



**CSIR-Central Glass & Ceramic Research Institute**  
**Council of Scientific and Industrial Research**  
**196, Raja S.C. Mullick Road**  
**Kolkata– 700032 (West Bengal)**

Advertisement no. 01/2023

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

CSIR-CGCRI is one of the oldest Research and Development (R&D) Laboratories of CSIR, which is an autonomous body under DSIR, Ministry of Science & Technology, Government of India. CSIR-CGCRI is dedicated to achieve scientific leadership in the area of advanced ceramics and specialty glasses (including fibre/fibre-based devices). Major research activities of the Institute concerns: specialty glasses, specialized optical fibre, Sol-gel processing of glass and ceramics, nano-structured glass and ceramics, engineering ceramics (both oxides and non-oxides), ceramics for bio-medical applications, ceramic membranes, advanced refractories, ceramic sensor, oxide fuel cells & batteries, traditional ceramics (white ware and red clay pottery) etc. Majority of the research projects is funded by government agencies, strategic sectors and private industries.

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 *Glass & Ceramic* to fill up the vacant posts of Scientists as per the details given below.

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

No. of Posts with reservation	Designation	Pay Level	Minimum Emoluments	*Upper Age Limit not exceeding (as on last date)
5 posts (EWS: 2; ST:1,OBC:2)	<b>Scientist</b>	Pay Level -11 (7 <sup>th</sup> CPC) [Rs.67700 – 208700]	Rs.67700/- plus usual allowances like DA, HRA, TA etc. as applicable to CSIR employees.	32 years*
6 posts (UR: 6)	<b>Sr. Scientist</b>	Pay Level-12 (7 <sup>th</sup> CPC) [Rs.78800- 209200]	Rs.78800/- plus usual allowances like DA, HRA, TA etc. as applicable to CSIR employees.	37 years*

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

## Qualifications for recruitment of Scientists at CSIR-CGCRI

Sl. No.	Post Code	Essential Qualification	Desirable Qualification
1	<b>Scientist-1 post</b>  BCCSCT-01 (1 post reserved for ST)	M.E. /M.Tech. in the field of Materials Science/ Materials Engineering with specialization in polymers/ Polymer Science/ Polymer Engineering Or Ph.D (Science/Engineering)submitted on the above specialization	Candidates having experience and expertise in Polymer design / synthesis, High-performance and degradable polymers / composites / scaffolds fabrication for tissue engineering / regeneration, ink and binder development for 3D printing / bio-printing for biomedical / Engineering Applications, in depth in vitro and in vivo experiments / analysis.
2	<b>Scientist-1 post</b>  EMDSCT-01 (1 post reserved for EWS)	M.E. / M.Tech. in the field of Ceramic Engineering / Ceramic Technology / Glass & Ceramic Engineering / Materials Science/ Materials Science & Engineering / Materials Science & Technology / Materials & Metallurgical Engineering / Chemical Engineering / Chemical Sci./Nano-Science & Technology Or Ph.D (Science/Engineering)submitted on the above specialization	Candidates having Ph.D in one of the disciplines as mentioned in the essential qualification and having engineering background in the Graduation level and specialization in Li-ion Battery / Supercapacitor / Photocatalytic materials for water splitting.
3	<b>Scientist-1 post</b>  SGDSCT-01	Ph.D (Science/Engineering) submitted in the field of Ceramic Technology / Chemical / Material Science / Materials & Metallurgical	Candidates having done Ph.D work in the field of Glass Science & Technology or M.E. / M.Tech project work in the area of Glass Science &

	(1 post reserved for OBC)	Engineering / Physics / Chemistry Or M.E. / M.Tech in Ceramic Technology / Chemical / Material Science / Materials & Metallurgical Engineering	Technology.  Experience in Industrial Scale Glass melting.
4	<b>Scientist-1 post</b>  MSTSCT-01 (1 post reserved for OBC)	M.E. / M.Tech. in the field of Materials Science & Engineering / Materials Science & Technology / Metallurgical and Materials Engineering / Materials Science / Ceramic Engineering / Ceramic Technology Or Ph.D (Science/Engineering) submitted in any of the above subject.	B.E. / B.Tech. Degree in the areas of Ceramic Engineering / Ceramic Technology / Materials Science & Engineering / Materials Science & Technology / Metallurgical and Materials Engineering / Materials Science prior to attaining the essential qualification. R&D/Industrial experience in Porous materials/inorganic membranes.
5	<b>Scientist-1 post</b>  MCDSCT-01 (1 post reserved for EWS)	Ph.D (Science/Engineering) submitted in the field of Materials Science / Ceramics / Metallurgy / Physics / Chemistry	Experience in in-depth analysis of structures for different materials through Transmission Electron Microscope (TEM).

