



CSIR-CENTRAL BUILDING RESEARCH INSTITUTE

(Council of Scientific & Industrial Research)

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



ADVERTISEMENT NO. CSIR-CBRI- 05/2021

Last Date of application : 20.12.2021.

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 08 Nos. (UR-04, SC-02, OBC-02)	7 th CPC - Level-11 Rs.67700/- plus usual allowances	Rs.67700/- + D.A. + HRA (as admissible)	32 years
Principal Scientist	Total 04 Nos. (UR).	7 th CPC - Level-13 Rs. 123100/- plus usual allowances	Rs.123100/- + D.A. + HRA (as admissible)	45 years

UR: Unreserved; SC: Scheduled Caste; OBC: Other Backward Class

Scientist - Total 08 posts :-

Post code	Pay matrix Level	Names and No. of Posts/ reservation & Age limit not exceeding	Essential Educational qualifications & experience	Desirable Experience	Job specification
4201	Level-11	Scientist 01 Post (SC-1) 37 years	Ph.D. (submitted) in Biological Sciences/Sciences or equivalent with specialization in the areas of Pest & Mycology, Entomology for Building Sciences with Masters degree or equivalent in Biological Sciences.	<ul style="list-style-type: none">Working Knowledge in some of the areas Pest & Mycology, Entomology for Building Sciences.Good publication in SCI journals	Selected candidates will have to undertake research, development and innovative research for product development/technology innovation/applied technology/translational

4202	Level-11	Scientist 02 Posts (UR-2) 32 years	Ph.D. (submitted) in Geology/Applied Geology/Geosciences/Earth Sciences/ Physical Sciences/Sciences or equivalent in the areas of Engineering Geology/Landslide Disaster related studies with Master's degree or equivalent in Geology/Applied Geology/Geological Technology	<ul style="list-style-type: none"> • Working Knowledge in some of the areas like landslides/other mass-movements, engineering geological investigations, remote sensing & GIS applications, field experience in Indian Himalayas. • Good publications in SCI journals 	<p>research activities in the thrust 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.</p>
4203	Level-11	Scientist 01 Posts (UR-1) 32 years	M.E./M.Tech or equivalent in Civil Engineering with specialization in Structural 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. (submitted) in any of above areas with B.E./B.Tech. in Civil Engineering.	<ul style="list-style-type: none"> • Working Knowledge in some of the areas like Structural Fire Engineering, Disaster Resistant Structural system, Prefabricated Building system, 3D printing techniques, Composite Structural System, Heritage Structures. • Good publication in SCI journals 	
4204	Level-11	Scientist 01 Post (OBC-1), 35 years	M.Arch. or equivalent in Architecture with Bachelors Degree or equivalent in Architecture. OR Ph.D.(submitted) in Architecture or equivalent having Bachelors degree or equivalent in Architecture only.	<ul style="list-style-type: none"> • Working Knowledge in Green Building System/Energy efficient buildings/ Heritage structures/Building physics/sustainable architecture /Acoustics and lighting of buildings/Futuristic cities and villages/Net zero emission building/BIMN. • Good publication in SCI journals 	
4205	Level-11	Scientist 01 Post (SC-1) 37 years	M.Arch. or equivalent in Architecture with Bachelors Degree or equivalent in Architecture. OR Ph.D.(submitted) in Architecture or equivalent having Bachelors degree or equivalent in Architecture only.	<ul style="list-style-type: none"> • Working Knowledge in Green Building System/Energy efficient buildings/ Heritage structures/Building physics/sustainable architecture /Acoustics and lighting of buildings/Futuristic cities and villages/Net zero emission building/BIM. • Good publication in SCI journals 	
4206	Level-11	Scientist 01 Post (UR-1) 32 years	M.E./M.Tech or equivalent in Machine Design/ Mechatronics/ Robotics/CAD/Thermal Engg. with bachelors degree or equivalent in Mechanical Engineering OR Ph.D. (submitted) in any of the above areas with bachelors degree or equivalent in Mechanical Engineering.	<ul style="list-style-type: none"> • Working knowledge in Kinematics of machinery/ Engineering design/FEM software/ Construction automation and instrumentation/ Robotics/Heat and mass transfer/ 3D Printing. • Good publications in SCI journals 	

4207	Level-11	Scientist 01 Post (OBC-1) 35 years	M.E./M.Tech or equivalent in Machine Design/ Mechatronics/ Robotics/CAD/Thermal Engg. with bachelors degree or equivalent in Mechanical Engineering OR Ph.D. (submitted) in any of the above areas with bachelors degree or equivalent in Mechanical Engineering.	<ul style="list-style-type: none"> Working knowledge in Kinematics of machinery/ Engineering design/FEM software/ Construction automation and instrumentation/ Robotics/Heat and mass transfer/ 3D Printing. Good publications in SCI journals 	
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Principal Scientist (Lateral level) - Total 04 posts :-

