



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
Anusandhan Bhawan, 2 Rafi Marg, New Delhi-110 001

Opportunity to Lead CSIR's State-of-the-art National Laboratories/Institutes

Established in 1942, the Council of Scientific and Industrial Research (CSIR) is an autonomous Society whose President is the Prime Minister of India. CSIR today is amongst the foremost and largest publicly funded scientific and industrial research organizations in the world. It delivers cutting edge science on one hand and state-of-the-art technology on the other. In doing so, focus is on translational research. CSIR has a dynamic network of 37 state-of-the-art national Laboratories/ Institutes, 6 Units, 3 Innovation Complexes and 38 Centres. CSIR has put in place CSIR@80: Vision & Strategy 2022 - New CSIR for New India. CSIR's Vision is to: "Pursue science which strives for global impact, technology that enables innovation-driven industry and nurture trans-disciplinary leadership thereby catalysing inclusive economic development for the people of India".

CSIR has played over the years, a pivotal role for advancement of science and technology covering diverse domains. It has spawned many organizations, many disciplines and most importantly has served as a nursery and training ground for most of India's distinguished scientists and technologists. CSIR has ushered India into the knowledge economy, by contributing to public, private, strategic and societal goods on one hand and creating and nurturing talent in science, innovation and technology on the other. Pioneer of India's intellectual property movement, CSIR is granted 90% of US patents granted to any Indian publicly funded R&D organization. About 12% of CSIR patents are licensed, a number which is much above the global average. CSIR holds about 4500 Indian and Foreign patents. CSIR publishes yearly over 5700 papers in SCI journals & about 500 students get their Ph.D. annually from its institutions. The expertise and experience of CSIR is embodied in its more than 3800 Scientists and 8000 technical support personnel apart from about 8500 JRF/SRF/RA and project staff.

CSIR is looking for outstanding R&D professionals to head its prestigious national Laboratories/ Institutes. They would have opportunity to participate and contribute to achieve the objectives embodied in CSIR's mission, to "build a new CSIR for a new India" and its vision. The coveted top management positions of DIRECTORS of CSIR-CCMB, Hyderabad; CSIR-IMTech, Chandigarh; CSIR-NBRI, Lucknow; CSIR-IIP, Dehradun; CSIR-CBRI, Roorkee; CSIR-NAL, Bengaluru; CSIR-NISCAIR, New Delhi; and CSIR-NGRI, Hyderabad are available. The details are as shown below:

Biological Sciences

CSIR-Centre for Cellular and Molecular Biology (CSIR-CCMB), Hyderabad is a premier Laboratory, working in frontier areas of modern biology with intellectual and physical infrastructure comparable to the very best in the world. Current areas of focus include biomedicine and diagnostics, evolution and development, gene regulation in prokaryotes and eukaryotes, host-parasite interactions, membrane biology, protein structure, bio informatics, functional genomics, proteomics, wild life conservation and theoretical biology. The Laboratory is systematically focusing on translational research and thus bringing in desired S&T interventions.

For more details about the laboratory, visit <http://www.ccmb.res.in>

CSIR-Institute of Microbial Technology (CSIR-IMTech), Chandigarh is a forerunner in the domain of microbial technology, thrombolytics and protein science and engineering. It has established world class laboratories and ambience for R&D activities. CSIR-IMTech activities are focused at molecular biology, microbial genetics, immunology, fermentation technology, applied microbiology and animal cell/tissue culture. The institute has cutting edge R&D expertise in the areas of: cloning & expression of recombinant / engineered proteins & their scale-up; understanding/manipulating proteins and their engineering; molecular microbiology of pathogens especially with respect to drug resistance & vaccine development; immunology of infectious diseases; yeast genetics; microorganisms for novel enzymatic activities and strain improvement; bioinformatics & high end computational biology etc.

For more details about the laboratory, visit <http://www.imtech.res.in>

CSIR-National Botanical Research Institute (CSIR-NBRI), Lucknow is a plant based multidisciplinary, state-of-art national institute undertaking research from classical taxonomy to cutting edge areas of modern biology including both applied and basic research. The areas covered include bioinformatics, conservation biology, cytogenetics, environmental sciences, ethnopharmacology, floriculture, microbiology, plant microbe interaction, molecular biology and genetic engineering, physiology, phytochemistry, plant biodiversity, plant breeding, taxonomy and tree biology, for the conservation and sustainable utilization of the non-crop plant genetic resources of the country.