### Qualifications for recruitment of Sr. Scientists at CGCRI

Sl No.	Post Code	Essential Qualification	Desirable Qualification
1	<b>Sr. Scientist-1 post</b>  SRSACC-01 (1 post UR)	Ph.D. (Engg./Tech.) in the field of Ceramic Engineering / Technology, Materials Science/ Materials Engineering / Materials Science & Engineering / Metallurgical & Materials Engineering / Metallurgical Engineering & Materials Science  Or  Ph. D(Sci) in Physics/ Materials science (in the field of non- oxide ceramics and their composite or hard ceramic coatings) with 2 years' research/industrial experience after Ph.D.	Research experience in the area of non-oxide ceramics, which include processing / manufacturing and characterization (mechanical / tribological / thermo-mechanical and microstructural) of non-oxide ceramic materials focusing on development of monolithic ceramics / ceramic matrix composites / hard ceramic coatings for engineering applications.
2	<b>Sr. Scientist-1 post</b>  SRSEMD-01 (1 post UR)	Ph.D. (Engg./Tech.) in the field of Chemical Engineering / Materials Science/ Materials Science & Technology / Materials & Metallurgical Engineering / Ceramic Engineering / Glass & Ceramic Engineering / Materials Science & Engineering / Nano-Science/Nano-Technology Or Ph.D. (Sci.) in the field of Inorganic / Physical Chemistry / Physics/Materials Science with 2 years' post qualification research / industrial work experience in the areas of Synthesis and characterization of multi component ceramic oxides and / or processing and fabrication of ceramic components for solid oxide fuel cell / solid oxide electrolyser cell applications and / or on ceramic processing. Or M.E. / M.Tech. in the field of Chemical Engineering / Materials Science/ Materials Science & Technology / Materials & Metallurgical Engineering / Ceramic Engineering / Glass & Ceramic Engineering / Materials Science & Engineering / Nano Science/ Nano-Technology with 3 years' post qualification research / industrial work experience in the areas of Synthesis and characterization of multi component ceramic oxides and / or processing and fabrication of ceramic components for solid oxide fuel cell / solid oxide electrolyser cell applications and / or on ceramic processing.	Specialization in Solid oxide fuel cell (SOFC) / solid oxide electrolyser cell (SOEC)  Ph.D. with expertise / experience in synthesis and characterization of multi component ceramic oxides and / or processing and fabrication of ceramic components for solid oxide fuel cell / solid oxide electrolyser cell applications and / or hands-on experience in industry on ceramic processing.

3	<b>Sr. Scientist-1 post</b>  SRSFOP-01 (1 post UR)	Ph.D.(Engg./Tech.) in the field of Laser Physics / Fiber Laser / Opto-Electronics / Applied Optics Or Ph.D.(Sci.) in the field of Laser Physics / Fiber Laser / Opto-Electronics / Applied Optics with at least 2 years' post qualification research/ work experience in the areas of implementation of lasers / Fiber Laser-CW or pulsed / Laser design. Or M.E. / M.Tech in Electronics / Laser Physics /Fiber Laser / Opto-Electronics / Applied Optics with at least 3 years' post qualification research experience in the areas of implementation of lasers / Fiber Laser-CW or pulsed / Laser design.	Experience during Ph.D work in implementation of lasers / Fiber Laser-CW or pulsed / Laser design with relevant publication in SCI Journals.
4	<b>Sr. Scientist-1 post</b>  SRSFOP-02 (1 post UR)	Ph.D.(Engg.) in the field of Applied Optics / Fiber Optics / Fiber Optics Sensors / Opto-Electronics / Photonics Or Ph.D.(Sci.) in Applied Optics / Fiber Optics / Fiber Optics Sensors / Opto-Electronics / Photonics with 2 years' experience in the relevant field. Or M.E./M.Tech. in Applied Optics / Fiber Optics / Fiber Optics Sensors / Opto-Electronics / Photonics / Laser Physics / Laser Technology with at least 3 years' research experience in Fiber Optics Sensors / Fiber Bragg gratings and long period grating based sensors	Experience during Ph.D work in design and fabrication of fiber bragg grating and long period grating based sensor with relevant publication in SCI Journals.
5	<b>Sr. Scientist-1 post</b>  SRSRTC-01 (1 post UR)	Ph.D. (Engineering / Technology) in the field of Refractories Or Ph.D. (Sci.) in the field of Refractories with 2 years' post qualification experience in the area of refractory processing and characterization. Or M.E. / M.Tech in Ceramic Engineering/Materials Science (Ceramics Specialization) with 3 years' research experience in refractories or industrial experience in refractory product development / application.	Research experience during Ph.D. on refractory processing and characterization.
6	<b>Sr. Scientist-1 post</b>  SRSKHU-01 (1 post UR)	Ph.D. (Engineering / Technology) in the field of Ceramic Engineering /Materials Science (Ceramics Specialization) Or ME / M.Tech in Ceramic Engineering /Materials Science (Ceramics Specialization)with 3 years research / industrial experience in whiteware / traditional ceramics	Research experience during Ph.D. on whiteware / traditional ceramic processing and characterization / industrial solid waste utilization. Experience in product development.

