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

Advertisement no. 01/2017

Last Date for Receipt of the online application 20.03.2017

A unique opportunity for research careers in Science & Technology

The CSIR-CGCRI is 4th oldest Research and Development (R&D) Laboratory under the CSIR, 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 are 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 vacancy of following posts of scientists as per the details given below. *(The posts have been advertised in PB-3 and / or PB-4 with requisite requirements of each grade pay within the pay band as per 6th CPC).*

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

No. of Posts with reservation	Designation	Pay Band	Grade Pay	*Total Emoluments	**Upper Age Limit not exceeding (as on last date)
08 posts (UR:4;ST:1, OBC:3)	**Scientist**	Rs.15600-39100 (PB-3)	Rs.6600/-	Rs.67513/- (Kolkata) Rs.67513/-/- (Naroda) Rs.64843/- (Khurja)	32 years
	Senior Scientist		Rs.7600/-	Rs. 84345/- (Kolkata) Rs. 84345/- (Naroda) Rs.78445/- (Khurja)	37 years
05 posts (UR:4; UR-OH:1)	**Principal Scientist**	Rs.37400-67000 (PB-4)	Rs.8700/-	Rs.127695/- (Kolkata) Rs.127695/- (Naroda) Rs.118455/- (Khurja)	45 years
	Sr. Principal Scientist		Rs.8900/-	Rs. 135505/- (Kolkata) Rs. 135505/- (Naroda) Rs. 125685/- (Khurja)	50 years

* Total Emoluments means approximate total emoluments on minimum of scale including House Rent Allowance according to the city as admissible (as per 6th Pay Commission).

** The pay band will be suitably modified, if required, to conform to seventh pay commission

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

Post code	Pay Band	Names and No. of Posts / reservation & Grade Pay(GP) /Age limit not exceeding (Relaxable as per GOI rules)	Essential Educational Qualifications & Experience	Desirable Experience in the area	Job specification
A-01 **Post 1: UR**	37400-67000 (PB-4)	Principal Scientist Grade pay: Rs. 8700/- Age limit : 45yrs	PhD in Physics/Chemistry/ Biotechnology **with 3 years experience** **OR** PhD in Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/Materials & Metallurgical Engineering/Ceramic Engineering /Ceramic Technology/Chemical Engineering and Technology/Biomedical Engineering/Biochemical Engineering/Biotechnology **with 3 years experience**	The candidate should have experience of at least four years in a leadership position, preferably in the Indian context, of projects on fabricating and characterizing biomaterials/ bio-ceramics, /glass-ceramics and composite products and components for biomedical applications. The candidate should have proven proficiency in synthesis, characterization and fabrication of ceramic components for biomedical applications. The candidate should also have proven skills in leading large sponsored projects with timely execution and strict deliverables.	The candidate will have to lead a team of scientific & technical staff in the area of material synthesis, fabrication and characterization of biomaterials/bio-ceramics, bio-glass/glass-ceramics and composite products and components for biomedical applications with strict deliverables and timelines. In addition, the candidate is expected to earn sponsored research projects and perform translational research for transferring technology developed in-house to prospective industry partners as per CSIR mandates.
		Senior Principal Scientist Grade pay: Rs. 8900/- Age limit : 50 yrs	PhD in Physics/Chemistry/ Biotechnology **with 6 years experience** **OR** PhD in Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/Materials & Metallurgical Engineering/Ceramic Engineering /Ceramic Technology/Chemical Engineering and Technology/Biomedical Engineering/Biochemical Engineering/Biotechnology **with 6 years experience**		