For more details about the laboratory, visit www.nbri.res.in

Chemical Sciences

CSIR-Indian Institute of Petroleum (CSIR-IIP), Dehradun is the premier R&D Institute serving the areas of petroleum refining, natural gas, alternative fuels, petrochemicals, utilization of petroleum products in IC engines and in industrial and domestic combustion. CSIR-IIP provides knowledge based technical and analytical services to petroleum refining and related industry. It has transferred novel, state-of-art technologies and products for commercial exploitation. The Institute maintains leading position for imparting training to technical personnel from refining industry, petrochemical plants, automotive sector, power plants and other related user industry.

For more details about the laboratory, visit <http://www.iip.res.in>

Engineering Sciences

CSIR-Central Building Research Institute (CSIR-CBRI), Roorkee has been contributing for the advancement of building science and technology (focus on translational research). Providing the desired knowledgebase, the institute has partnered and enabled the building construction and building material industries with appropriate and economical solutions related to the rural and urban housing, energy efficiency, energy conservation, materials, fire hazards, structural and foundation problems and disaster mitigation. Its core areas of strength include: structural engineering; geotechnical engineering; architecture & planning; organic building materials; efficiency of buildings; polymer plastics & composites; clay products; acoustics, instrumentation and mechanical systems; fire research; and environmental science and technology. The institute has strong linkages with the stakeholders including Government Ministries and Departments. CSIR-CBRI is known for its knowledgebase in the domain.

For more details about the institute, visit <http://www.cbri.res.in>

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CSIR-National Aerospace Laboratories (CSIR-NAL), Bangalore: Engaged in R&D activities related to light aircrafts, CSIR-NAL has core competence for design, development and fabrication of such aircrafts. The research programmes of NAL thus cover a gamut of disciplines ranging from advanced composites to computational fluid dynamics, from experimental aerodynamics to structural design and from flight mechanics to propulsion. CSIR-NAL has contributed significantly over the years for the advancement of Aerospace R&D in the country and creation of aerospace ecosystem.

For more details about the institute, visit <http://www.nal.res.in>

Information Sciences

CSIR-National Institute of Science Communication & Information Resource (CSIR-NISCAIR), New Delhi is an institute providing multifaceted knowledge processing, generation and dissemination services to S&T community and the common people. It brings out a wide variety of S&T publications including research journals, encyclopedia, monographs, handbooks, and S&T status reports. It hosts the National Science Library and is developing human resources in S&T communication and information resources through various short-term and attachment training programmes.

For more details about the institute, visit <http://www.niscair.res.in>

Physical Sciences

CSIR-National Geophysical Research Institute (CSIR-NGRI), Hyderabad is acclaimed internationally for its research and contributions in the areas of earth sciences. Its R&D programmes are aimed at: exploration of hydrocarbons; minerals and ground water and other geo resources using advanced or developing novel ones for the purpose; and studies in earth-quake Hazards, Lithosphere, Geo-environment, Geophysics etc. Over the years, CSIR-NGRI has created state of the art R&D infrastructure and its knowledgebase is second to none.

For more details about the institute, visit www.ngri.org.in

Essential Qualifications:

Biological Sciences: Ph.D. in Natural Sciences or Master's Degree in Health/Medical Sciences (for Health/Medical Sciences, Ph.D. is desirable).

Chemical Sciences: Ph.D. in Natural Science or Master's Degree in Engineering (for Engineering, Ph.D. is desirable).

Engineering Sciences: Master's Degree in Engineering (Ph.D. in Engineering is desirable)

Information Sciences: Ph.D. in Natural/Social Sciences or Master's Degree in Engineering (for Engineering, Ph.D. is desirable)

Physical Sciences: Ph.D. in Natural Science or Master's Degree in Engineering (for Engineering, Ph.D. is desirable)

Age: 45 years or above but not exceeding 58 years.

Experience: 16 years of experience in Research and Development (with focus on translational research) in the areas of activities of the Laboratory/Institute and demonstrated excellence in leadership therein.

Years of experience shall be computed from the beginning of candidate's research career.

Relaxation: The qualifications, age and experience can be relaxed in case of exceptionally meritorious candidates with the approval of DG, CSIR.

