

CSIR-NATIONAL CHEMICAL LABORATORY
Dr. Homi Bhabha Road, Pune - 411 008

Advertisement No. 01/2019 [ABSTRACT]

Last Date for Receipt of Online applications : 06.01.2020

A unique opportunity for research careers in Science & Technology

The Council of Scientific and 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 structural and environmental engineering, smart materials to mechatronics, petrochemicals to synthetic biology and from robotics and micro-machines to drugs & pharmaceuticals and agrochemicals.

National Chemical Laboratory, a unit of Council of Scientific and Industrial Research (CSIR), is a premier scientific organization involved in conducting high quality research in area of chemical and allied sciences. Applications are invited **ONLINE ONLY** from Indian nationals for filling up the following scientific positions:

Designation	No. of Posts	Pay Matrix (7 th CPC)	*Total Emoluments (per month)	**Upper Age Limit not exceeding (as on last date of online application)
Scientist	04 (UR) 01 (EWS) 03 (OBC) 02 (SC) 01 (ST)	Level - 11 (Rs. 67700 - 208700)	Rs. 1,00,136/-	32 years
Sr. Scientist	08 (UR) (including 01 (UR) backlog)	Level - 12 (Rs. 78800 - 209200)	Rs. 1,15,232/-	37 years

*Total Emoluments means approximate total emoluments on minimum of scale including HRA in Class 'X' City.

** Please see age relaxation under Relaxation column.

For further details please visit our website <http://recruit.ncl.res.in> and apply through the online application form available there. The detailed advertisement, terms and conditions and instructions to the candidates are available on the website. For any technical query while applying online, please send e-mail to recruit@ncl.res.in.

Date of commencement of online applications : **06.12.2019**
Last date for receipt of online applications : **06.01.2020**
Last date for receipt of hard copy applications : **24.01.2020**

Sd/-
(Administrative Officer)



CSIR - NATIONAL CHEMICAL LABORATORY
(Council of Scientific & Industrial Research)
Dr. Homi Bhabha Road
Pune - 411008 (INDIA)

Advertisement No. 01/2019 Dated 06.12.2019

Last date for receipt of online applications : 06.01.2020

A unique opportunity for research careers in Science & Technology

CSIR-National Chemical Laboratory (NCL), Pune a premier institute under the Council of Scientific and Industrial Research (CSIR), involved in multidisciplinary R&D programmes of both basic and applied nature across scientific disciplines for economic, environmental and societal benefits for the people of India. It is engaged in the scientific research in chemicals and allied sciences.

In order to meet the incoming demands of research in both basic and allied sciences, applications are invited **ONLINE ONLY** 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 Biochemical Sciences, Physical & Materials Chemistry, Chemical Engineering & Process Development, Catalysis & Inorganic, Organic Chemistry, Polymer Science & Engineering to fill up the vacancy of following posts of scientists as per the details given below.

Designation	No. of Posts	Pay Matrix (7 th CPC)	*Total Emoluments (per month)	**Upper Age Limit not exceeding (as on last date of online application)
Scientist	04 (UR) 01 (EWS) 03 (OBC) 02 (SC) 01 (ST)	Level - 11 (Rs. 67700 - 208700)	Rs. 1,00,136/-	32 years
Sr. Scientist	08 (UR) (including 01 (UR) backlog)	Level - 12 (Rs. 78800 - 209200)	Rs. 1,15,232/-	37 years

*Total Emoluments means approximate total emoluments on minimum of scale including House Rent Allowance in Class 'X' City.

**Please see age relaxation under Relaxation column.

Abbreviations used: UR - Unreserved, SC - Scheduled Caste, ST - Scheduled Tribe, OBC - Other Backward Class, EWS - Economically Weaker Section.

