



CSIR-Central Electrochemical Research Institute
Council Of Scientific and Industrial Research
Karaikudi 630003, Tamilnadu, India

Advertisement No. 01/2018 Dated 13/01/2018

Last Date for Receipt of on-line application **12/02/2018**

A unique opportunity for research careers in Science & Technology

CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi, is 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. The thrust areas of research covers Materials Protection, Electrochemical Materials Science, Electrochemical Power Sources, Bio-electrochemistry, Process engineering, Computer Networking and Instrumentation. CSIR-CECRI aims to play a catalytic role for stimulating the growth of electrochemical industry in the country alongwith nurturing academic excellence & creativity. For more details about the institute, visit <http://www.cecri.res.in>

Applications are invited from enthusiastic, young and dynamic Indian Nationals having excellent academic record and proven scientific achievements with requisite experience and strong desire to take up research as a career in Electrochemistry to fill various posts of Scientists. For technical posts, the persons must be capable of supporting the R&D activities of the Institute.

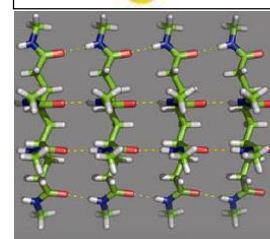
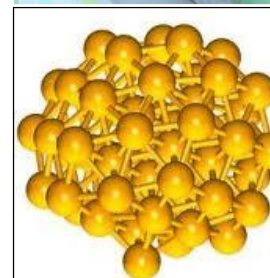
The details of positions, emoluments as well as age limit are given below:

Designation	No. of Posts	Initial Pay and level in Pay Matrix	Equivalent to PB-3/PB-4 with Grade Pay	*Total Emoluments	**Upper Age Limit not exceeding (as on 12/02/2018)
Scientist	11	Rs. 67,700/- Level-11	Rs.6600/-	Rs.80431	32 years
Senior Scientist	2	Rs. 78,800/- Level-12	Rs.7600/-	Rs.92974	37 years
Senior Principal Scientist	1	Rs. 1,31,100/- Level-13A	Rs.8900/-	Rs.152073	50 years
Technical Assistant	5	Rs. 35,400/- Level-6	Rs.4200/-	Rs.41892	28 years
Female Medical Officer	1	Rs. 56,100/- Level-10	Rs.5400/-	~Rs.78393	35 years

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

**Please see age relaxation under Relaxation.

~Total emoluments on minimum pay of the level including Non-Practising Allowance.



a) Scientist Positions

Post Code/ No. of Positions & Category	Designation & Age limit including relaxation for SC/ST/OBC	Essential Educational qualification & Experience	Division / Theme / Area	Desirable Qualification & Experience	Job Requirements
S01 1 post (ST)@	Scientist Age limit : 37yrs	Ph.D (submitted) in Chemistry/ Chemical Science	Electroics and Electrocatalysis	PhD work in bio sensors, bio fuel cells, electrochemical sensors, bioelectrocatalysis. Two to three years of post doctoral experience in the development of electro- chemical biosensors and Bio fuel cells which include microbial and enzymatic fuel cells	Incumbent will have to work independently towards the goal of developing diagnostic devices pertaining to current trends in developing biosensors/biofuel cells
S02 1 post (UR-HH)	Scientist Age limit : 32yrs	Ph.D (submitted) in Polymer Chemistry/ Polymer Science	Corrosion and Materials Protection	Experience in the field of paint formulation and evaluation / corrosion inhibitor development and evaluation.	Incumbent will have to carry out research in the area of synthesis of conducting and insulating polymers and should carry out research work in coating of polymeric materials on various substrates /characterization of polymeric coatings /development and characterization of inhibitors.
S03 1 post (ST- HH)	Scientist Age limit : 37yrs	Ph.D (submitted) in Metallurgy/ Materials Science	Corrosion and Materials Protection	Experience in the areas of failure analysis, stress corrosion, alloy development etc.Experience in corrosion related failure analysis, stress corrosion, alloy development . Specialization in modelling and simulation in corrosion is preferable.	Incumbent will have to carry out research in the area of stress corrosion cracking, corrosion failure analysis, etc. using modern techniques. He / She should have expertise to develop solutions for various corrosion problems.
S04 1 post (SC)@	Scientist Age limit : 37yrs	Ph.D (submitted) in Physics / Chemistry	Corrosion and Materials Protection	Two years of post doctoral experience in modelling and/or computational materials science. Teaching Mathematics and numerical analysis for engineering and post graduate students.	Incumbent will have to carry out work in the area of modelling and/or computational materials science. Should handle classes for B.Tech. (Chemical and electrochemical engineering) and AcSIR course work on Mathematics and numerical analysis.
S05 1 post (ST)@	Scientist Age limit : 37yrs	Ph.D (submitted) in Marine biology / Marine chemistry	CSIR – CECRI Mandapam unit	Two years of Post doctoral experience in corrosion and microbial corrosion	Incumbent will have to carry out research in the areas of microbial corrosion, biofouling etc.
S06 1 post (SC)	Scientist Age limit : 37yrs	Ph.D (submitted) in Physics/Chemistry/ Materials Science	Functional Materials	Two years of post doctoral experience in the area of solar cells - Dye Sensitized Solar Cell /Organic Photovoltaics, Perovskite Solar cell. Candidates with patents in the area of solar cells and/or with high impact (IF > 10.0) papers as first author or equal contributing author will be given preference.	Should carry out independent research in the area of solar cells and develop large area photovoltaic devices.
S07 1 post (ST)@	Scientist Age limit : 37yrs	Ph.D (submitted) in Chemistry/ Electrochemistry	Functional Materials	Two years of post doctoral experience in the area of organic materials for solar cells and organic electronics. Candidates with patents in the area of solar cells and/or with high impact (IF > 10.0) papers as first author or equal contributing author will be given preference.	Should carry out independent research in the area of organic materials for solar cells and electronics and work in a team for the development of large area solar cells.