Candidate: Should be creative, innovative and a well-recognized scientist/technologist having a demonstrated ability to manage multidisciplinary R&D teams with excellent interpersonal relations. The candidate should have made significant contributions in terms of technology development apart from creation of IP and publications. He/She should be able to create a conducive environment for nurturing high class research and development.

Responsibilities: The Director shall supervise and exercise administrative control on the staffs of the Institute and shall be responsible for (i) realizing the mission of the Institute, and (ii) creating an environment in the Institute conducive to nurturing of innovation and high class R&D and other S&T activities of the Laboratory/Institute in keeping with societal/industrial priorities.

Appointment: The appointment to the post of Director will be made for a tenure of six years or till superannuation whichever is earlier in the pay scale of Rs 67,000 (annual increment @ 3%)-79,000 (HAG) with allowances as admissible. In deserving cases, the tenure period can be extended by another term upto six years or till the age of superannuation whichever is earlier as per rules.

Benefits: The provision to share monies realized from external contract R&D, consultancy and rendering of S&T services is also available as per extant rules. Residential accommodation and transport are provided as per rules. In addition medical, LTC and other facilities are provided as per CSIR rules.

How to apply:

Interested candidates may kindly send separate brief bio-data for each post, in the proforma given below for preparation of synopsis. The application for the post with detailed bio-data along with list of publications/patents etc. may also be sent through email or by post to Director General, Council of Scientific and Industrial Research (CSIR), Anusandhan Bhawan, 2, Rafi Marg, New Delhi-110001 separately for each post. The last date of the receipt of applications is **15 December, 2015**. Fax: 011-23710618 email: dgcsir@csir.res.in or dq@csir.res.in

(I)

Format for Bio-Data

1. Name:
2. Date of Birth:
3. Current Position and Address:
4. Educational Qualification:

Sl. No.	Degree/Certificate	Year of Passing	University/Institute	Subjects

5. Academic/Research Experience/Employment

Sl. No	From	To	Name of Organization	Position held

6. Area of Specialization:
7. Honors/Awards received:

- 8. Professional Affiliations:
- 9. *(a) Number of Research Publications:
(b) List of best 5 publications in last 10 years:
- 10.* Number of Books authored/edited:
- 11.* (a) Number of Patents granted/applied for
(b) Technologies developed, Licensed and/or commercialized.
- 12. Dissertations supervised:
(a) Ph.D.
(b) Post-Graduation

Signature of the Applicant

Date:
Place:

* Details may be enclosed separately

(II)

Format for indicating R&D and Innovation Output of the candidate

Post Applied for :

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Name & present designation :

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Organisation :

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Research, Development and Innovation Output of the Candidate

A. Technology(ies) and Product(s)/ Service(s):

A.1 Developed A.2 Licensed A.3 Commercialized A.4 New entrepreneurs developed

A.5 Impact of technologies commercialized in terms of:

Sl.No.	Market Share	Industrial turn over catalyzed	Employment created	Societal income created	Royalties and income created for the employers

A.6 Comparison of the technologies commercialized vis-à-vis globally competing technologies in the same space:

B. Licensing of Patents: Filed Granted Licensed

- B.1 National
B.2 International
- C. Skill Development:**
C.1 Areas covered
C.2 No. of people
- D. Socio-economic Interventions:**
No. of technology(ies) deployed
- E. Extension activities:**
E.1 Village adoption & upgradation
E.2 Unique rural problem solving
E.3 Micro entrepreneurs - Setting up - Skill based training - Skill upgradation
E.4 Social responsibility in serving the community/ city/ surroundings (e.g. Environment protection, education, cleanliness, health and hygiene, social work, community service activities, any other socially desirable activity)
- F. Design(s) and Prototype(s) Developed :**
- G. Assistance in technological terms to civic agencies for -**
- Cleanliness of cities :
 - Education delivery in schools :
 - Maintaining hygiene :
- H. Role in National Innovation System (NIS) :**
- I Contributions to India's Strategic Sector:**
- J. Size of the research and development team managed for the last 5 years in man years:**
- K. Honours and awards won for technological contributions or sociological impact of R&D:**
- L. Institutional share of non-budgetary resources mobilized during the last 5 years:**
- M. Any other achievement/information**

Signature