Details of Scientific Positions

Post Code No. 01

- **Post : Scientist**
- **Category : Unreserved (UR)**
- **Division : Business Development Division (BDD)**
- **Essential Educational Qualifications & Experience:** Ph. D. submitted in Chemistry/Chemical Engineering/Chemical Technology OR M.E/M. Tech. in Chemical Engineering/ Chemical Technology.
- **Desirable Qualification and Experience:** Master's degree in management or business administration or Intellectual Property rights. Candidate should have experience of handling large multi-location, multi-dimensional research projects in the field of Chemistry and Chemical Engineering. He/She should be having in-depth understanding and experience in marketing technologies and Patents developed by the laboratory. The selected candidate will provide leadership in dealing with commercial aspects of technology transfer licensing agreement, contract research and Consultancy agreements, financial management along with Intellectual Property rights. The candidate should have excellent communication skills and should be proficient in converting lab technologies and Intellectual Property Rights into business. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate is expected to be involved in technology/contract management activities, secondary market research, drawing technology business plans, Intellectual Property rights and negotiating and concluding Commercial agreements with Industrial clients of the laboratory. He/She should be able to manage Government/ Govt. agency funded projects. Candidate should be adept in preparing research project documents in consultation with scientists and management; compile project progress reports; and identify resource and infrastructure requirement of the Projects across all disciplines. Selected Candidate shall be responsible for timely compliance with all statutory reporting.

Post Code No. 02

- **Post : Scientist**
- **Category : Unreserved (UR)**
- **Division : Chemical Engineering & Process Development (CEPD)**
- **Essential Educational Qualifications & Experience:** M.E. in Chemical Engineering / Biochemical Engineering OR M. Tech. in Chemical Engineering / Biochemical Engineering / Biotechnology OR Ph. D. submitted in Chemical Engineering / Biochemical Engineering/ Biotechnology.
- **Desirable Qualification and Experience:** Ph. D. in Biotechnology/Biochemical Engineering/Chemical Engineering from recognized university. Excellent academic record and having sound research expertise in upstream and downstream processing and/or analytical characterization of recombinant proteins like antibodies, antibody fragments or enzymes. Minimum 1-2 year post Ph.D. experience (Industrial experience preferred) in process or product development in upstream and or downstream processing of recombinant proteins. This exceptional individual must have in-depth knowledge and hands-on experience in upstream or downstream process development activities, such as high cell density fermentations, purification, characterization, and, preferably experience with commercial readiness strongly preferred. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The incumbent will be involved in projects related to upstream and downstream processing and/or analytical characterization of recombinant proteins like antibodies, antibody fragments or enzymes. He/She will also conduct independent research in emerging area of process /product development and process optimization.

Post Code No. 03

- **Post : Scientist**
- **Category : Other Backward Class (OBC)**
- **Division : Chemical Engineering & Process Development (CEPD)**
- **Essential Educational Qualifications & Experience:** M.E. in Chemical Engineering OR M. Tech. in Chemical Technology OR Ph. D. submitted in Chemical Engineering OR Ph.D. submitted in Chemical Technology.

- **Desirable Qualification and Experience:** Experience in process development, process design and engineering, process optimization, actual hands on experience of process development relevant to fine and specialty chemicals and process intensification, with a proven record of excellence in research, as evidenced by publications in peer reviewed journals and/or patents in the relevant field with leading contributions. The candidates having experience in Process Automation, Process Optimization etc. will be preferred. For M. E. and M. Tech. Candidates experience of more than three years in the above specified areas is preferable. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate needs to assist senior scientists, in the area of process development and process design in projects related to fine and specialty chemicals as well as expected to pursue translational research in the above said area of specialization, relevant to institutional R & D programs and projects. To provide technology support/solution to the industry and organize demonstration, workshop, seminar and training. He/She will also conduct independent research in emerging area of process /product development and process optimization.