A-02 **Post 1: OBC**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit : 32yrs	M.E./M. Tech. in Chemical Engineering/Chemical Engineering and Technology/ Mechanical Engineering/Ceramic Engineering/Ceramic Technology/ Glass and Ceramic Engineering **OR** BE/BTech. with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Chemical Engineering/ Chemical Engineering and Technology/Mechanical Engineering/Ceramic Engineering/ Ceramic Technology/ Glass and Ceramic Engineering.	Industrial and / or R & D exposure in the following areas: Thermal management(400-800°C range) involving catalytic reforming / handling various gases and their mixtures in pressurized conditions/ simulations for flow/ pressure and temperature gradient in 2D or 3D system using MATLAB or COMSOL multi physics or similar software	The candidate will be working in the design, development and fabrication of electrochemical conversion systems like solid oxide fuel cell. The development of the system will involve balance of plant with associated thermal management and facility creation for scaling up to kilowatt levels, vendor development and on-site testing of the system at designated locations.
		Senior Scientist Grade Pay Rs. 7600/- Age limit : 37yrs	M.E./M. Tech. in Chemical Engineering/ Chemical Engineering and Technology/ Mechanical Engineering/ Ceramic Engineering/ Ceramic Technology/ Glass and Ceramic Engineering **with 3years experience** **OR** PhD in Chemical Engineering/ Chemical Engineering and Technology/Mechanical Engineering/ Ceramic Engineering/ Ceramic Technology/ Glass and Ceramic Engineering		
A-03 **Post 1: UR**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit: 32yrs	M.E./M. Tech. in Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/Materials & Metallurgical Engineering/ Ceramic Engineering/ Ceramic Technology/ Glass & Ceramic Engineering **OR** BE/B. Tech. with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/Materials & Metallurgical Engineering/	Expertise/experience required in fabrication and designing of hybrid nanostructured metal oxides, spinel/ perovskite-structured mixed metal oxides, composite metal oxides and other metal oxides for low temperature device applications. Must have aptitude for newer/novel material development and to tailor-made their properties in working device/product. The	The candidate is expected to carry out advanced research work in fast track mode to develop nanostructured functional materials which will be leading to development of advanced low temperature solid oxide fuel cell device for application below 500°C. The candidate is also required to lead a team for translating the

			Ceramic Engineering/Ceramic Technology/ Glass & Ceramic Engineering/Physics/Materials Science/Chemistry	candidate must have proven track record of very good research publications in SCI journals.	developed this laboratory device / product to next higher level/scale so as to transfer the processes/ technologies(patented) to industries.
		Senior Scientist Grade Pay Rs. 7600/- Age limit : 37 yrs	PhD in Physics/Materials Science/Chemistry **with 2 years experience** **OR** PhD in Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/ Materials & Metallurgical Engineering/ Ceramic Engineering/Ceramic Technology/Glass and Ceramic Engineering **OR** M.E./M. Tech. in Metallurgical Engineering/Materials Science & Engineering/ Materials Science & Technology/Materials & Metallurgical Engineering / Ceramic Engineering/ Ceramic Technology/Glass and Ceramic Engineering **with 3 years experience**		
A-04 **Post 1: OBC**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit: 32yrs	M.E./M. Tech. in Chemical Engineering/Ceramic Engineering/ Ceramic Technology/ Metallurgical Engineering/ Metallurgical and Materials Engineering/ Materials Science & Technology/Materials Science & Engineering/ Metallurgy/Glass & Ceramic Engineering **OR** BE/B Tech. with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Metallurgical and Materials Engineering/ Metallurgy/ Glass & Ceramic Engineering/ Chemical Engineering/ Chemical Engineering & Technology/ Ceramic Engineering/ Ceramic Technology/Metallurgical	The candidate should have hands-on experience in industry and/or R&D organization in the area of Refractory / Ceramic processing and reasonable proficiency in characterization in the area of thermal, mechanical & thermo-mechanical properties, especially in TGA/DTA/Dilatometry, Microscopy (SEM, TEM etc.) of Ceramic raw materials & products	The candidate will have to develop shaped and unshaped refractory and characterise its thermo-mechanical and thermo-chemical properties. The candidate is expected to write research proposals to sponsoring agencies and take part in translational/incubational activities for transfer of technology to industries. The candidate is also expected to lead

