



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Anusandhan Bhawan, 2 Rafi Marg, New Delhi-110 001

CSIR is looking for Director, CSIR-National Botanical Research Institute (CSIR-NBRI), Lucknow; CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu; CSIR-Indian Institute of Petroleum (CSIR-IIP), Dehradun; CSIR-National Metallurgical Laboratory (CSIR-NML), Jamshedpur; and CSIR-Institute of Minerals and Materials Technology (CSIR-IMMT), Bhubaneswar.

Council of Scientific and Industrial Research (CSIR) established in 1942, is an Autonomous Society under the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology. CSIR is a premier R&D organization in the country and has been contributing to the techno-socio-economic development through its varied S, T & I interventions since its inception. With 36 state-of-the-art constituent laboratories, today CSIR is amongst the largest publicly funded innovative scientific and research organizations in the world. CSIR expertise and experience is embodied in its nearly 3,500 Scientists and 4,400 scientific and technical support personnel apart from about 9,000 JRF/SRF/RA and project staff. CSIR publishes more than 5,000 papers annually in peer reviewed International journals (SCI). CSIR has a patent portfolio of 1,315 unique patents in force, out of which 184 patents have been commercialized. CSIR also has 2,372 in force patents granted abroad in multiple countries. CSIR is ranked 37th among 1587 government institutions worldwide and is the only Indian organization among the top 100 global government institutions, according to the Scimago Institutions Ranking World Report 2021, CSIR holds the 7th rank in Asia and leads the country at the 1st position. CSIR has ushered India into knowledge economy while grooming and nurturing talent in various streams of Science and Technology. CSIR has the distinction of having the Hon'ble Prime Minister of India as the President of its Society.

CSIR invites applications/nominations for coveted positions of Director of CSIR-National Botanical Research Institute (CSIR-NBRI), Lucknow; CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu; CSIR-Indian Institute of Petroleum (CSIR-IIP), Dehradun; CSIR-National Metallurgical Laboratory (CSIR-NML), Jamshedpur; and CSIR-Institute of Minerals and Materials Technology (CSIR-IMMT), Bhubaneswar, in order to participate and contribute in conceived vision and mission of CSIR which includes providing S,T& I leadership for sustainable development of the country encompassing economic growth with environment and societal benefits.

Biological Sciences

1. **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. The Institute is involved in important missions like Aroma, Floriculture etc. and has botanic garden, Herbarium and a NBA repository. CSIR-NBRI offers several training and skill development programmes designed to suit the requirement of farmers and entrepreneurs.

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

2. **CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu** is into natural products high end research and technology, including (a) biotechnology driven drug discovery of novel pharmacologically active natural products from plants and microbial species and translating them into leads and candidates by medicinal chemistry, preclinical pharmacology and clinical development. This approach is pursued both in New Chemical Entity (NCE) as well as botanical herbal mode; (b) Preclinical and clinical validation and establishment of mechanism of action of drugs used in various Indian systems of Medicines (Ayurveda, Unani, Siddha and other Indigenous systems of medicine); (c) Develop agro-technologies and commercial cultivation of high value medicinal and aromatic plants from Western Himalayas including Kashmir Valley and Ladakh for national and international markets; and (d) To work with Indian and global pharmaceutical industry to out-license new products and technologies. A multipurpose pilot plant is set up for process development for extraction of plant based materials, isolation of bioactive products and fermentation technology. As part of the 'Aroma Mission', the Institute is responsible for bringing a 'Purple Revolution' by large scale cultivation of lavender in Jammu & Kashmir.

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

Chemical Sciences

3. **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. The institute has experience and expertise in the process and product development (lab / bench / pilot scale), process scale-up, process design, process optimization, process improvement and revamping. The institute is also involved in techno-economic feasibility studies, technology assessment, energy audit and conservation in chemical plants, vehicular pollution abatement, use of alternative



fuels in IC engines and product characterization. Some of IIP's major activity areas are Petroleum Refining, Catalytic Refining and Catalysis, Separation Process, Solvent Extraction, Adsorption, Membranes, along with evaluation and characterization of Lubrication Oil and Modified Bitumen and Carbon Materials. Other areas of expertise are Thermal Conversion Process, Modeling and Simulation, Chemicals /Petrochemicals, Intermediates and Additives for relevant industries. Process and product development for Specialty Chemicals, Petrochemical intermediates, Bio-processing of petroleum streams; Fuel, Lubes and Chemicals from Biomass are recently introduced. Technologies developed by the Institute have been deployed in 20 out of the country's 23 refineries. A key catalyst jointly developed with BPCL is routinely exported to the Middle East. CSIR-IIP innovations in the area of alternative and sustainable fuels have led to both civilian and military flights for the first time in India using indigenous bio-jet fuel. Its waste plastic to diesel demonstration plant, built in partnership with GAIL and capable of using up to 5 percent of Dehradun's waste plastic generation, has built a collection network of 15 plastic banks across Dehradun. CSIR-IIP new wind-solar-biogas hybrid concept will potentially create EV charging networks without batteries, and its concept of retrofit of end-of-life IC engine light passenger vehicles to turn them into EVs promises to deliver significant benefits in decarbonizing the transportation economy.