Post Code No. 04

- **Post : Scientist**
- **Category : Scheduled Caste (SC)**
- **Division : Chemical Engineering & Process Development (CEPD)**
- **Essential Educational Qualifications & Experience:** M.E/M. Tech. in Chemical Engineering OR Ph. D. submitted in Chemical Engineering.
- **Desirable Qualification and Experience:** Having experience on wastewater treatment technologies/ processes / devices as core area of research and with minimum 2 publications in SCI journals of the subject areas mentioned above. Hands-on experience in the design and development effluent treatment plant or solvent recovery process/plant is highly desirable. Candidates having work experience in advanced wastewater techniques/Product Development/Process Development/ Technology innovation/Applied technology/Translation research etc. will be given due weightage.
- **Job Specification:** The selected candidate needs to assist senior scientists, in the area of wastewater treatment technology as well as expected to pursue translational research in the

above said area of specialization, relevant to institutional R & D programs and projects. To provide technology support/solution to the industry and organize demonstration, workshop, seminar and training. He/She will also conduct independent research in emerging area of wastewater treatment technologies/ processes /devices.

Post Code No. 05

- **Post : Scientist**
- **Category : Other Backward Class (OBC)**
- **Division : Biochemical Sciences (National Collection Of Industrial Micro-Organisms)**
- **Essential Educational Qualifications & Experience:** Ph. D. submitted in Microbiology or allied areas of Microbial Sciences involving research in fungal systems.
- **Desirable Qualification and Experience:** Minimum 2 years of postdoctoral experience in the area of fungal taxonomy and/or fungal biotechnology with actual research work/publications in the area of classical and advanced approaches on strain improvement and 2 publications in SCI journals or at least one patent in the area of fungal systems. The candidates having experience in Process/Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate is expected to contribute in maintaining, supplying and authenticating microbial cultures for customers. Further candidate should conceive and undertake industry oriented applied research in the area of fungal biotechnology and also participate in the on-going research activities of the center.

Post Code No. 06

- **Post : Scientist**
- **Category : Unreserved (UR)**
- **Division : Physical & Material Chemistry (PMC) / Center For Material Characterisation (CMC)**
- **Essential Educational Qualifications & Experience:** Ph.D. submitted in Science/ Chemistry/Chemical Sciences.
- **Desirable Qualification and Experience:** M. Sc. in Chemistry, Ph.D. thesis with chemical crystallography as the core subject of the research. Experience in crystal structure

determination using single-crystal XRD data, handling of single-crystal X-ray diffractometer, as well as skills in working with various crystallography software are highly desirable. Candidates should have knowledge on molecular crystal polymorphism, co-crystals, porous materials, solid-state structural chemistry, and characterization of materials. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.

- **Job Specification:** The candidate is expected to maintain and run single-crystal X-ray Crystallography facilities at the institute and render X-ray crystallography services to the NCL researchers as well as industry/academia clients. The selected candidate is expected to carry out independent research in the area of Crystal engineering, drug polymorphism, and pharmaceutical cocrystals. The candidate is also expected to take an active role in pursuing basic as well as translational research and participate in the on-going research activities of the Laboratory.

Post Code No. 07

- **Post : Scientist**
- **Category : Unreserved (UR)**
- **Division : Polymer Science & Engineering (PSE)**
- **Essential Educational Qualifications & Experience:** Ph.D. submitted in Chemistry or Chemical Engineering / Chemical Technology with membrane science/ membrane technology as the Ph.D. work.
- **Desirable Qualification and Experience:** Ph. D. (Chemistry/Chem. Engg.) awarded with membrane science/technology as the core area of research, involving membrane preparation and analysis in the area of gas separation, ultrafiltration, osmosis, nanofiltration or alike. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate is expected to engage in the development of membranes for industrially relevant separation applications, upscale membrane making using continuous casting / spinning, making modules and analyse. The candidate should have soft skills; ability to learn, grasp and develop new techniques of membrane making and their applicability.

Post Code No. 08

- **Post : Scientist**
- **Category : Other Backward Class (OBC)**
- **Division : Polymer Science & Engineering (PSE)**
- **Essential Educational Qualifications & Experience:** Ph. D. submitted in Chemistry or Chemical Engineering / Chemical Technology with membrane science/technology/PEMFC as the Ph. D. work.
- **Desirable Qualification and Experience:** Ph.D. (Chemistry or Chem. Engg.) awarded with membrane science/technology as the core area of research, involving membrane preparation and analysis in the area of PEMFC or alike. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate is expected to engage in team of the development of membranes, electrodes, MEA and evaluate for PEMFC/DMFC/separation applications. The candidate should have soft skills; ability to learn, grasp and develop new techniques of membrane making and their applicability.