Post code	Pay Matrix Level	Names and No. of Posts/ reservation & Age limit not exceeding	Essential Educational qualifications & experience	Desirable Experience	Job specification
4401	Level-13	Principal Scientist 01 Post (Lateral Level) (UR) 45 years	Ph.D. or equivalent in Physics with 3 years experience in the relevant areas of Building Physics/Energy Efficient Buildings/Indoor Environmental Quality/IEQ Controls/ Instrumentation electronics/sensors & actuators. Candidate must have Masters degree or equivalent in Physics.	<ul style="list-style-type: none"> Working Knowledge in some of the areas like Building Physics/Energy Efficient Buildings/Indoor Environmental Quality/IEQ Controls/Instrumentation electronics/sensors & actuators Good publications in SCI journals Product development/ Technology transfer 	Selected candidates will have to undertake research, development and innovative research for product development/technology innovation/applied technology/translational research activities in the thrust 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.
4402	Level-13	Principal Scientist 01 Post (Lateral Level) (UR) 45 years	Ph.D. or equivalent in Chemical Engineering with 3 years experience in the relevant areas of Combustion Processes/Fire Dynamics/Passive & Active Fire Protection. Candidate must have Masters degree or equivalent in Chemical Engineering.	<ul style="list-style-type: none"> Working Knowledge in some of the areas like Structural Fire Engineering, Disaster Resistant Structural system, Combustion Processes/Fire Dynamics/Passive & Active Fire Protection. Good publication in SCI journals Product development/ Technology transfer 	
4403	Level-13	Principal Scientist 01 Post (Lateral Level) (UR) 45 years	Ph.D. or equivalent in Civil Engineering/Structural engineering with 3 years experience in the relevant areas of Structural Fire Engineering/Retrofit & Rehabilitation of Fire Damaged Structures. Candidate must have Masters degree or equivalent in Civil Engineering/Structural Engineering.	<ul style="list-style-type: none"> Working Knowledge in some of the areas like Structural Fire Engineering, Disaster Resistant Structural system, Retrofit & Rehabilitation of Fire Damaged Structures. Good publication in SCI journals Product development/ Technology transfer 	
4404	Level-13	Principal Scientist 01 Post (Lateral Level) (UR-1) 45 years	Ph.D. or equivalent in Civil Engineering with 3 years experience in the relevant areas of Building Materials including Concrete, Admixtures and Cementitious Materials. Candidate must have Masters degree or equivalent in Civil Engineering	<ul style="list-style-type: none"> Working Knowledge in some of the areas like Building Materials including Concrete, Admixtures and Cementitious Materials. Good publication in SCI journals Product development/ Technology transfer 	

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 08 posts, one post is reserved for Persons with Disability for either Orthopedically Handicapped/ Locomotor Disability/ Cerebral Palsy/ one leg affected -Right or Left 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.
- 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 Departments, 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 Persons with disabilities (PwD): 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, Locomotor Disability/ Cerebral Palsy/ one leg affected -Right or Left 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.

4. **How to apply:**

- a. (i) **Application format and summery sheet** will be available on our website www.cbri.res.in upto **20.12.2021**. No other format of application will be accepted.
- (ii) Eligible candidates are required to take a printout of **application format and summery sheet**. Fill it and **send duly filled application form and summery sheet alongwith all the attachments in a single pdf file at the following e.mail IDs given to each Post Code :-**

Sl. No.	Post Code	E.mail ID
1	4201	sc4201@cbri.res.in
2	4202	sc4202@cbri.res.in
3	4203	sc4203@cbri.res.in
4	4204	sc4204@cbri.res.in
5	4205	sc4205@cbri.res.in
6	4206	sc4206@cbri.res.in
7	4207	sc4207@cbri.res.in
8	4401	psc4401@cbri.res.in
9	4402	psc4402@cbri.res.in
10	4403	psc4403@cbri.res.in
11	4404	psc4404@cbri.res.in

(iii) Candidate has to remit application fee of Rs.100/- (Rs. One hundred only) (wherever applicable) **online through SBI Collect Facility. Link for Online payment of application fee is given** on our website : www.cbri.res.in.

(iv) **Candidates belonging to SC/ST/PwD/Women/CSIR Employees/Abroad Candidates are exempted from submission of application fee.**

b. Candidate should keep a copy of the duly filled application for their record.

c. Hard copy of Application form duly signed and e-receipt of application fee slip along with recent passport size photograph, Self-attested copies of all testimonials/Certificates/marks sheets/Degree in support of qualification, experience, date of birth and Caste etc. should be placed in a sealed cover super scribed "Application for the post of SCIENTIST /PRINCIPAL SCIENTIST (Post Code No. __) and send the same to **Sr. Controller of Administration, CSIR-Central Building Research Institute, Roorkee-247667. Form should reach at the given address within a period of 10 days from the closing date of the Advertisement ie. on or before 30.12.2021.**

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 to **Sr. Controller of Administration, CSIR-Central Building Research Institute, Roorkee-247667** within a period of 20 days from the closing date of the Advertisement **ie. on or before 09.01.2022.**

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 with separate application fee for each post (Scientist/Principal Scientist) indicating the Post Code and Name of the Post. The hard copy (s) of each application must be accompanied by separate e-receipt of application fee slip 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 and summery sheet 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. Self attested copy of High School/Secondary School Certificate showing Date of Birth.
2. Self attested copies of 10th/12th/Degree Certificates and marks sheets (Year/semester wise) in support of essential qualifications, any higher qualifications and publication (first page)/ patents/ product & Technology development or transfer.
3. E-receipt of online Application fee of Rs.100/-.
4. Self attested copy of Experience Certificates.
5. Certificate of OBC (current year's)/SC/ST/PwD, if applicable.
6. NOC (from Govt./Autonomous Body/Public Sector employees), if employed).
7. Summery Sheet.

Sr. CONTROLLER OF ADMINISTRATION

Kindly scan QR code as given below:



