



CSIR-CENTRAL BUILDING RESEARCH INSTITUTE

(Council of Scientific & Industrial Research)

ROORKEE - 247 667
(Website:www.cbri.res.in)



ADVERTISEMENT NO. CSIR-CBRI- 02/2017

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A Unique opportunity for research careers in Science & Technology

The Council of Scientific & Industrial Research (CSIR) is an autonomous organization under the Ministry of Science & Technology, Government of India. It is amongst the foremost Scientific and Industrial research set-ups in the World. Having state-of-the-art infrastructure and scientific and technical manpower second to none, CSIR covers practically the entire spectrum of scientific and industrial R&D of national and international importance. This ranges from aerospace to ocean exploration, micro-electronics to safe built environment, smart materials to mechatronics, petrochemicals to synthetic biology and from robotics and macro-machines to drugs and pharmaceuticals and agrochemicals.

CSIR-CENTRAL BUILDING RESEARCH INSTITUTE, ROORKEE is a premier institute under the Council of Scientific and Industrial Research (CSIR).The major areas of R&D thrust of the Institute include applied and basic research in various areas of Building Science and Technology to provide S&T based innovative solutions related to Advanced Construction Materials, Structure & Foundation, Energy efficient building system, development of process equipment, Health monitoring of building structures, environmental monitoring and Disaster (Landslide, Fire, Earthquake, Cyclone) Mitigation, Intelligent & smart buildings Research, Development and Innovation etc. are aimed at creation of new Building Materials and Construction Technologies, to build up excellent facilities for experimentation/testing in the frontier areas of building science & technology over the decades.

In order to meet the incoming demands of research in both basic and applied sciences, applications are invited from enthusiastic, young Indian researchers having excellent academic record and proven scientific achievements with a high degree of motivation and desire to take up research as a career for the following posts of Scientists as per the details given below. Further, CSIR-CBRI strives to have a work force which reflects gender balance and hence women candidates are encouraged to apply.

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

Designation	No. of posts	Pay Matrix/Level	Total Emoluments approx. (per month)	**Upper Age Limit not exceeding (as on last date of application)
*Scientist	Total 17 Nos. Out of 17 posts 09 backlog reserved vacancies and 08 fresh vacancies. 09 backlog vacancies (SC-03,ST-01,OBC-05)	7 th CPC Level-11 Rs.67700/- plus usual allowances	Rs.67700/- + D.A. + HRA (as admissible)	32 years
*Senior Scientist	& 08 fresh vacancies (UR-04, SC-01, OBC-03)	7 th CPC Level-12 Rs. 78800/- plus usual allowances	Rs.78800/- + D.A. + HRA (as admissible)	37 years

Senior Scientist	Total 2 Nos. (UR)	7 th CPC Level-12 Rs. 78800/- plus usual allowances	Rs.78800/- + D.A. + HRA (as admissible)	37 years
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UR: Unreserved; SC: Scheduled Caste; ST: Scheduled Tribe; OBC: Other Backward Class

*Number of posts mentioned for Scientist and Senior Scientists are common i.e. 17 posts.