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

4. CSIR-National Metallurgical Laboratory(CSIR-NML), Jamshedpur is an ISO 9001 certified premier research organization engaged in R&D in the domain of minerals, metals, materials and extractive metallurgy of relevance especially to Indian economy and for mitigating environmental problems of industries. The institute has made notable contributions in the areas of mineral beneficiation and agglomeration, ferrous and nonferrous metallurgy, alloy development and processing, materials science & engineering and, resource conservation & environment. The institute has strong linkages with the stakeholders nationally and internationally.

For more details about the institute, visit www.nmlindia.org

5. CSIR-Institute of Minerals and Materials Technology (CSIR-IMMT), Bhubaneswar is a premier research institute in the areas of minerals engineering and materials technology. The institute has expertise in conducting basic research and technology oriented programs in wide-ranging areas to ensure a sustainable growth of the mining, mineral and metals industries. CSIR-IMMT has been focusing predominantly since last decade for assisting the Indian industries to meet the challenges of globalization by providing advanced and zero waste process know-how

and consultancy services for commercial exploitation of natural resources. The institute is also carving out a niche in processing of advanced materials for greater value addition and working on resource use efficiency of critical raw materials.

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

Qualifications, Experience and Age:-

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

Age: 45 years or above but not exceeding 56 years.

Experience: At least 16 years of experience in Research and Development (with focus on translational research) in the areas of activities of the laboratory/Institutes/Centre 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 staff of the Institute and shall be responsible for (i) realizing the mission of the Institute, and (ii) creating an environment conducive to nurture 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 level 15 of Pay Matrix(Rs. 1,82,200-2,24,100) (pre-revised HAG pay scale of Rs 67,000-79,000) with allowances as admissible. The tenure period will be renewable only in exceptional cases. Director can be considered for absorption/placement in CSIR as Director's Grade Scientist i.e. Scientist 'H'/Outstanding Scientist, as per rules.

Benefits: The provision to share money 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.



4

How to apply: The application/nomination for the post with detailed bio-data highlighting scientific and translational contributions in details alongwith list of publications/patents etc. may be sent through email on email ID **drc@csir.res.in** or by post to Director Recruitment Cell, Council of Scientific and Industrial Research (CSIR), Anusandhan Bhawan, 2, Rafi Marg, New Delhi-110001. A brief bio-data in the proforma given below may also be sent. The last date of the receipt of applications is **16.08.2022**.

Format for Bio-Data

1. Name of the Laboratory applied/nominated for:
2. Name:
3. Date of Birth:
4. Current Position and Address:
5. Educational Qualification:
- 6.

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

7. Academic/Research Experience/Employment

| Sl. No | From | To | Name of Organization | Position held |
|--------|------|----|----------------------|---------------|
| | | | | |

8. Areas of Specialization:
9. Honors/Awards/Recognitions received:
10. Professional Affiliations:
11.
 - a) List of Research Publications including popular articles, if any;
 - b) List of best professional outputs/outcomes in last 10 years, relevant to present field of specialization;
 - c) Highlights of contributions to the area of specialization
12. * Number of Books authored/edited:



- 13.
- a) Number of Patents/Copy rights/Trade Mark/IPR granted/applied for & highlights of translational research contributions:
 - b) Technologies developed, Licensed and/or commercialized with details.
14. Dissertations supervised:
- a) Ph.D.
 - b) Post-Graduation
15. 1-2 page summary of vision as Leader of CSIR- NBRI/IIIM/IIP/NML/IMMT.
16. List of 5 professional referees of high repute with whom candidate has interacted in the past.

I hereby declare that all the information mentioned above is true to the best of my knowledge.

Signature of the Applicant

Date:
Place:

* Details may be enclosed separately

Applicants are requested to additionally fill the below pro-forma in MS word format and send it alongwith their applications through email on drc@csir.res.in :

| Name and Address | Qualifications and Specialization | Experience | Honors/ Awards | Publications/patents /books/Ph.D./Awards No. | List of 05 Referees |
|------------------|-----------------------------------|------------|----------------|--|---------------------|
|------------------|-----------------------------------|------------|----------------|--|---------------------|

