



# CSIR-Fourth Paradigm Institute (CSIR-4PI) Behind HAL Airport, NWTC Road, Yemlur Post, Bengaluru -560037



सिंसआइआर  
CSIR  
भारत का नवाचार इंजन  
The Innovation Engine of India

Advt. No. 04/2023 Dated: 23.12.2023

Date of commencement of online applications: 23.12.2023

Last date for receipt of online applications: 25.01.2024

Last date for receipt of hardcopy of the applications: 09.02.2024

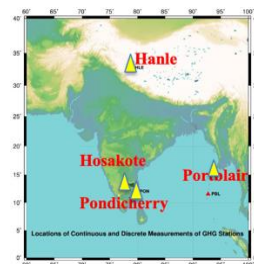
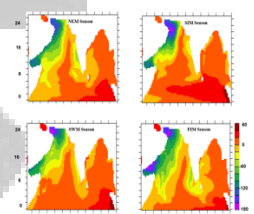
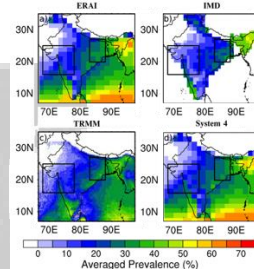
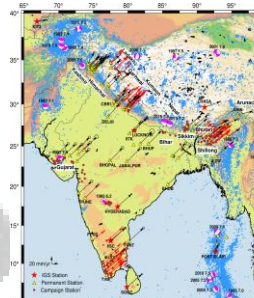
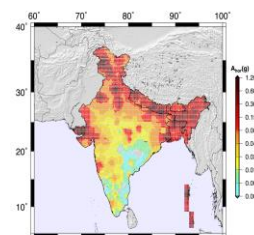
## A unique opportunity for research careers in Science & Technology

CSIR-Fourth Paradigm Institute (CSIR-4PI), Bengaluru is a data driven translational Institute under the Council of Scientific and Industrial Research (CSIR), which is an Autonomous Body under Ministry of Science & Technology, Government of India. The vision of CSIR-4PI is to pursue **“High-end Computational Science Empowering Data Intensive Scientific Discovery”** in trans-disciplinary areas through large scale scientific computing. Our facilities include world-class supercomputing environment; research testbeds; attractive academic programs; strong network of CSIR Labs with domain expertise, etc. CSIR-4PI is recognized as a leader at National Level and competing at International Level for its multidimensional high impact studies of the earth system covering all the four geographic spheres for over three decades.

Online Applications are invited from enthusiastic and highly motivated, young Indian researchers having excellent academic record and proven scientific credentials along with requisite experience and desire to take up research as a career in the field of **Data Science & Supercomputing and Earth & Engineering Sciences**, for the following Scientific Positions:

Designation	No. of Posts	Pay Level	Basic Pay	Total Emoluments(approx.)	*Upper Age Limit not exceeding (As on last date of receipt of online application as mentioned in advt.)
Scientist	20 posts [UR-08 posts, EWS-02 posts, SC-03 posts, ST-02 posts, OBC-05 posts (01 post reserved for PwBD)]	11	Rs.67,700	Rs. 1,50,000/- pm	32 years

\*Details of Age Relaxations has been provided under Clause number 3.



**Description of posts advertised:**

Post code (Reservation Status)	Pay Level	Designation/ No. of Posts /Upper Age limit	Essential Educational Qualifications & Experience	Desirable Qualifications	Job Requirements/ Specifications
<b>Category-1: 15 Posts for Data Science and Supercomputing</b>					
DSSD- 2301 (UR)	11	Scientist No of posts: 06 Age limit: 32 yrs	ME/ M.Tech. in Computer Science/ Information Technology/ Information Science/ Data Science / Big Data/ Machine Learning/ Artificial Intelligence  <b>OR</b> Ph.D. in (Science/Engineering) [submitted] in Computer Science/ Information Technology/ Information Science/Mathematical and Information Sciences/ Data Science / Big Data/ Machine Learning/ Artificial Intelligence	<b>A career with first class from 10<sup>th</sup>/SSLC onwards along with the following:</b>  The essential qualification of Master Degree is preceded with a Bachelors Degree in disciplines related to computer science and one year research experience in highly specialized areas of Data Science, Machine Learning and Artificial Intelligence  <b>OR</b> The essential qualification of Ph.D. in Science (submitted) preceded with master degree in disciplines related to computer science/ mathematics and the research carried out during Ph.D. is related to developing tools and techniques in highly specialized areas of Data Science, Machine Learning and Artificial Intelligence	Develop, train, and evaluate machine learning models for predictive analysis, classification, clustering, or recommendation systems in diverse fields of scientific applications of interest to CSIR spanning Engineering, Biology, Chemistry, Material Science, Physical Science, Earth Sciences and other allied Sciences. This would involve collaborating with other CSIR institutes with domain knowledge and develop Data Science tools and techniques. In addition, the candidate may be required to handle associated IT and computing infrastructure.
DSSD-2302 (SC)	11	Scientist No of posts: 02 Age limit: 37 yrs			
DSSD-2303 (ST)	11	Scientist No of posts: 01 Age limit: 37 yrs			
DSSD-2304 (OBC)	11	Scientist No of posts: 03 Age limit: 35 yrs			
DSSD-2305 (EWS)	11	Scientist No of posts: 02 Age limit: 32 yrs			
DSSD-2306 (OBC-PwBD – Deaf & Hard of Hearing)	11	Scientist No of posts: 01 Age limit: 45 yrs			
<b>Category-2: 05 Posts for Earth and Engineering Science</b>					
EESD- 2301 (UR)	11	Scientist No of posts: 01 Age limit: 32 yrs	ME / M.Tech. in Oceanography/ Marine Science/Climate Science/Environmental Engineering/ Atmospheric Science/ Applied mathematics  <b>OR</b> Ph.D. in (Sciences/Engineering) [submitted] in physical	<b>A career with first class from 10<sup>th</sup>/SSLC onwards along with the following:</b>  The essential qualification of Master Degree is preceded with a Bachelors Degree in disciplines related to ocean and atmospheric sciences and one year research experience in data driven approaches such as AI & ML	To work on AI & ML intervention to Earth System modelling in highly specialized areas of
EESD- 2302 (OBC)	11	Scientist No of posts: 01 Age limit: 35 yrs			