** Please see age relaxation under Relaxation column.

Scientist/ Senior Scientist - Total 17 posts :-

Post code	Pay Level	Names and No. of Posts/ reservation & Age limit not exceeding	Essential Educational qualifications & experience	Desirable Experience	Job specification
01	Level -11	Scientist 08 Posts (UR-4, SC-1, ST-1,OBC-2) 32 years	M.E./M.Tech in Civil Engineering with specialization in Structural Engineering/Geotechnical Engineering/Building Engineering and Disaster Mitigation/Engineering of infrastructure and disaster mitigation/Building Science and Technology/Earthquake Engineering with bachelors degree or equivalent in Civil Engineering OR Ph.D.(Engg.) (submitted) with B.E./B.Tech. in Civil Engineering in any of above areas.	Working Knowledge in some of the areas like Building Materials Engineering, Structural Fire Engineering, Disaster Resistant Structural system, Prefabricated Building system, Ground Improvement Techniques, Deep Foundation, Corrosion Science and Engineering, Use of Nano science & Technology in cement, Composite Structural System. Application of Geo-synthetics in foundations and Retaining Structures, Solid/Liquid Waste utilization and Heritage Structures.	Selected candidates will have to undertake research, development and innovative product development activities in the areas of the Institute . Placement of the candidates in different functional groups will be done as per the requirement of the Institute keeping in mind the knowledge and experience of the selected candidates. In addition to the R&D activities, consultancy/sponsored/grant -in-aid projects are also to be handled either independently or in a team. Selected candidates as per the requirements may have to take classes in the laboratory unit of the Academy of Scientific & Innovative Research (AcSIR) which is offering the Masters/Ph.D Degrees. Selected candidates will also have the opportunity to supervise Research Scholars of the Academy (AcSIR) leading to their Ph.D. Degree as per the norms of the Academy.
	Level -12	Sr. Scientist 08 Posts (UR-4, SC-1, ST-1,OBC-2) 37 years	M.E./M.Tech in Civil Engineering with specialization in Structural Engineering/Geotechnical Engineering/Building Engineering and Disaster Mitigation/Engineering of infrastructure and disaster mitigation/Building Science and Technology/ Earthquake Engineering with bachelors degree or equivalent in Civil Engineering with three years relevant experience OR Ph.D. in any of the above areas with B.E./B.Tech. in Civil Engineering.		
02	Level -11	Scientist 03 Posts (SC-1, OBC-2) 32 years	M.E./M.Tech in Mechanical Engineering OR Ph.D (submitted) in Mechanical Engineering.	Kinematics of machinery/ Engineering design/Auto CAD/Solid works/FEM software/Machinery for building construction and automation/Indirect cooling/Heating of buildings and/Solar energy.	
	Level -12	Sr. Scientist 03 Posts (SC-1, OBC-2) 37 years	M.E./M.Tech in Mechanical Engineering with three years relevant experience OR Ph.D in Mechanical Engineering.		

03	Level -11	Scientist 01 Post (OBC-1) 32 years	M.E./M.Tech in Electronics and Instrumentation Engineering/Electronics and Communication OR Ph.D (submitted) in Electronics and Instrumentation Engineering or Electronics and Communication.	Measurement and instrumentation/Sensors & transducers/Wireless sensor network/Strain, acceleration, displacement measurement/Network hardware & software/ Computational methods/Control systems.
	Level -12	Sr. Scientist 01 Post (OBC-1) 37 years	M.E./M.Tech in Electronics and Instrumentation Engineering/Electronics and Communication with three years relevant experience OR Ph.D. in Electronics and Instrumentation Engineering or Electronics and communication.	
04	Level -11	Scientist 01 Post (SC-1) 32 years	M.E./M.Tech in Electrical Engineering OR Ph.D (submitted) in Electrical Engineering.	Measurement and instrumentation of strain, acceleration, displacement etc./ Network hardware & software/Computational methods/Control systems/Sensor and transducers/Wireless sensor networks.
	Level -12	Sr. Scientist 01 Post (SC-1) 37 years	M.E./M.Tech in Electrical Engineering with three years relevant experience OR Ph.D in Electrical Engineering.	
05	Level -11	Scientist 01 Post (OBC-1) 32 years	Ph. D. (Submitted) in Physics in the area of building physics/heat, thermodynamics/Solar energy/Nano materials.	Working Knowledge in the areas of Physics of buildings/ Heat flow through buildings/ Acoustics/Lighting/ Advanced sensor Technology/ HVAC of buildings/Nano scale physics/Solar energy.
	Level -12	Sr. Scientist 01 Post (OBC-1) 37 years	Ph. D. in Physics in the area of building physics/heat, thermodynamics/Solar energy/Nano-materials with two years experience in the relevant field.	
06	Level -11	Scientist 01 Post (OBC-1) 32 years	Ph. D. (Submitted) in Chemistry in the areas of Cement chemistry/ Advanced building materials/ Polymeric composite materials/ Fire retardant or resistant materials/ Solid waste utilization	Working knowledge in the area of Advanced instrumentation for characterization of building materials, Nano-materials, polymer chemistry, fire retardant resistance material/solid waste utilization/solar energy.
	Level -12	Sr. Scientist 01 Post (OBC-1) 37 years	Ph. D. in Chemistry in the areas of Cement Chemistry/ Advanced Building Materials/ Polymeric composite materials/ Fire retardant or resistant materials/ Solid waste utilization with two years experience in the relevant field.	
07	Level -11	Scientist 02 Posts (SC-1 & OBC-1) 32 years	M.Arch in Architecture/Planning with Bachelors in Architecture (B.Arch.).	Working Knowledge in Green Building System/Energy efficient buildings/ Heritage structures/Building physics/HVAC Systems/Acoustics and lighting of buildings.
	Level -12	Sr. Scientist 02 Posts (SC-1 & OBC-1) 37 years	M. Arch. in Architecture/ Planning with three years relevant experience and having Bachelors degree in Architecture (B.Arch.). OR Ph.D. in Architecture/Planning having Bachelors degree in Architecture only.	