			Engineering/ Materials Science & Engineering/ Materials Science & Technology/ Chemistry		the project independently.
		Senior Scientist Grade Pay Rs. 7600/- Age limit: 37 yrs.	M.E./M. Tech in Chemical Engineering/ Ceramic Engineering/ Ceramic Technology/ Metallurgical Engineering/ Metallurgical and Materials Engineering/ Materials Science & Technology/Materials Science & Engineering/ Metallurgy/ Glass & Ceramic Engineering **with 3years experience** **OR** PhD in Chemistry **with 2 years experience** **OR** PhD in Metallurgical and Materials Engineering/Metallurgy/Glass & Ceramic Engineering/Chemical Engineering/Chemical Engineering Technology/Ceramic Engineering/Ceramic Technology/ Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology		
A-05 **Post 1: UR**	37400-67000 (PB-4)	Principal Scientist Grade pay: Rs. 8700/- **Age limit : 45yrs**	PhD in Physics/Mathematics **with 3 years experience** **OR** PhD in Metallurgical Engineering/Materials Science& Engineering/ Materials Science & Technology / Materials & Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology **with 3 years experience**	The candidate should have experience of at least 4 years in a leadership position, preferably in the Indian context, of projects on fabricating and characterizing non-oxide ceramics, glass/glass-ceramics and composite components as well as hard coatings for electromagnetic, optical, electronic and structural applications. The candidate should have proven proficiency in spectroscopic	The candidate will have to lead a team of scientific & technical staff in the area of fabrication and characterization of non-oxide ceramics, glass/glass-ceramics and composite components (e.g., reaction bonded silicon nitride, silicon carbide coatings, CNT-glass composites etc.) with strict deliverables and timelines. In addition, the

		Senior Principal Scientist Grade pay: Rs. 8900/- **Age limit : 50 yrs**	PhD in Physics/Mathematics **with 6 years experience** **OR** PhD in Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology / Materials & Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology **with 6 years experience**	characterization (UV/VIS-NIR, Photoluminescence, Quantum efficiency etc.), mechanical characterization (e.g., elastic behaviour, fracture mechanics etc.) and thermal characterization (e.g., thermal diffusivity, thermal expansion, TG/DTA etc.) for ceramics, glass/glass-ceramic and composite materials. The candidate should have proven skills in guiding students and research fellows in large sponsored projects with timely execution and strict deliverables.	candidate is expected to earn sponsored research projects and perform translational research for transferring technology developed in-house to prospective industry partners as per CSIR mandates.
A-06 **Post 1: UR**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit : 32yrs	M.E/ M. Tech in Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/ Materials & Metallurgical Engineering / Metallurgy/ Glass and Ceramic Engineering/ Ceramic Engineering/ Ceramic Technology **OR** BE/B.Tech with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/ Materials & Metallurgical Engineering / Metallurgy/ Glass and Ceramic Engineering/ Ceramic Engineering/ Ceramic Technology	Minimum two years' experience in reputed ceramic processing industry with firsthand knowledge in raw material preparation, characterization and different unit operations of the ceramic processing industry. The candidate should have aptitude for newer product development and experience in this field would be desirable.	The candidate is expected to carry out research in the field of porous ceramics leading to newer and advanced products. The candidate is also required to work in the industry premises frequently for translating the laboratory formulations into products, operations and maintenance of ceramic processing equipment,