Post Code No. 09

- **Post : Scientist**
- **Category : Scheduled Caste (SC)**
- **Division : Polymer Science & Engineering (PSE)**
- **Essential Educational Qualifications & Experience:** B.E./B.Tech. with advanced diploma in the area of polymer synthesis and application in polymer coatings/surface modification and/or microencapsulation OR Ph. D. submitted in polymer chemistry, polymer coatings, microencapsulation, surface modification.
- **Desirable Qualification and Experience:** Ph.D. (Chemistry/Chem. Engg.) awarded with Polymer Science / Technology as the core area of research and work experience in chemical/polymer industry will be an added advantage. Hands-on expertise in polymer synthesis (condensation, addition, emulsion polymerization etc.) and their applications in polymer coatings (anticorrosive coatings, antireflective coatings, coatings for innovative sensor systems) and / or microencapsulation, their characterization and applications in

practical control release coatings/formulations, characterization of polymer properties, experience in prototype/product development/technology innovation/applied technology.

- **Job Specification:** The selected candidate is expected to work in a team and engage in the development of new coating formulations, innovative coating processes and microcapsules for control release of antibacterial/antifungal reagents for industrially relevant applications. He/She will be involved in the preparation of polymer coatings (anticorrosive coatings, antireflective coatings, coatings for innovative sensor systems) or encapsulate suitable reagents and investigate release mechanisms, take field trials. The candidate is expected to work in application driven programs and contribute to prototype design, preparation demonstrations, and engineering aspects of polymer coatings and/or microencapsulation. The candidate should have ability to learn, grasp and develop new techniques of and possess soft skills.

Post Code No. 10

- **Post : Scientist**
- **Category : Economically Weaker Section (EWS)**
- **Division : Catalysis & Inorganic Chemistry Division**
- **Essential Educational Qualifications & Experience:** Ph. D. submitted in Chemistry or Chemical Sciences or Chemical Engineering.
- **Desirable Qualification and Experience:** Candidate with Ph.D. awarded and having post Ph.D. research experience (as evidenced by publications in international peer reviewed journals/patents) in the area of heterogeneous catalysis of small molecule activation (Methane, carbon dioxide etc.) towards Liquid and Gaseous Fuels. Experience in operation of High pressure reactors will be given preference. Candidates having experience in Process Development/ Technology Innovation / Applied Technology etc. will be a plus.
- **Job Specification:** The incumbent will be involved in the projects related to small molecule activation (Methane, carbon dioxide etc.) towards Liquid and Gaseous Fuels. Operation and maintenance of high pressure Batch and Continuous Reactors. He/She will also conduct independent research in these areas.

Post Code No. : 11

- **Post : Scientist**
- **Category : Scheduled Tribe (ST)**
- **Division : Catalysis & Inorganic Chemistry Division**
- **Essential Educational Qualifications & Experience:** Ph. D. submitted in Chemical Sciences or Chemistry.
- **Desirable Qualification and Experience:** Candidate with Ph.D. awarded and having post Ph.D. research experience (as evidenced by publications in international peer reviewed journals/patents) in in-situ spectroscopy and surface science is preferred. Preference will also be given to the candidates having hands-on expertise in in-situ/operando analysis of catalytic materials in high vacuum/pressure based techniques (such as, near ambient pressure photoelectron spectroscopy, in-situ IR, in-situ Raman spectroscopies). The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The incumbent will be involved in projects related to in-situ spectroscopy/ surface science etc. and coordinate with other project leaders. Overall upkeep of high end instruments for the best utilization. He/She will also conduct independent research in these areas.

