



CSIR-Central Drug Research Institute, Lucknow
Council of Scientific and Industrial Research
Sector 10, Jankipuram Extension, Sitapur Road,
Lucknow – 226 031, Uttar Pradesh, India



SCIENTIST RECRUITMENT-2020

Advertisement No 10/2020

URL for Online Application: <https://recruit.cdri.res.in>

OR

Access link 'SCIENTIST RECRUITMENT-2020' on <https://cdri.res.in>

Start Date for Registration for Online Application:

Saturday, 5 December, 2020, 10:00 Hrs IST

Last Date for Registration & Submission of Online application:

Friday, 15 January, 2021, 23:59 Hrs IST

Last date of Receipt of physical copy of application at CDRI:

Monday, 1 February, 2021, 17:30 Hrs IST

A unique opportunity for research career in Science & Technology in the area of Drugs, Pharmaceuticals and Biomedical Research

CSIR-Central Drug Research Institute, Lucknow, a premier Institute under Council of Scientific and Industrial Research (CSIR), is involved in multidisciplinary R&D programs of both basic and applied nature. CSIR-CDRI is a pioneer biomedical research organization in India and has the infrastructure and expertise to develop a drug from concept to commercialization. In the year 2012, CSIR-CDRI shifted to its state of the art new campus, which has been set up with a vision to serve as a Nodal Center of CSIR in new drug discovery and development. Spread across ~61 acres, it houses an R&D Complex, Support Services, Guest House, Hostel and Staff Quarters. Please visit <http://www.cdri.res.in> for further information.

With the aim to expand and strengthen the areas of Neurobiology, Virology, Parasite Biology, Endocrinology, Human Genetics, Analytical Biochemistry, Computational Chemistry, Medicinal Process Chemistry, Statistics, IPR & HR Management, the Institute is looking for enthusiastic, talented young researchers / professionals with brilliant academic record, proven scientific achievements and zeal to conduct research as per the mandate of the Institute aligned with National Missions. Due weightage will be given to the candidates involved in the product development/ technology innovation/applied technology / translation research. The positions offer exciting opportunities for career growth as per the Flexible Complementing Scheme for Scientists.

Applications are invited from motivated young Indian Nationals with requisite qualification and experience for the following posts as per the details given below. The emoluments and age limit for various posts as per norms is summarized as below: -

Designation	No. of Posts	Pay Level	Basic	*Total Emoluments	**Upper Age Limit not exceeding (as on 15/01/2021)
Scientist	06 [UR-3; SC-1; OBC-1; EWS-1] & 02 PwD (OH/HH/VH) Backlog Posts	11	Rs. 67700/-	Rs. 94,720/-	32 years
Senior Scientist	08 UR/Lateral Entry	12	Rs.78800/-	Rs. 1,08,928/-	37 years
Principal Scientist	01 UR/Lateral Entry	13	Rs.123100/-	Rs. 1,59,744/-	45 years

UR: Unreserved; SC: Scheduled Caste; OBC: Other Backward Class; EWS: Economically Weaker Section;