		Sr. Scientist Grade Pay Rs. 7600/- Age limit: 37 yrs.	M.E/ M. Tech in Metallurgical Engineering/Materials Science & Engineering/Materials Science & Technology/ Materials & Metallurgical Engineering / Metallurgy/ Glass and Ceramic Engineering/Ceramic Engineering/ Ceramic Technology **with 3years experience** **OR** Ph.D in Metallurgical Engineering/ Materials Science & Engineering/Materials Science & Technology/ Materials & Metallurgical Engineering / Metallurgy/ Glass and Ceramic Engineering/Ceramic Engineering/ Ceramic Technology		detailed analysis and characterization of raw material and finished products.
A-07 **1 post: UR**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit : 32yrs	M.E./M. Tech in Electronics and Communication Engineering/Optoelectronics and Optical Communication/ Optoelectronics/ Micro-electronics/Glass and Ceramic Engineering **OR** BE/BTech with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Materials Science & Engineering/Materials Science & Technology/Metallurgical and Materials Engineering/ Metallurgical Engineering/Metallurgy/ Ceramic Engineering/ Electronics and Communication Engineering/Physics/ Chemistry/ Physical Science/ Chemical Science.	The candidate should have hands-on experience in R&D establishments or Industry in the area of materials characterization using Dual Beam SEM and Focused Ion Beam (FIB) as well as Transmission Electron Microscopy and/or X-ray photoelectron spectroscopy (XPS) of electronic and optoelectronic device structures, advanced ceramics, metallic and composite materials, micro-fabrication of textured substrates	The candidate will be expected to carry out characterization studies on advanced ceramics, glass, metallic and composite materials using techniques mentioned in the previous column. The candidate should have aptitude to work in a team for large sponsored projects with strict deliverables and timelines.

		Senior Scientist Grade Pay Rs. 7600/- Age limit : 37 yrs	M.E./M. Tech in Electronics and Communication Engineering/Optoelectronics and Optical Communication / Optoelectronics/ Microelectronics/Glass and Ceramic Engineering **with 3 years experience** **OR** PhD in Physics/ Chemistry/ Physical Science/Chemical Science **with 2 years experience** **OR** PhD in Materials Science & Engineering/Materials Science & Technology/Metallurgical and Materials Engineering/ Metallurgical Engineering/ Metallurgy/ Ceramic Engineering/ Electronics and Communication Engineering	with FIB etc.	
A-08 **Post 1: ST**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit : 32yrs	M.E./M. Tech in Electronics and Communication Engineering/Electronics Engineering /VLSI Design & Microelectronics Technology/ / Nano-science & Technology/ Materials Science/ Materials & Engineering/ Materials Science & Technology/ Metallurgical Engineering/ Ceramic Engineering/ Ceramic Technology/Glass and Ceramic Engineering **OR** BE/BTech with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Electronics and Communication Engineering/Electronics Engineering/ VLSI Design & Microelectronics Technology/ /Nano-science & Technology/Materials Science/ Materials & Engineering/ Materials Science & Technology/ Metallurgical Engineering/ Ceramic Engineering/ Ceramic Technology/Glass and Ceramic Engineering/Physics/Chemistry/ Applied Physics	The candidate should have R&D experience in the area of micro fabrication of device and engineering, and/or synthesis, fabrication and characterization of nano-materials for sensor development and/or Ceramic based thin/thick films for gas and bio-sensors etc. in addition to having proven skills in the area of basic science/engineering.	The candidate will be expected to work as a team member focusing on the development, demonstration and validation of indigenous sensor development (such as, MEMS based gas sensors, bio-sensors etc.) and technology. The candidate is also expected to take part in translational / incubation activities in the area of sensors and actuators for technology transfer to industries.

		Senior Scientist Grade Pay Rs. 7600/- Age limit : 37yrs	M.E./M. Tech in Electronics and Communication Engineering/Electronics Engineering /VLSI Design & Microelectronics Technology/ /Nano-science & Technology/Materials Science/ Materials & Engineering/ Materials Science & Technology/ Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology/Glass and Ceramic Engineering **with 3 years experience** **OR** PhD in Physics/ Chemistry/ Applied Physics **with 2 years experience** **OR** PhD in Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/ Metallurgy and Materials Engineering/Ceramic Engineering/Ceramic Technology/ Chemical Engineering & Technology/Electronics and Communication Engineering		
A-09 **Post 1: UR**	37400-67000 (PB-4)	Principal Scientist Grade pay: Rs. 8700/- **Age limit : 45yrs**	PhD in Physics/ Chemistry **with 3 years experience** **OR** PhD in Ceramic Engineering/Ceramic Technology/ Metallurgical Engineering/ Materials Science & Engineering/ Materials & Metallurgical Engineering/Chemical Engineering/Materials Science and Technology/ Glass and Ceramic Engineering/ Technology **with 3 years experience**	The candidate should have experience of at least four years in a leadership position, preferably in the Indian context, of projects on development, fabrication and characterization of laser glass, chalcogenide glass, oxide glass for radiation shielding applications, sealing glass, bio-glass, glass for solar photo voltatic applications, advanced structural and functional	The candidate will have to lead a team of scientific & technical staff in the area of glass & glass-ceramics (details in the previous column) with strict deliverables and timelines. In addition, the candidate is expected to earn sponsored research projects and perform translational research for transferring

		Senior Principal Scientist Grade pay: Rs. 8900/- **Age limit : 50 yrs**	PhD in Physics/Chemistry **with 6 years experience** **OR** PhD in Ceramic Engineering/Ceramic Technology/ Metallurgical Engineering/Materials Science & Engineering/ Materials & Metallurgical Engineering/Chemical Engineering/ Materials Science and Technology/ Glass and Ceramic Engineering/ Technology **with 6 years experience**	glasses, glass-ceramics for ultra low expansion and other applications. The candidate should have proven proficiency in developing novel glass/glass-ceramics for advanced applications. The candidate should also have proven skills in leading large sponsored projects with timely execution and strict deliverables.	technology developed in-house to prospective industry partners as per CSIR mandates.
A-10 **Post 1: OBC**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit : 32yrs	M.E./M. Tech in Metallurgical Engineering/Materials & Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology **OR** BE/BTech with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Metallurgical Engineering/Materials & Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology/Physics/Mathematics	The candidate should have hands-on experience in Indian industry and/or R&D establishments in the area of microwave processing / sintering of metallic, ceramic powders and non-destructive testing and evaluation as well as failure analysis of metallic, composite, ceramic components and hard coatings at ambient temperature and at high temperature in service. It is desirable that the candidate also has reasonable proficiency in mechanical testing (Tensile,	The candidate will have to fabricate sintered non-oxide ceramics components using microwave technology and establish ultrasonic NDT protocols for estimation of elastic behavior and damage detection in green and sintered ceramic, metallic and composite specimens at ambient and elevated temperatures. The candidate is expected to write research proposals to Indian sponsoring agencies and lead projects independently

		Senior Scientist Grade Pay Rs. 7600/- Age limit : 37 yrs	M.E./M. Tech in Metallurgical Engineering/Materials & Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology **with 3 years experience** **OR** PhD in Physics/Mathematics **with 2 years experience** **OR** PhD in Metallurgical Engineering/Materials & Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/Metallurgical Engineering/Ceramic Engineering/ Ceramic Technology	Compressive, Hardness testing), thermal characterization (DSC/DTA/Dilatometry), Microscopy (SEM, EDS, TEM), Quantitative X-ray diffraction, X-ray fluorescence.	with strict timelines and deliverables.
A-11 **Post 1: UR**	15600-39100 (PB-3)	Scientist Grade Pay Rs. 6600/- Age limit : 32yrs	M.E./M. Tech in Metallurgical Engineering/Materials Science & Engineering/ Materials Science & Technology/ Materials & Metallurgical Engineering / Ceramic Engineering/ Ceramic Technology **OR** BE/BTech with Advanced Diploma from AcSIR in above disciplines with distinction **OR** **PhD thesis submitted in the following disciplines:** Physics/Materials Science/ Chemistry/Metallurgical Engineering/ Materials Science & Engineering/ Materials Science & Technology/ Materials & Metallurgical Engineering / Ceramic Engineering/ Ceramic Technology	Industrial and R & D exposure in lithium-ion battery research/technology in India. Research and industrial experience in lithium-ion battery component development, large scale cell fabrication, characterization etc. with hands -on experience in product up-scaling. Must have proven track record with patent and research	The candidate will need to work in the area of large volume product development related to Lithium-ion Battery/Solid Oxide Fuel Cell/ Dense Ceramic Membrane with strict timelines and deliverables as per CSIR mandate. The candidate will be responsible for transferring developed product related to the above mentioned

		Senior Scientist Grade Pay Rs. 7600/- Age limit : 37yrs	M.E./M. Tech in Metallurgical Engineering/Materials Science & Engineering/ Materials Science & Technology/ Materials & Metallurgical Engineering / Ceramic Engineering/ Ceramic Technology **with 3 years experience** **OR** PhD in Physics/Materials Science/Chemistry **with 2 years experience** **OR** PhD in Metallurgical Engineering/ Materials Science& Engineering/ Materials Science & Technology/ Materials & Metallurgical Engineering / Ceramic Engineering/ Ceramic Technology	publications in SCI journals related to Lithium battery technology.	areas to prospective industrial partners through incubation and translational activities
A-12 **Post 1: UR**	37400-67000/- (PB-4)	Principal Scientist Grade Pay Rs. 8700/- Age limit : 45 yrs	PhD in Physics/Chemistry/ Materials Science **with 3 years experience** **OR** PhD in Mechanical Engineering/Chemical Engineering/Metallurgy & Materials Engineering/Metallurgical Engineering/Ceramics Engineering/Ceramic Technology/Materials Science & Technology/ Laser Science & Technology/ Laser Engineering **with 3 years experience**	The candidate should have hands-on experience in industry and/or R&D establishments in the area of advanced fabrication technologies (net shape manufacturing/micro /nano-fabrication, additive manufacturing, laser machining, material inkjet printing, etc.) for metallic, ceramic, polymeric and composite materials. It is desirable that the	The candidate will have to plan, develop and execute advanced fabrication of metallic, ceramic, polymeric and composite materials towards making components for various engineering applications. The candidate has to earn sponsored research projects from various agencies. The candidate is

		Senior Principal Scientist Grade Pay Rs. 8900/- Age limit : 50yrs	PhD in Physics/Chemistry/ Materials Science **with 6 years experience** **OR** PhD in Mechanical Engineering/Chemical Engineering/Metallurgy & Materials Engineering/Metallurgical Engineering/Ceramics Engineering/Ceramic Technology/Materials Science & Technology/ Laser Science & Technology/ Laser Engineering **with 6 years experience**	candidate also has reasonable proficiency in mathematical modeling and simulation, especially, finite element analysis (structural/thermal) and/or computational fluid dynamics in the area of advanced manufacturing. The candidate should have proven skills for leading a team of researchers and executing sponsored projects with strict deliverables and timelines.	expected to lead a team of researchers and take part in translational / incubation activities for transfer of technology to industry partners.
A-13 **Post 1: UR (OH)**	37400-67000/- (PB-4)	Principal Scientist Grade Pay Rs. 8700/- Age limit : 45yrs	PhD in Physics/Chemistry/ Materials Science **with 3 years experience** **OR** PhD in Mechanical Engineering/ Chemical Engineering/Metallurgy & Materials Engineering/ Metallurgical Engineering/ Ceramics Engineering/Ceramic Technology/Materials Science & Technology/ Laser Science & Technology/ Laser Engineering **with 3 years experience.** **OR** PhD in Management/Intellectual Property Rights **with 3 years experience.**	Expertise in Management/Intellectual Property Rights. Registered Patent Agents would be given preference. Knowledge of technology/IP valuation and pricing would be desired.	To coordinate management of IP portfolio of the institute including drafting preliminary examination of patent applications; IP landscaping; IP analytics. To assist in technology licensing, marketing and business development functions.