Post Code/ No. of Positions & Category Initial Pay	Designation & Age limit including relaxation for SC/ST/OBC	Essential Educational qualification & Experience	Division / Theme / Area	Desirable Qualification & Experience	Job Requirements
S08 1 post (UR)	Senior Principal Scientist Age limit : 50 yrs	Ph.D. in Chemistry/ Materials Science/ Physics with Post doctoral experience of minimum 6 years in the area of materials research.	Functional Materials	Experience in the area of synthesis and characterization of novel materials using chemical and electrochemical techniques and ability in handling major private and government funded projects as project leader and familiarity with the characterization of materials using NMR, XRD, XPS, SEM, TEM.	He/she should be responsible to lead a team of scientists and R & D projects of the division.
S09-a 1 post (OBC-1)	Scientist Age limit : 35yrs	Ph.D (submitted) in Chemistry/Electrochemistry (or) M.E/M.Tech in Chemical/Electrochemical Engineering.	Chlor Alkali	Specialization in electrochemical technologies/process mechanisms with 2-3 years of postdoctoral research/industrial experience in electrochemical industries.	Incumbent is expected to undertake independent research in the area of electrochemical process engineering such as chlor alkali, water electrolysis, electrodialysis etc. He/She should be familiar with the demineralization of organic/fine chemicals containing salts.
S09-b 1 post (ST-1)@	Scientist Age limit : 37yrs	Ph.D (submitted) in Chemistry or Chemical sciences with specialisation in Electrochemistry	Electroplating and Metal Finishing Technology	Two years of postdoctoral /industrial experience in the area of electroplating, anodising, electroless plating.	Incumbent will have to carry out research in the area of electroplating, metal finishing and application of this technique for plating of magnetic materials, multilayer and composite plating.
S10 1 post (UR)	Scientist Age limit : 32yrs	Ph.D (submitted) in Chemistry or Chemical sciences with specialisation in Electrochemistry	Electro- inorganic Chemicals	Experience in different hydrogen generation technologies such as PEM, alkaline, photo- electrochemical and sea water electrolysis. Specialization in synthesis of two-dimensional/ semiconductor materials for various electrochemical applications. Good knowledge in the area of electrochemical treatment of drinking water technology.	Incumbent will have to involve in the divisional activities for the development of various ongoing R&D work on hydrogen generation, electrochemical water treatment and the development of Photo- electrochemical cells (thin film semiconductor photo- electrodes / catalyst materials) for solar fuel synthesis
S11 1 post (ST)@	Scientist Age limit : 37yrs	Ph.D (submitted) in Environmental Engineering/ Chemical engineering	Pollution control	Experience in plating / dye/textile industries in design and fabrication of electrochemical /chemical reactors for effluent treatment	Incumbent will have to work on the design of electrochemical and chemical reactors for treating effluents and recovery of metals from industrial waste.
S12 1 post (UR)	Senior Scientist Age limit : 37yrs	B.E/B.Tech (Chemical/Mechanical Engg.) /M.Sc Chemistry and 2 years of regular MBA with specialization in Human Resource Development/Project Planning and having 3 years of experience in R&D planning and management	PPMG	Five years of experience in Human resource development/ R & D Project planning and management after MBA. Candidate must demonstrate good written and oral communication skills and computer literacy.	To formulate project proposals and coordinate with industries to market CSIR – CECRI Technologies/Products. Activities includes interacting with scientists, CSIR-HQ, maintaining records and databases etc.