Post Code No. 12

- **Post : Sr. Scientist**
- **Category :Unreserved**
- **Division : Biochemical Sciences Division**
- **Essential Educational Qualifications & Experience:** Ph. D. in any branch of biological sciences involving protein structural biology work with two years post-doctoral work experience in X-ray crystallography and/or cryo-electron microscopy for macromolecules (proteins) with reference to infectious diseases.
- **Desirable Qualification and Experience:** Minimum 5-years of postdoctoral experience and 5-publications in SCI journals in the above mentioned area. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.

- **Job Specification :** The selected candidate is expected to maintain and run X-ray crystallography facility and undertake protein structural biology research. Further to develop industry oriented applied research on her/his own in the area and also participate in the on-going research activities of the division.

Post Code No. 13

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Chemical Engineering & Process Development (CEPD)**
- **Essential Educational Qualifications & Experience:** Ph.D. in Chemical Science/Chemistry in the area of catalysis from a reputed university or institute with two years research experience.
- **Desirable Qualification and Experience:** Excellent academic record and having sound research expertise in the area of catalysis and application development. Minimum 3 years of post-doctoral/industrial research experience after Ph.D. with high-quality publications in high impact journals. Candidates in this category should have enough experience in the synthesis and characterization of transition-metal based catalyst and should have expertise in performing common organic transformations including high-pressure reactions. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate is expected to conceive and undertake industry oriented applied research on her/his own in the area of organometallic catalysis and also participate in the on-going research activities of the group.

Post Code No. 14

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Physical & Material Chemistry (PMC) / Center For Material Characterisation (CMC)**
- **Essential Educational Qualifications & Experience:** Ph.D. in Chemistry/Materials Science with two years of research experience in the area of bioceramic materials OR Ph.D. in Ceramics Engineering.

- **Desirable Qualification and Experience:** M.Sc. in Chemistry/Materials Science or B.E./B.Tech. in Ceramics Engineering/Materials Science; experience in the synthesis/processing/fabrication and characterization of bioceramics, experience in the fabrication and testing of devices & implants, Experience in handling biomimetic materials, bioceramic substrates, ceramic materials/composites for biomedical/clinical/therapeutic applications, experience in translational aspects of biomaterials-based products, scaffolds, bone substitutes, etc. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** The selected candidate is expected to carry out independent research in the area of bioceramic materials leading to biomaterials-based products, scaffolds, bone substitutes, devices, implants, etc. The candidate is also expected to take an active role in pursuing translational research in the relevant area and participate in the on-going research activities of the Laboratory.

Post Code No. 15

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Polymer Science & Engineering (PSE)**
- **Essential Educational Qualifications & Experience:** Ph.D. in Chemical Engineering or Materials Engineering or Polymer Engineering OR Ph.D. in Physics or Chemistry or Materials Science or allied areas with 2 years experience in the area of X-ray diffraction techniques applied to polymeric materials.
- **Desirable Qualification and Experience:** Candidates with a Ph.D. in Chemical Engineering or Materials Engineering or Polymer Engineering OR a Ph.D. in Physics, Chemistry, Materials Science or allied areas with minimum 2 years post-doctoral training and with experience in X-ray diffraction techniques applied to polymeric materials. Preference will be given to candidates who have contributed to advancements in methodology for X-ray diffraction or in solving crystal structures for synthetic semi crystalline polymers.

Preference will be given to the candidates with work experience in a university and/or research institute and/or industry on technology development programs in which structural characterization of semi crystalline polymers, and development of quantitative

relationships between semi crystalline structure and polymer material properties has been an integral part of the program. Preference will also be given to candidates who have experience in product development, technology innovation and/or applied technology relating to X-ray techniques as applied to semi crystalline polymers. Additionally, the candidate should have demonstrated ability to undertake fundamental research in the area of polymer crystallization, as demonstrated through publications in high impact factor journals or patents.