In all cases, work experience should be substantiated by experience certificate issued by employer mentioning the period, while research experience should be substantiated by experience certificate / patent / publications in reputed SCI journals as first-author / corresponding author.

**UR: Unreserved; SC: Scheduled Caste; ST: Scheduled Tribe; OBC: Other Backward Class; EWS: Economically Weaker Section.**

## **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 employees (**as per 7<sup>th</sup> Pay Commission**). 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. 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.
- c. Scientists in CSIR-CGCRI 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.
- d. CSIR-CGCRI provides excellent opportunities to deserving candidates for career advancement under Assessment Promotion scheme for Scientists.

### **2. Other conditions**

- a. The applicant must be a citizen of India.
- b. The applicants with **experience in Product Development/Technology Innovation/Applied Technology** etc would be preferred and the Screening Committee will give weightage to candidates having the necessary **experience** etc. within the mandate of the laboratory.
- c. 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 online 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. **Such claims will only be considered if supported by valid documents.** Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/notification.

- d. The application should be accompanied by self-attested copies of the relevant Certificate/Mark-Sheet etc. regarding educational qualification, experience. The prescribed qualifications should have been obtained through recognized Universities / Institutions etc. **Incomplete application/applications received or not accompanied with the required certificates / documents are liable to be rejected.**
- e. In respect of equivalent clause in Essential Qualifications, if a candidate claims 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.
- f. **CSIR-CGCRI reserves the right not to fill up the post(s), if so desired by the Competent Authority. The number of Post(s) may be increase / decrease as per the requirement of the Institute. The decision of CSIR-CGCRI shall be final in this regard.**
- g. The period of experience rendered by a candidate on part time basis, daily wages, visiting/ guest faculty **will not be counted** for calculating the valid experience for short listing the candidates for interview.
- h. If any document/ certificate is furnished 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.
- i. **The date for determining the upper age limit, qualifications and /or experience etc. shall be the closing date of receipt of online application.**

- j. 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 post.
- k. Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.
- l. Candidates applying against posts reserved for EWS must ensure that their EWS certificate is valid as on the date of submission of the application.
- m. Candidates applying against posts reserved for OBC must ensure that they submit a valid 'Non Creamy Layer' certificate in support of their claim.
- n. Only outstation candidates, if called for physical 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 **Howrah/Sealdah** Railway Station on production of Rail Tickets/Rail Ticket Numbers.
- o. 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.
- p. The decision of CSIR-CGCRI in all matters relating to eligibility, acceptance or rejection of applications, mode of selection and conduct of examination/interview will be final and binding on the candidates.
- q. Candidates having marks expressed in CGPA/DGPA/OGPA etc. must convert them into their equivalent percentage of marks as per norms of the University/Institute concerned.
- r. **Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post.**

### 3. Relaxations :

- a. The upper age limit is relaxable up to 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 application.
- b. Upper age limit is also relaxable up to 05 years for the regular employees working in CSIR laboratories / Institutes, Government Departments, Autonomous Bodies and Public Sector Undertakings in accordance with the instructions and orders issued by the Government of India from time to time in this regard.
- c. As per GOI provisions, age relaxation will be applicable up to the age of 35 years (up to 40 years for members of Scheduled Castes and Scheduled Tribes) for Widows, Divorced Women and Women Judicially separated from their Husbands who are not remarried since case occurred. 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 that they have not remarried since.
- d. Age relaxation to Persons with Benchmark Disabilities: Age relaxation of 10 years is allowed (total 15 years for STs and 13 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 as PwBD 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.