*** Approximate total emoluments on minimum of scale including House Rent Allowance in Lucknow City.**

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



Post code	Area	Post Designation	No of Posts & Reservation	Age Limit & Emoluments	Essential Educational Qualifications & Experience	Desirable Experience &	Job Specification [#]
001	Neurobiology	Scientist	1 UR	Age limit: 32 Pay Matrix Level-11 Rs.67700/-	MVSc / MD or equivalent in pharmacology or medicine or pediatrics or neurology OR PhD in areas related to neurobiology (thesis submitted)	Experience in whole cell patch clamp on isolated cells and brain slices, hERG ion channel recording on isolated cells/ electrophysiology, neurobehaviour, experience in neurodegenerative disorders	Regulatory Patch clamp studies for hERG liability, establish and support the neurophysiological parameters for cognitive impairment and emotional deficit disorders
002	Virology	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	MD/MVSc with 3 years' research experience in virology OR PhD in any area of life sciences with 2 years' research experience in virology OR MBBS +PhD in areas related to viral infection	Experience in the area of human pathogenic viruses, addressing infection mechanisms, host-virus interaction, diagnostics and antiviral therapeutics.	Set-up a virology research laboratory with BSL2 containment on viral diseases of national priority. Develop independent research program.
003	Host-pathogen interactions	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	MD/MVSc) with 3 years' research' experience in Virology or Pathology or Immunology or Microbiology OR PhD in any area of life sciences with 2 years' research experience in infectious disease biology. OR MBBS +PhD in an area of life sciences	Experience and contribution towards understanding host immune evasion and regulation of host cellular processes by pathogens (parasites—malaria and other apicomplexans or leishmania/ microbes), experience with pathogen culture and animal infection models, interest in approaches for host-directed therapy.	To establish a robust research program in the area of host-pathogen interface, contribute to evaluation of in vivo efficacy of hit/lead compounds.
004		Scientist	1 SC 1 PWD-OH/HH/VH	Age limit: 32 Pay Matrix Level-11 Rs.67700/-	MVSc virology or microbiology / MD microbiology or immunology OR PhD in an area of life sciences (thesis submitted)	Experience and contribution towards understanding host immune evasion and regulation of host cellular processes by pathogens (parasites—malaria and other apicomplexans or leishmania/ microbes), experience with pathogen culture and animal infection models, interest in approaches for host-directed therapy.	To establish a robust research program in the area of host-pathogen interface, contribute to evaluation of in vivo efficacy of hit/lead compounds.
005	Human genetics	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	MD with 3 years' research experience in clinical genetics or physiology or medicine	Experience in the analysis of chromosomal anomalies - genetic or chemical/drug induced, genome analysis,	Design & conduct experiments on genome analysis, transcriptomics,

					OR PhD in an area of life sciences with 2 years' of research experience in the area of human genetics	transcriptomics, proteomics and FISH with an ability to analyze drug effects and toxicity	proteomics and FISH to analyze drug effects and toxicity
006	Endocrinology	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	MD/MVSc with 3 years research experience in endocrinology. OR PhD in an area of life sciences with 2 years' research experience in endocrinology OR MBBS + PhD in endocrinology	Experience in the following area: a) organization of growth plate and regulation of chondrocyte differentiation, b) patterning and morphogenesis of bones and joints and c) joint tissue remodelling pathways leading to tissue damage, and identification of new therapeutic targets.	To undertake research in the areas of bone and joint physiology and pathophysiology leading to the discovery of therapeutic targets.
007	Analytical Biochemistry	Principal Scientist	1 UR	Age limit: 45 Pay Matrix Level-13 Rs.123100/-	MD/MVSc with 5 years' research experience in biochemistry OR PhD in an area of natural sciences with 3 years' research experience in biochemistry OR MBBS + PhD in an area of natural sciences with 3 years research experience in clinical biochemistry	Experience in developing diverse methods of bioactive enzyme/protein expression, isolation, characterization, enzyme kinetics, receptor-ligand (small molecule and peptide) interactions; in particular membrane receptor-ligand interactions, biochemical assay development. Expertise in Surface Plasmon Resonance and isothermal calorimetry.	Conduct an independent research program in biochemical aspects of infectious or lifestyle diseases; contribute to development of biochemical assays for discovery and development of novel therapeutics.
008	Computational Chemistry	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	PhD in an area of chemical sciences/ chemical biology/ computational biology, with 2 years' research experience in computational chemistry.	Demonstrated skills in the application of computer-assisted drug design using standard modeling and computational software packages; scientific programming experience including machine learning approaches to address drug discovery problems; Advanced knowledge of computational chemistry principles and knowledge of how to apply these to pharmaceutical research projects; Exposure to other disciplines of relevance to drug discovery, such as synthetic organic chemistry, biology, pharmacology, toxicology, biochemistry, or physical chemistry. Experience with programming and/or scripting languages and/or chemically aware databases and have relevant experience of the computational application	Support of drug discovery projects by developing and delivering timely, high-quality computational solutions and impacting project teams through understanding target-ligand binding, structure based and ligand-based lead optimization, virtual screening, library design and ADME in-silico modeling. Participate in interdisciplinary project teams and play a key role in compound design. Apply molecular modeling, conformational analysis, homology modeling and pharmacophore hypothesis generation

						of molecular quantum chemical techniques, especially density functional theory.	to compound design. Develop hypotheses to understanding drug binding and SAR by application of molecular dynamics. Compound library design and the application of virtual screening to identifying new lead material. Develop ML/AI models as required to support team initiatives.
009	Medicinal Chemistry	Scientist	1 EWS	Age limit: 32 Pay Matrix Level-11 Rs.67700/-	PhD in any area of chemical sciences (thesis submitted)	Demonstrated comprehensive and state of the art knowledge in modern synthetic methodologies as well as a basic understanding of molecular properties of chemical compounds. Motivated effort towards designing chemical compounds for biologically activity against diseases, prioritize target compounds and plan and execute their synthesis. Analyze the data sets to generate structure-activity relationships within the chemical library. Working knowledge of separation and spectroscopic techniques. A record of publications and patents demonstrating proficiency in synthetic chemistry leading to drug discovery in Chemistry/ Pharmacology journal	Design and synthesize novel chemical compounds to optimize potency, selectivity, pharmacokinetics, and in vivo efficacy. Interface with the biological and pharmacological collaborators in the testing and development of interesting compounds. Gain knowledge and expertise in use of state-of-the-art in silico modeling tools for hypothesis driven design of novel compounds and exploration of structure-activity relationships.
010	Process Development Chemistry	Scientist	1 UR	Age limit: 32 Pay Matrix Level-11 Rs.67700/-	ME / MTech. in chemical engineering OR BE/BTech in chemical engineering with Advanced Diploma from AcSIR with distinction OR PhD in chemical sciences (synthetic organic/bioorganic/ medicinal /pharmaceutical chemistry) (thesis submitted)	Industrial experience in process chemistry /pilot plant in the area of drug/pharmaceutical agents would be an added advantage;	To develop synthetic routes that are efficient, safe, cost-effective, environmentally friendly, and industrially viable for biologically active leads, drug intermediates or drug candidates

011	Pharmaceutical & Biomedical analysis	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	Ph.D. in related areas of pharmaceuticals with 2 years' research experience in pharmaceutical and biomedical analysis.	Ph.D. thesis incorporating development and validation of bioanalysis by HPLC or LC-MS or LC-MS/MS; experience in the pharmaceutical industry/CRO in development and validation of HPLC and LC-MS/MS analytical and bioanalytical methods for pharmacokinetics, metabolite identification and biodistribution; OR Post-doctoral research experience, published work of high quality in respect of pharmaceutical and biomedical analysis; experience in animal handling, experience in regulatory filing for investigational new drugs or generic drug products; OR Approved Chemist (by State Licensing Authority/CDSCO).	Develop and validate analytical methods for API, formulations, blood plasma/serum and tissue samples as per drug regulatory requirements, design and conduct of clinical and preclinical studies on pharmacokinetics in rodents and non-human primates, pharmacokinetic modeling, metabolite identification, preparation of regulatory submissions for CDSCO, US FDA, EMA, MHRA, ANVISA, Rosdravnazor, etc.
012	Statistics	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	PhD (Biostatistics or Statistics) with 2 years' research experience in statistical application to biological/clinical sciences.	Experience of statistical application to biological/clinical sciences, analysis of genome variation and epidemiology data.	Analysis of research and pre-clinical/clinical data as per regulatory requirements
013	Analytical Chemistry (Mass Spectrometry)	Senior Scientist	1 UR	Age limit: 37 Pay Matrix Level-12 Rs.78800/-	PhD in any area of natural sciences with 2 year research experience in use of Mass Spectrometry instruments	Experience in the field of Mass Spectrometry. Expertise with a few of the following techniques: Triple quadrupole MS/MS, Q- TOF-MS/MS, Orbitrap MS ⁿ and MALDI TOF/TOF. Management, maintenance and application of sophisticated Mass instruments coupled with HPLC or UPLC. Working experience on protein characterization and/or the development and validation of analytical methods using the LC-MS/MS instruments in complex matrices.	Develop an independent research program; conduct analysis of samples using mass spectrometry for identification, characterization and quantitation of small molecules and large biomolecules as per ICH, NABL and GLP guidelines.
014	IPR Management & Business Development	Scientist	1 UR	Age limit: 32 Pay Matrix Level-11 Rs.67700/-	B-Tech in biotechnology or chemical technology/-MSc with PG degree in Intellectual Property Law (1st class or 60% on an aggregate or equivalent GPA); OR	PG diploma in patent law/IP laws/IPRs/ Business management OR Registered Patent Agent	Act as an interface between scientists and industry/government agencies/R & D institutes/international agencies etc. and undertake liaison activities for

					PhD in Pharmaceutical sciences/ Life sciences/ Chemical Sciences (thesis submitted)	OR MBA in pharmaceutical management/ technology management. Understanding of scientific documentation with 2 year experience in IPR management, technology transfer, technology marketing, negotiations with excellent communication and writing skills.	promotion of research & business development/ translational research and institutional programs.
015	HR Management	Scientist	1 OBC 1 PWD-OH/HH/VH	Age limit: 32 Pay Matrix Level-11 Rs.67700/-	PhD in any area of natural/ pharmaceutical Sciences (thesis submitted)	MBA / Post-graduate degree in HR management or Public Relations / Mass communications with aptitude for original science writing for mass media. Proficiency in organization, writing and communication skills.	Coordinate trainings, skill development programs & societal activities; Plan and execute science outreach; Manage technical information, social media, public relations and mass communication, institutional publications and publicity material.
	Total		17				

& As evidenced from high quality publications and/or patents

All scientists participate in teaching in the institute's pre-PhD course.

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 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 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 may also be permitted to undertake consultancy and sponsored R&D project activity as per CSIR rules. These activities give them scope to earn consultancy fee and honorarium as per CSIR guidelines governing these activities. Opportunities also exists 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 other conditions stipulated in the advertisement as on the last date of submission of online application i.e 15 January, 2021. 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 submission of online application i.e. 15 January, 2021
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 to be submitted with the hard copy (print-out) of the application. Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/notification.
- c. The hard copy (print-out) of the application for each post, generated after filling Online application form, should be accompanied by self-attested copies of the relevant educational qualification, experience. Candidate should submit hard copy in separate envelope with post-code. The prescribed qualifications should have been obtained through recognized Universities / Institutions etc. Incomplete applications/applications received without the required certificates / documents are liable to be rejected.
- d. In respect of equivalent clause in Essential Qualifications, if a candidate is claiming a particular qualification as equivalent qualification as per the requirement of advertisement, then the candidate is required to produce order/letter in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise the Application is liable to be rejected.
- e. The period of experience rendered by a candidate on part time basis, daily wages, visiting / guest faculty will not be counted while calculating the valid experience for short listing the candidates for interview.
- f. 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.
- g. The date for determining the upper age limit, qualifications and /or experience shall be the closing date prescribed for submission of online application i.e. 15 January, 2021.
- h. 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. Experience certificate must be issued from competent administrative authority of the concerned organization.
- i. Persons with Disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.
- j. In case a candidate is staying abroad, his/her candidature may be considered *in absentia* by the Selection Committee on his/her written request.
- k. Only outstation candidates called for interview will be paid to- and fro- single second class rail fare from the actual place of undertaking the journey or from the present address in application form whichever is nearer to Lucknow Railway Station on production of proof of journey for the journey performed within India. Candidates who are already in the service of the Central/State Govt., a Central/State Govt. Corporation, Public Sector undertaking, local Govt. Institution or Panchayat called for Interview will not get T.A.

- l. 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.
- m. The decision of the CDRI/CSIR 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.
- n. Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post.
- o. NO INTERIM ENQUIRY OR CORRESPONDANCE WILL BE ENTERTAINED. The **Helpdesk** contacts mentioned on the website for Online application is for resolution of operational issues related to Online submission of application form only.

3. **Relaxations:**

- a. The upper age limit is relaxable upto 05 years for SC/ST and 03 years for OBC as per Government orders in force only in those cases where the post is 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. This relaxation is admissible to such of the government servants as are working in posts which are in the same line or allied cadres and where a relationship could be established that the service already rendered in a particular post will be useful for the efficient discharge of the duties of the posts, recruitment to which has been advertised.
- c. As per Gol provisions, age relaxation will be given for eligible applicants. Widows, Divorced Women and Women Judicially separated from Husbands, the upper age limit is relaxable up to the age of 35 years (upto 40 years for members of Scheduled Castes/Scheduled tribes in respect of the posts reserved for them) for Widows, divorced Women and Women judicially separated from their 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 judgement/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 Persons with Disabilities (PWD): 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). 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.
- e. Relaxation in age, over and above the stipulated limit, educational qualification and / or experience may be considered in case of exceptionally meritorious candidates or if sufficient number of candidates possessing the requisite qualification and / or experience are not available to fill up the posts.

4. **How to apply:**

- a. Eligible candidates are required to fill the application form ONLINE by accessing the website <https://recruit.cdri.res.in> or accessing the link 'SCIENTIST RECRUITMENT-2020' available on CDRI website <https://recruit.cdri.res.in>. The printout of the application, generated after Online submission is to be sent to CDRI with all the relevant enclosures before 15 January, 2021, 23.59 Hrs. IST.
- b. For online application process please refer '**How-to-apply Online**' instructions, '**Fee Payment Procedure**' and '**Application Replica**' available on the above-mentioned website.
- c. The application is to be submitted in four distinct steps, as below:
 1. Registration (online)
 2. Fee Submission (online)
 3. Application Submission (online)
 4. Dispatch of physical copy of online application with original signature (manual)
- d. The datelines for the above-mentioned stages of application is as follows:

Start Date for Registration for Online Application:	Saturday, 5 December, 2020, 10:00 Hrs IST
Last Date for Registration & Submission of Online application:	Friday, 15 January, 2021, 23:59 Hrs IST
Last date of Receipt of physical copy of application at CDRI:	Monday, 1 February, 2021, 17:30 Hrs IST

- e. Candidates are required to pay application fee of Rs. 100/- as per '**Fee payment procedure**' available on the website. The candidates belonging to SC/ST/PWD/Women/Other Gender/CSIR Employees are exempted from submission of application fee.
 - f. 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 guidelines.
 - g. The print-out of the application, generated after online submission, duly accompanied by self-attested copies of the requisite certificates, mark sheets, age proof, education qualifications, experience, **re-prints of 1st page of publications** and caste certificate, if applicable, along with one recent colored passport size self-signed photograph affixed should be sent in an envelope super-scribed "APPLICATION FOR THE POST OF _____ (Post Code _____)" by post to "**The Director, CSIR-Central Drug Research Institute, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow – 226031, Uttar Pradesh, India**". Candidates applying for more than one post must submit each application in separate envelope for each post indicating the Code No. of the post.
 - h. 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.
 - i. 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 submitted. However, advance copy of the application may be submitted before Monday, 1 February, 2021, 17:30 Hrs IST. Applications routed through proper channel should reach CSIR-CDRI before date of outcome.
 - j. 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-CDRI.
 - k. Incomplete applications (i.e. without photograph, unsigned and applicable testimonials etc.) will not be entertained and will be summarily rejected.
- 5. Following documents must be attached along with the physical/hard copy(print-out) of online application form sent by post:**
- A Coloured photograph pasted on the form and signed across in full.
 - B Self-Attested photocopy of 10th / 12th class certificate indicating Date of Birth.
 - C Self-Attested photocopies of all education qualifications certificates as well as mark sheets.
 - D Self-Attested photocopy of Caste, EWS& PwD certificate, if applicable.
 - E Self-Attested photocopies of experience certificates, if any.
 - F Recommendations of the referees, if any
 - G All other supportive documents in support of the application

IMPORTANT: CANDIDATES MUST DOWNLOAD AND READ "HOW TO APPLY ONLINE" DOCUMENT, AVAILABLE ON THE WEBSITE, FOR INSTRUCTIONS FOR ONLINE APPLICATION.

Administrative Officer