Senior Scientist / Principal Scientist (Lateral level) - Total 02 posts :-

08	Level - 12	Senior Scientist 01 Post (Lateral level) 37 years	Ph. D. in Physics with two years relevant experience.	Advanced materials science, geo-polymeric materials, characterization technique for special building materials/Ceramic & polymeric structures/ Micro & nano structure studies/ CNT & graphene. Holding of Patents and IP will be favourably considered.	Selected candidates will have to undertake research, development and innovative product development activities in the areas of the Institute. Placement of the candidates in different functional groups will be done as per the requirement of the Institute keeping in mind the knowledge and experience of the selected candidates. In addition to the R&D activities, consultancy/sponsored/grant-in-aid projects are also to be handled either independently or in a team. Selected candidates as per the requirements may have to take classes in the laboratory unit of the Academy of Scientific & Innovative Research (AcSIR) which is offering the Masters/Ph.D Degrees. Selected candidates will also have the opportunity to supervise Research Scholars of the Academy (AcSIR) leading to their Ph.D. Degree as per the norms of the Academy.
09	Level - 12	Senior Scientist 01 Post (Lateral level) 37 years	Ph. D. in Physical Chemistry with two years relevant experience.	Advanced analytical and experimental methods in physical chemistry/ Development of innovative instrumentation for chemical analysis/chemistry of construction materials. Holding of Patents and IP will be favourably considered.	Selected candidates will have to undertake research, development and innovative product development activities in the areas of the Institute. Placement of the candidates in different functional groups will be done as per the requirement of the Institute keeping in mind the knowledge and experience of the selected candidates. In addition to the R&D activities, consultancy/sponsored/grant-in-aid projects are also to be handled either independently or in a team. Selected candidates as per the requirements may have to take classes in the laboratory unit of the Academy of Scientific & Innovative Research (AcSIR) which is offering the Masters/Ph.D Degrees. Selected candidates will also have the opportunity to supervise Research Scholars of the Academy (AcSIR) leading to their Ph.D. Degree as per the norms of the Academy.

NOTE:- Out of 17 posts, two post are reserved for Persons With Disability (PWD) for either Orthopedically Handicapped /Locomotor Disability / Cerebral Palsy/ one leg affected-Right or Left OR Hearing Impaired (partially Deaf) candidates based on suitability of the candidates. All the posts are suitable for PWD with above mentioned disabilities.

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. In addition to the emolument indicated above, 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.
- c. 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. Opportunities also arise for foreign deputations for training/presentation of papers/specific assignments etc.
- d. CSIR provides excellent opportunities to deserving candidates for career advancement under Assessment Promotion scheme for Scientists.
- e. Deserving candidates may be considered for advance increment as per CSIR Rules.