**4. How to apply:**

- a. Eligible candidates are required to **apply online** using the **link provided in the Institute's website** ([www.cgcri.res.in](http://www.cgcri.res.in))
- b. If the candidates do not have a valid email id, he/she should create a new valid email id before applying. Further, candidates are required to keep the email address alive during the course of entire recruitment process as all the communication will be made through registered email only.
- c. Candidates are required to submit their **Application Fees of Rs. 500/- (Rupees Five Hundred Only)** through NEFT/RTGS/Bank Transfer only in favor of "Central Glass & Ceramic Research Institute" A/c No. **30267963259** of State Bank of India, Jadavpur University Branch (IFSC Code No.SBIN0000093). **No other means of payment of fees will be accepted.** The Unique Transaction Receipt (UTR) No. should be mentioned in the online application form. The candidates belonging to SC/ST/PwBD/Women/CSIR Employees are exempted from submission of application fee.
- d. Application once submitted online 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 future recruitment or selection process.
- e. **The Summary Sheet generated on online submission of application should be printed and duly signed at the designated space. The duly signed Summary Sheet should be 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, where applicable, should be sent in an A-4 SIZE ENVELOPE superscribing "APPLICATION FOR THE POST OF SCIENTIST / SR. SCIENTIST (Post Code \_\_\_\_\_)" by post to the address:- Administrative Officer, CSIR-Central Glass & Ceramic Research Institute, 196, Raja S. C. Mullick Road, Kolkata – 700032. Candidates applying for more than one post must submit separate application form for each post indicating the Code No. of the post. Separate application fee, as applicable, will have to be paid for each post. The last date of receiving hard copies of the print out of online generated summary sheet application will be 15.03.2023.**
- f. Applications from **employees of Government Departments** will be considered only if forwarded **through proper channel**. Such applications should be certified by the employer that the applicant, if selected, will be relieved within a period of one month from the date of the receipt of the appointment orders. A Vigilance Clearance declaration should also be submitted. However, Advance Copy of the print out of the online generated summary sheet along with all supporting documents should be forwarded to the Institute within the prescribed time line. The phrase "**Advanced Copy**" should be clearly mentioned on the top of the Summary Sheet. Applications routed through proper channel should reach **Administrative Officer, CSIR-Central Glass & Ceramic Research Institute, 196, Raja S. C. Mullick Road, Kolkata – 700032** within the prescribed last date of receipt of hard copy.
- g. Candidates should specifically note that the online generated summary sheet 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-Central Glass & Ceramic Research Institute, Kolkata**.
- h. General information / instructions for online application are given at our website [www.cgcri.res.in](http://www.cgcri.res.in). Applicants/candidates are requested to visit CSIR-CGCRI website time and again for any further information/updates.
- i. **Incomplete applications (i.e. without photograph, signature and reference of application fee, applicable testimonials etc.) will not be entertained and will be summarily rejected.**
- j. CSIR-CGCRI strives to have a workforce that reflects gender balance and women candidates are encouraged to apply.
- k. Sending hardcopy of the application in any form without having applied online will be summarily rejected.
- l. Similarly, non submission of print outs of online generated Summary Sheet accompanied by supporting documents will also be rejected.
- m. Candidates are required to retain the application number generated online during submission of application. The application number should necessarily be used in all future correspondence.
- n. Candidates should go through the advertisement thoroughly before applying.

- o. If a candidate is found to be ineligible with respect to the requirement of the post, his/her candidature is liable to be cancelled at any stage of the selection process or even after the recruitment is over.

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

- a. Self-attested photocopy of Class X Certificate as proof of Date of Birth.
- b. Self-attested photocopies of all Mark-Sheets / Certificates as proof of educational qualifications.
- c. Self-attested photocopy of caste certificate, if applicable.
- d. Self-attested photocopy of Physical Disability Certificate, if applicable,
- e. Self-attested photocopies of valid experience certificates, if any.
- f. Self-attested photocopy of currently valid EWS/OBC (Non-Creamy Layer) certificate, if applicable.

**INTERIM ENQUIRIES WILL NOT BE ATTENDED TO.**

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