopes wrongly addressed, delivered elsewhere, postal delay etc.) will not be entertained by CSIR-CECRI.
- l. Incomplete applications (i.e. without photograph, unsigned and application fee, applicable testimonials etc.) will not be entertained and will be summarily rejected.

**5. Following documents must be attached along with application form sent by post:**

- a Demand Draft of Rs.500/- as application fee, where applicable.
- b Coloured photograph pasted on the form and signed across in full.
- c Self Attested photocopy of Date of Birth Certificate.
- d Self Attested photocopies of education qualifications certificates.
- e Self Attested photocopy of caste certificate, if applicable.
- f Self Attested photocopies of experience certificates, if any.

**Controller of Administration**  
CSIR-Central Electrochemical Research Institute  
Karaikudi 630006, Tamilnadu