		Senior Principal Scientist Grade Pay Rs. 8900/- Age limit : 50yrs	PhD in Physics/ Chemistry/ Materials Science)**with 6 years experience** **OR** PhD in Mechanical Engineering/Chemical Engineering/Metallurgy & Materials Engineering/Metallurgical Engineering/Ceramics Engineering/Ceramic Technology/Materials Science & Technology/ Laser Science & Technology/ Laser Engineering **with 6 years experience.** **OR** PhD in Management/Intellectual Property Rights **with 6 years experience.**		

UR: Unreserved; SC: Scheduled Caste; ST: Scheduled Tribe; OBC: Other Backward Class; OH: Orthopedically Handicapped.

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 stationed in **Kolkata/Khurja/Naroda (as per 6th 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. 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. (As per 6th CPC recommendations)

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/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.

e. CSIR/CGCRI 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. The applicants must have **experience in Product Development/Technology Innovation/Applied Technology** etc.

c. The Screening/Selection Committee will give weightage to candidates having **experience in Product Development/Technology Innovation/Applied Technology** etc.

d. 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, supported with documents. Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/notification.

e. 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.

f. 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.

g. Number of posts may vary at the time of selection.

h. 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.

i. If any document/ certificate 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.

j. The date for determining the upper age limit, qualifications and /or experience etc. shall be the closing date of receipt of online application.

k. The period of experience in a discipline / area of work, wherever prescribed, **shall be counted after the date of acquiring the minimum prescribed educational qualifications** prescribed for that Grade.

l. Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.

m. In case a candidate is staying abroad, his/her candidature may be considered ***in absentia*** by the Selection Committee on his/her written request.

n. 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 criteria specified.

o. 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 **Howrah/Sealdah** Railway Station on production of Rail Tickets/Rail Ticket Numbers.

p. 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.

q. The decision of the 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.

r. 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.

s. Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post.

t. NO INTERIM ENQUIRY OR CORRESPONDENCE WILL BE ENTERTAINED.

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 interview.

b. Upper age limit is also relaxable up to 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 will be applicable up to the age of 35 years (upto 40 years for members of Scheduled Castes and Scheduled Tribes) but no relaxation of educational qualification or method of recruitment for Widows, Divorced Women and Women Judicially separated from Husbands who are not remarried. 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 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 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. However the maximum age limit must not exceed 56 years.

e. Relaxation in age, over and above the stipulated limit, educational qualification and / or experience may be considered in case of exceptionally meritorious candidates orif 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** using the **link provided in the Institute's website** (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.

c. **Candidates are required to submit their Application Fees through Demand Draft only of State Bank of India, in favor of "Central Glass & Ceramic Research Institute" Payable at Jadavpur University Branch, Kolkata (Code No.000093).No other means of payment of fees will be accepted**. The candidates belonging to SC/ST/PH/Women/CSIR Employees are exempted from submission of application fee.

d. 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.

e. The summary sheet generated on online submission of application 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 should be sent in an envelope superscribed "APPLICATION FOR THE POST OF _____ (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 fee will have to be paid for each post. The last date of receiving hard copies of the print out of online application will be **31.03.2017**.

f. 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.

g. 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 **Administrative Officer, CSIR-Central Glass & Ceramic Research Institute, 196, Raja S. C. Mullick Road, Kolkata – 700032** at the earliest.

h. 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-Central Glass & Ceramic Research Institute, Kolkata**.

i. Incomplete applications (i.e. without photograph, unsigned and 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. General information / instructions for online application are given at our website www.cgcri.res.in. Applicants/candidates are requested to keep on visiting our website, for any further information/update.

l. Sending hardcopy of the application in any form without having applied online will be treated as no application.

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

a Coloured photograph pasted on the summary sheet and signed across in full.
b Self-attested photocopy of Date of Birth Certificate.
c Self-attested photocopies of education qualifications certificates.
d Self-attested photocopy of caste certificate, if applicable.
e Self-attested photocopies of experience certificates, if any