- **Job Specification:** The selected candidate is expected to lead a group on X-ray methods applied to semi crystalline polymers. The candidate will join a team of scientists and technologists that is focused on developing quantitative structure-property relations in semi crystalline polymers. To do this successfully, the candidate is expected to have clearly demonstrable expertise on the fundamentals of polymer crystallization, structural studies of polymer crystals and X-ray techniques as applied to the crystal structure of semi crystalline polymers. The candidate is expected to teach basic and advanced polymer physics courses to graduate students. The candidate is expected to write and defend research proposals to various funding agencies. In the long run, the candidate is expected to drive technology programs in semi crystalline polymers and participate in/lead CSIR's large multidisciplinary and multi-institutional research program initiatives.

Post Code No. 16

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Catalysis & Inorganic Chemistry Division**

Essential Educational Qualifications & Experience: Ph. D. in Chemistry or Chemical Science with 2 years of post doctoral experience OR Ph. D. in Chemical Engineering.

- **Desirable Qualification and Experience:** Candidate with a minimum of 3 years of research experience after Ph.D. (as evidenced by publications in international peer reviewed journals/patents) in the area of heterogeneous catalysis for MSW/ Plastic waste to value added products or Experience in Fine Chemicals area. The candidates having experience in Product or Process Development or Technology Innovation will be preferred.
- **Job Specification:** To carry out R&D in the area of MSW/Plastic waste to chemicals and fuels; Heterogeneous catalysis for fine chemicals. The incumbent is expected to conceive

and initiate his/her own research projects in the areas of MSW/Plastic waste to Chemical/Fuels and in Fine Chemicals etc.

Poste Code No. 17

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Catalysis & Inorganic Chemistry Division**
- **Essential Educational Qualifications & Experience:** Ph. D. in Chemistry or Chemical Science with two years of post doctoral experience.
- **Desirable Qualification and Experience:** Candidate with a minimum of 3 years research experience after Ph. D. (as evidenced by publications in international peer reviewed journals/patents) in the area of Photocatalysis of Water Splitting or CO₂ reduction to Hydrogen/ Chemicals/Fuels is preferred. Solar cells, artificial leaf etc. based device development for photocatalysis experience would be a plus. The candidates having experience in Product Development/Technology Innovation/Applied Technology etc. will be preferred.
- **Job Specification:** To carry out R&D in the area of Photocatalysis of Water Splitting /CO₂ reduction to Hydrogen/ Chemicals/Fuels. The incumbent is expected to conceive and initiate his/her own research projects in the areas of Photocatalysis of Water Splitting /CO₂ reduction to Hydrogen/Chemicals/Fuels etc.

Post Code No. 18

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Organic Chemistry Division (OCD)**
- **Essential Educational Qualifications & Experience:** Ph. D. in Chemistry with two years experience in the area of multistep total synthesis of bioactive natural/unnatural products.
- **Desirable Qualification and Experience:** Preference will be given to candidates having doctoral research in the field of synthetic organic chemistry and minimum 2 years post-doctoral experience in the area of multistep total synthesis of bioactive natural/unnatural products with complete command on asymmetric synthetic methodologies, applications of

organometallic reagents and arsenal of synthetic protocols. The candidates having doctoral and post-doctoral experience in above specified areas with well proven publication records having top quality knowledge of product development and technology transfer with prominent contributions in total synthesis will be preferred.

- **Job Specification:** The selected candidate will be expected to carry out research in the above specified areas with building a vibrant research group and teach organic chemistry courses to Ph. D. students.

Post Code No. 19

- **Post : Sr. Scientist**
- **Category : Unreserved**
- **Division : Organic Chemistry Division (OCD)**
- **Essential Educational Qualifications & Experience:** Ph. D. in Chemistry with two years experience in the area of catalytic and non-catalytic multistep continuous flow organic reactions.
- **Desirable Qualification and Experience:** Preference will be given to candidates having experience in the following areas related to organic and organic/physical organic chemistry: multistep continuous flow organic reactions involving catalytic and non-catalytic routes leading to total synthesis, flow synthesis with unconventional energy sources and automated flow synthesis platforms. The candidates having doctoral and post-doctoral experience in above specified areas with well proven publication records having top quality knowledge of product development and technology transfer with prominent contributions to the science and applications of flow synthesis will be preferred.
- **Job Specification:** The selected candidate will be expected to carry out research in the above specified areas with building a vibrant research group and teach organic chemistry courses to Ph. D. students.

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 emoluments indicated against each category of posts, benefits such as applicability of New Pension Scheme 2004, reimbursements of Medical Expenses, Leave Travel Concession, Conveyance advance and House Building Advance are available as per CSIR rules.
- c. Scientists in CSIR are also permitted to undertake consultancy and sponsored R&D project activity. These activities give them scope to earn consultancy fee and honorarium as per CSIR guidelines governing these activities. Opportunities also arise for foreign deputations for training/presentation of papers/specific assignments etc.
- d. CSIR provides excellent opportunities to deserving candidates for career advancement under Assessment Promotion Scheme for Scientists.

2. Other conditions

- a. The applicant must be a citizen of India.
- b. 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 online 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.

- c. The application should be accompanied by self attested copies of the relevant educational qualification, experience, etc. 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.**
- 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 receipt of applications.
- 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.
- i. Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.
- j. Only outstation candidates called and found eligible for interview will be paid to and from 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 Pune Railway Station on production of Rail Tickets/Rail Ticket Numbers or any other proof of journey.
- k. 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.
- l. The decision of the **Director, CSIR-National Chemical Laboratory (CSIR-NCL), Pune / 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.
- m. Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post.
- n. **NO INTERIM ENQUIRY OR CORRESPONDANCE WILL BE ENTERTAINED.**

3. Relaxations :

- a. The date for determining the age limit/experience/qualifications shall be the closing date online application i.e. **06.01.2020**.
- b. 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 are reserved for respective categories**, on production of relevant **Caste/Category Certificate** in the prescribed **Government of India (GOI) format** signed by the specified authority.
- 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, age relaxation for 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 and upto 38 years for members belonging to the Other Backward Classes 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 judgment/decreed 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.
- e. Age relaxation to Person 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) 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.
- f. SC/ST/OBC/PWD/EWS (Economically Weaker Section) candidates are required to produce a copy of the relevant certificate in the prescribed format of Government of India (GOI) signed by the specified authority along with their hard copy of application form.
- g. Provision of reservation for candidates belonging to Economically Weaker Section (EWS) will be as per Govt. of India instructions issued from time to time. For the posts reserved for EWS, the concerned candidates belonging to EWS need to attach the attested copy of the Income and Assets Certificate in the prescribed format issued by the prescribed authority.
- h. 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.
- i. 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 only** through our website <http://recruit.ncl.res.in>, *followed by sending hard copy of online application, along with the mark sheets, certificates and other testimonial etc.*
- b. If the candidate does not have a valid E-mail ID, he/she should create a new valid E-mail ID before applying online.
- c. **Online Application will be available on our website <http://recruit.ncl.res.in> upto 06.01.2020.**
- d. The candidates are required to remit the application fee of Rs. 100/- in favour of '**Director, National Chemical Laboratory**' through online payment system i.e. NEFT / Bank Transfer/Net Banking etc., with the following details:
 - **Bank Name: State Bank of India**
 - **Account No.:30267257846**
 - **IFSC Code No: SBIN0003552**
 - **Branch Code: 3552**
 - **Branch Name: NCL Campus Branch, Pune**

The candidates are required to generate acknowledgement of remitted application fee from the online payment system, containing UTR Number/ Transaction Number and Transaction Date and the same is required to be attached along with the hard copy of online application.

The last date for applying online application and remitting of application fee through online payment system is **06.01.2020**. This date will be the same for the candidates belonging to far-flung areas.

The following details must be filled up on back side of printed copy of generated acknowledgement of remitted application fee (i) Candidate's Name, (ii) Application ID (iii) Candidate's Category (iv) Post Code Applied For.

[The candidates belonging to SC / ST / PWD / Women / CSIR Employees / Abroad Candidates category are exempted from submission of application fee.](#)

- e. 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.
- f. First time users need to register themselves by clicking on 'Register' tab. Candidate needs to supply his/her email id which will be used as a login id into the system. The activation link will be sent to that email id. After clicking that activation link, his/her account of NCL Recruitment Portal will be activated. Once it is activated, he/she may login and proceed for applying. Please note that candidate can apply for more than one post using a single login id.
- g. Once candidate logs in, he/she is required to select the post to apply and click 'Fill Application' against the post, he/she wishes to apply for. In case candidate has already logged

in on a previous occasion and began the process of application, the top of the page will display the post/s for which he/she has already applied. Then he/she needs to click 'View' link to proceed.

- h. Candidates can then start filling the online application form which is divided into 12 parts., namely Personal Information, Academic Details, Doctoral Work, Paper Publications, No. of publications & Patents, Technology Developed, Awards, Other Qualifications, Experience, CSIR Relatives, Application Fee Details and Enclosure . The first part to be filled in is the Basic information followed by the other parts.
- i. While filling the online application form, Candidates must fill Personal Information and Academic Details. If these details are not filled, online application form will not submitted.
- j. In case candidate feels that he/she has acquired some additional academic qualification which is relevant to the post advertised, he/she may enter that under 'Other qualification'. Please note that SSC and HSC details needs to be entered under 'Academic details' category and **not** to be entered under 'other qualification' category.
- k. If candidates do not have any relatives who are in service in CSIR, he/she does not need to fill up the part under 'Relatives'.
- l. The candidates are required to fill the details of online generated acknowledgement of remitted application fee viz. UTR / Transaction Number, Candidate's Bank Account Number, UTR /Transaction Date and Amount etc.
- m. After completely filling the online application form, candidates can save and take printout of the filled application in PDF format. Candidates need to note down "Application ID" carefully for future communication. **The candidates must sign on this computer generated printed online application.**
- n. This computer generated application (Print-out) duly signed by the candidate and 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), acknowledgement of remitted application fee (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 _____) Advt. No....."** by post to the following address so that it should reach on or before **24.01.2020** :-

Director

CSIR - National Chemical Laboratory

Dr. Homi Bhabha Road

Pune - 411008 (Maharashtra)

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 online generated acknowledgement of remitted application fee.

- o. 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.
 - p. 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 Director, CSIR-National Chemical Laboratory (CSIR-NCL), Dr. Homi Bhabha Road, Pune - 411008 at the earliest.
 - q. Candidates should specifically note that the applications received after the closing date (last date for receipt of hard copy applications), for any reason whatsoever (such as envelopes wrongly addressed, delivered elsewhere, postal delay etc.) will not be entertained by Director, CSIR-National Chemical Laboratory, Pune.
 - r. Incomplete applications (i.e. unsigned, without photograph / application fee / applicable certificates / mark sheets / testimonials etc.) will not be entertained and will be summarily rejected.
5. **Following documents must be attached along with application form sent by post:**
- a. Self attested Copy of acknowledgement of remitted application fee, where applicable.
 - b. Coloured photograph pasted on the form and signed across in full.
 - c. Self attested copy of Date of Birth Certificate/SSC/SSLC certificate.
 - d. Self attested copies of the Degree Certificates, Mark-sheets, Proof of date of birth, testimonials and Experience certificates.
 - e. List of the Publications/Research Papers and attested copies/reprints of such Publications/Research Papers.
 - f. Self attested copy of the Medical certificate (in case of Persons with Disability candidates) from the prescribed authority in the prescribed format.
 - g. Self attested copy of the Caste certificate (in case of SC/ST/OBC) in the appropriate Pro Forma prescribed by the Government of India from time to time.
 - h. Self attested copy of the Income and Assets Certificate (in case of the Candidates belonging EWS category) in the prescribed format issued by the prescribed

authority.

- i. Self attested copy of the Medical certificate (in case of Persons with Disability candidates) from the prescribed authority in the prescribed format.
- j. Self attested copy of the Discharge Book/Certificate (in case of Ex-Servicemen candidates).

Date of commencement of online applications : 06.12.2019

Last date for receipt of online applications : 06.01.2020

Last date for receipt of hard copy applications : 24.01.2020

**Sd/-
(Administrative Officer)**