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S13 1 post (UR)	Senior Scientist Age limit : 37yrs	B.E/B.Tech (Chemical/Mechanical Engg.) /M.Sc Chemistry and 2 years of regular MBA with specialization in Marketing Management or post graduate degree in Intellectual Property Law and having 3 years of experience in marketing of technologies/Intellectual Property Law.	TTBD	Five years full-time work experience in Market Research/Financial Modeling/ Business planning and incubation centre/ Tech transfer or experience as a founder of a startup company is desirable. Formal training (diploma or degree) in intellectual property/ technology commercialization/technology entrepreneurship/ technology business incubation/ technology/innovation management. Candidate must demonstrate good written and oral communication skills and computer literacy.	The selected candidate will work as part of CECRI Business Development Group that aims to help and strengthen CECRI's technology pipeline and improve technology commercialization results. The incumbent will help the scientists to formulate project proposals and coordinate with industries to market CSIR – CECRI Technologies.

b) Technical Positions

Post Code/ No. of Positions & Category	Designation & Age limit including relaxation for SC/ST/OBC	Essential Educational qualification & Experience	Division / Theme / Area	Desirable Qualification & Experience	Job Requirements
TA01 1 post (UR)	Technical Assistant ; Age – 28 years	1 st class Diploma in Electronics & Communication or Electronics and instrumentation Engineering/Tech. of at least 3 years full time duration or at least 2 years full time duration in case of lateral admission in Diploma courses or its equivalent with experience of 2 years in the relevant area/field.	Central Instrument ation Facility	3 Years of experience in design and development of portable electronic instruments	To assist in design and development of custom built portable electrochemical instruments
TA02 1 post (ST)@	Technical Assistant ; Age – 33 years	1 st class Diploma in Mechanical Engineering/Tech. of at least 3 years full time duration or at least 2 years full time duration in case of lateral admission in Diploma courses or its equivalent with experience of 2 years in the relevant area/field.	ETS	B.E/B.Tech in Mechanical Engineering after acquiring the prescribed essential qualification. Experience in Installation, operation and servicing of precious machines like 3D metal printer. Prior knowledge in the area of CAD, Solid-works etc. is desirable.	To assist scientist in the operation of 3 D Metal printer
TA03 1 post (ST)	Technical Assistant ; Age – 33 years	1st class Diploma in Civil Engineering/Tech. of at least 3 years full time duration or at least 2 years full time duration in case of lateral admission in Diploma courses or its equivalent with experience of 2 years in the relevant area/field.	Civil	Experience in preparation of estimates, supervision of work, preparation of MB, bills, etc. Construction and maintenance of Building works and working knowledge in Auto CAD	To assist civil engineers for the preparation of estimates and maintenance of civil structures.
TA04 1 post (OBC)	Technical Assistant ; Age – 31 years	First class Diploma in Computer Science Engineering/Tech. of at least 3 years full time duration or at least 2 years full time duration in case of lateral admission in Diploma courses or its equivalent with experience of 02 years in the relevant area/field.	PPMG	B.E in Computer Science Engineering/ PG diploma in journalism/mass communication after acquiring the prescribed essential qualification.	Candidate must demonstrate good written and oral communication skills and computer literacy and assist in formulating R&D

Post Code/ No. of Positions & Category	Designation & Age limit including relaxation for SC/ST/OBC	Essential Educational qualification & Experience	Division / Theme / Area	Desirable Qualification & Experience	Job Requirements
					project proposals and coordinate with industries to market CSIR – CECRI Technologies / Products. Activities includes interacting with scientists, report collection and consolidation, maintaining records and databases etc.
TA05 1 post (UR)	Technical Assistant ; Age – 28 years	1 st class Diploma in Chemical Engineering/Tech. of at least 3 years full time duration or at least 2 years full time duration in case of lateral admission in Diploma courses or its equivalent with experience of 2 years in the relevant area/field	TTBD	B.E/B.Tech in Chemical Engg. after acquiring the prescribed essential qualification. One or two years of experience in IP related works/technology transfer/MoU/Agreements with knowledge of IP law/Marketing management etc. Past exposure to technology development and/or commercialization is an added advantage	Candidate must demonstrate good written and oral communication skills and computer literacy . He should assist in formulating industrial project proposals and coordinate with industries to market CSIR – CECRI Technologies / products. He/She should undertake Market Research / Financial Modeling / Business planning and incubation centre.
FMO 1 post (UR)	Female Medical Officer; Age – 35 years	MBBS with 55% marks	Health Centre	Candidate with at least three years working experience (Excluding the one year compulsory rotating internship after completion of MBBS exams) in the reputed hospital (in-patient)/polyclinic. (The candidate should have sound knowledge of clinical examinations as a general practitioner and good practical knowledge of internal medicine, Paediatrics and sound basic knowledge of obstetrics and gynecology. Knowledge of local language is preferable.)	To render medical service to staff, their family members and pensioners of the Institute.

ST: Scheduled Tribe; OBC: Other Backward Class; UR: Unreserved; HH: Hearing Handicapped; @: Backlog vacancies.

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. All Scientists are eligible for 2 additional increments (without DA) and Professional update allowance, if applicable.
- c. In addition to the emoluments indicated against each category of posts, benefits such as applicability of New Pension Scheme 2004, reimbursement 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. The number of vacancies indicated against each category is provisional and may vary at the time of selection.
- g. Deserving candidates may be considered for advance increment as per CSIR Rules, if applicable.

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 on-line 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 on-line 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. Incomplete applications/applications received without 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. **Preference will be given to the candidates involved in Product Development / Technology Innovation / Applied Technology / Translational Research etc.**
- g. 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.
- h. 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. 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.
- j. Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.
- k. In case a candidate is staying abroad, if found suitable for the posts applied against Scientist/Sr.Scientist/Sr.Principal Scientist posts, his/her candidature may be considered in absentia by the Selection Committee on his/her written request.
- 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 CORRESPONDENCE 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 posts 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 judgement/decreed 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 that they have not remarried since.
- d. Age relaxation to Physically Handicapped (PH) persons: Age relaxation of 10 years is allowed (total 15 years for SCs/STs and 13 years for OBCs in respect of the posts reserved for them) to blind, deaf-mute and orthopaedically handicapped persons for appointment to Group 'A' & 'B' 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' & 'B' 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.cecricri.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 CSIR-CECRI website <http://www.cecricri.res.in> from 09:00 a.m. on 13.01.2018 (Saturday) to 05.30 p.m. on 12.02.2018 (Monday).
- d. The **last date for submitting online application** and remittance of Application Fee is **12.02.2018**. This date will be the same for the candidates belonging to far-flung areas.

The candidate has to remit application fee of Rs.500/- **for Scientist positions at (a) and Rs.100/- for Technical Assistant positions at (b)** through Net Banking to the following account and fill up the transaction details in the prescribed columns of on-line application:

Name of Account Holder : Director, CSIR-CECRI, Karaikudi
 Account Number : 737253625
 Bank Name : Indian Bank, A.C. Campus Branch, Karaikudi
 IFSC Code : IDIB000A008
 MICR No. : 630019203
 SWIFT Code: IDIBINBBMDN

The candidates belonging to SC/ST/PH/Women/CSIR Employees are exempted from payment of application fee. The candidates staying abroad are required to remit the bank commission charges also along with the 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) 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 self attested copies of the certificates, mark sheets, testimonials in support of age, educational qualifications, experience, re-prints of publications and caste certificate, if applicable along with one recent passport size self-signed photograph affixed together with E-receipt/Transaction reference for remittance of application fee (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-630 003, Tamil Nadu on or before 19.02.2018**. Candidates applying for more than one post must submit separate application form and make separate online payment towards application fee for each post indicating the Code No. of the post.
- i. Application once made will not be allowed to be withdrawn and fees once paid will not be refunded on any account 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 order. Also, vigilance clearance should 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-630003 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. unsigned, without photograph 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 Proof for remittance of application fee through net banking (E-receipt/Transaction reference), 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 educational qualification certificates.
- e Self Attested photocopy of caste certificate, if applicable.
- f Self Attested photocopies of experience certificates, if any.
- g No Objection Certificate (NOC), wherever applicable.
- h Certificate related to Physically Handicap (wherever applicable) in the prescribed format.

Controller of Administration
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