2. Other conditions

- a. The applicant must be a citizen of India.
- b. All applicants must fulfill the essential requirements of the post and conditions stipulated in the advertisement as on the last date of receipt of the applications. They are advised to satisfy themselves before applying that they possess at least the essential qualifications laid down for various post as on the last date of receipt of the applications. No enquiry asking for advice on eligibility will be entertained.
- c. 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. Selection will be made strictly according to Merit. 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 document. 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 educational qualifications, experience etc.
- e. The prescribed qualifications should have been obtained through recognized Universities/Institutions, etc. Incomplete applications/applications not accompanied with the required certificates/documents and applications received after closing date of the advertisement are liable to be rejected.
- f. 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.
- 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, qualification and or experience shall be the closing date prescribed for receipt of applications.
- i. 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.
- j. Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply. Out of 17 posts, two posts are reserved for Persons with Disability for either Orthopedically Handicapped/ Locomotor Disability/ Cerebral Palsy/ one leg affected -Right or Left Or Hearing Impaired (partially Deaf) candidates based on suitability of the candidates. All the posts are suitable for PWD with above mentioned disability.
- k. In case a candidate is staying abroad, his/her candidature may be considered *in absentia* by the Selection Committee on his/her written request.
- l. Only outstation in India 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 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 travel fare etc.
- n. The decision of the Director, CSIR-Central Building Research Institute, Roorkee 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.
- 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 the candidates belonging to SC/ST community and 03 years for the candidates belonging to OBC community as per Government orders in force only in those cases where the posts are reserved for these respective categories, on production of relevant certificate in the prescribed format signed by the specified authority at the time of interview.
- b. Candidates belonging to Other Backward Classes (OBC) must submit the self-attested photocopy of the current year's certificate in the Central Govt. prescribed format issued by the specified competent authority (SDO/D.M./Dy. Commissioner) alongwith the application form categorically stating that he/she does not belong to creamy layer. The certificate issued by Gazetted Officers should be countersigned by the D.M./Dy. Commissioner.
- c. Upper age limit is also relaxable upto five years for the regular employees working in CSIR Laboratories/ Institutes, Government Department, Autonomous Bodies and Public Sector Undertakings.
- d. As per GOI provisions, for Widows, Divorced Women and Women judicially separated from their Husbands; who are not remarried, the upper age limit is relaxable up to the age of 35 years (up to 40years for members of Scheduled Castes/Scheduled Tribes and up to 38 years for members belonging to other Backward classes in respect of the post 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 then.
 - 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.
- e. Age relaxation to Physically Handicapped (PH) persons: Age relaxation of 5 years is allowed (total 10 years for SC/STs and 8 years for OBCs in respect of the post 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 the 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" post to be filled by Direct Recruitment by Selection.
- 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. (i) Eligible candidates are required to apply **Online**. No other mode of application will be accepted.
 - (ii) **Online application form** will be available on our website www.cbri.res.in upto 03.10.2017. URL for Online application is <http://recruitment.cbri.res.in> OR <http://cbri.res.in/notifications/recruitments>.
 - (iii) Candidate has to remit application fee of Rs.500/-(Rs. Five hundred only) (wherever applicable) **Online. Link for Online payment of application fee is given in Application form.**

- (iv) Candidates belonging to SC/ST/PH/Women/CSIR Employees/Abroad Candidates category are exempted from submission of application fee.
- b. Candidate should keep a copy of the application print out for their record.
- c. Application duly signed and e-receipt of application fee slip along with recent passport size photograph, attested copies of all testimonials/certificates/marks sheets in support of qualification, experience, date of birth etc. should be sent in a sealed cover super scribed "Application for the post of SCIENTIST/ Sr. SCIENTIST (Post Code No.____) to the **Administrative Officer, Central Building Research Institute, Roorkee-247667 within a period of 07 days from the closing date of the Advertisement ie. 03.10.2017.**
- d. Applications from employees of Government Department 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. Application routed through proper channel should reach Director, CSIR-CENTRAL BUILDING RESEARCH INSTITUTE (INDIA)" within a period of 15 days from the closing date of the Advertisement.
- e. In case of Universities/Institute awarding CGPA/SGPA/OGPA grades etc. candidates are required to convert the same into percentage based on the formula as per their university/Institute
- f. Candidates applying for more than one post must submit separate Application Form for each post indicating the Code No. of the Post. The hard copy (s) of each application must be accompanied by separate Demand Draft on account of application fee.
- g. Application once made will not be allowed to be withdrawn and application fee once paid will not be refunded on any count nor can it be held in reserve for any other recruitment or selection process.
- h. Candidates should specifically note that the Hard copy of applications received after the closing date for any reason whatsoever (such as envelopes wrongly addressed, delivered elsewhere, postal delay etc.) will not be entertained under any circumstances.
- i. Incomplete applications (i.e. unsigned, without photograph, application fee, applicable testimonials etc.) will not be entertained and will be summarily rejected.
- j. Applications submitted in a format other than the prescribed format will be rejected.

Check list : Attested copies of following documents must be attached with the application form :

1. High School/Secondary School Certificate showing Date of Birth.
2. Diploma/Degree certificate and mark sheet (Year/semester wise) in support of essential qualification and any higher qualification.
3. E-receipt of online Application fee of Rs.500/-.
4. Self attested copy of Experience Certificate.
5. Certificate of OBC (current year's)/SC/ST/PH, if applicable.
6. NOC (from Govt./Autonomous Body/Public Sector employees), if employed).

ADMINISTRATIVE OFFICER