EESD- 2303 (SC)	11	Scientist No of posts: 01 Age limit: 37 yrs	Oceanography/ Marine Science/ Climate Science/ Atmospheric Science/ Environmental Science/ Applied mathematics	<b>OR</b>  The essential qualification of Ph.D. in Science <b>(submitted)</b> preceded with master degree in Oceanography/ Marine Science Climate Science/Atmospheric Science/ Applied Mathematics and the research carried out during Ph.D. are related to data driven approaches such as AI & ML	Oceanographic processes/ Weather and Climate modelling/ Climate Change/ Climate Impact.
EESD-2304 (ST)	11	Scientist No of posts: 01 Age limit: 37 yrs	M.E./M.Tech. in Geophysics/ Earthquake Engineering/ Geotechnical Engineering/ Geo informatics	<b>A career with first class from 10<sup>th</sup>/SSLC onwards along with the following</b>  The essential qualification of Master degree is preceded with a Bachelors degree in disciplines related to Solid Earth and one year research experience in data driven approaches such as AI & ML related to GNSS based Geoscience Studies/ Computational Seismology/ Earthquake Engineering	To work on AI & ML intervention to Earth System modelling in highly specialized areas of GNSS & Broadband Seismic data processing and analysis.
EESD- 2305 (UR)	11	Scientist No of posts: 01 Age limit: 32 yrs	<b>OR</b>  Ph.D. in (Science/Engineering) <b>[submitted]</b> in Geophysics/ Earthquake Engineering/ Geotechnical/ Geo informatics/ Physical Sciences/ Mathematical and Information Sciences	<b>OR</b>  The essential qualification of Ph.D. in Science/ Engineering <b>(submitted)</b> preceded with Master Degree in disciplines related to Solid Earth and the research carried out during Ph.D. should be related to GNSS based Geoscience studies/Computational Seismology/Earthquake Engineering (Preferably using data driven approaches such as AI & ML)	

**Abbreviations:** UR: Unreserved; SC: Scheduled Caste; ST: Scheduled Tribe; OBC: Other Backward Class; PwBD: Persons with Benchmark Disability; EWS: Economically Weaker Section

Apart from qualifications indicated above, any other recognized qualification, which is equivalent to the prescribed qualification, shall be treated at par with that qualification. However, the candidate needs to provide the necessary document prescribed in **Clause 2.h** to claim equivalence. For equivalence of foreign degree please refer to **Clause 2.i**.

## **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, Children Education Allowances, Leave Travel Concession and House Building Advance, etc., are available as per CSIR Rules.
- c. CSIR provides opportunities for career advancement under Assessment Promotion scheme for Scientists on the basis of Flexible Complementing Scheme of CSIR.
- d. Exceptionally meritorious and deserving candidates may be considered for higher initial pay by the Competent Authority as per CSIR Rules.
- e. Scientists in CSIR-4PI 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 are also available for foreign deputations for training/presentations of papers/specific assignments etc.

### **2. Other Conditions:**

- a. The applicant must be a Citizen of India.
- b. The appointment will be in the CSIR Fourth Paradigm Institute (CSIR-4PI), Bengaluru, under the Council of Scientific & Industrial Research (CSIR) which is an Autonomous Body under Ministry of Science & Technology. However, the appointees are liable to be posted in any of the Labs/Institutes/Regional Centres of CSIR/ CSIR-4PI situated anywhere in India as and when required.
- c. 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, i.e., 25.01.2024**. 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 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.
- d. 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. In case of no clarity about converting into percentage, Screening Committee will adopt its own criteria to convert CGPA/SGPA/OGPA to percentage for shortlisting of candidates.
- e. Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/notification. Candidates who have submitted their Ph.D. thesis (not awarded yet) should provide a thesis submission certificate from the Competent Authority (not the Ph.D. guide) of the Institute where the Ph.D. is submitted stating the date of submission and the title of the thesis. It is desirable for the candidate to provide a short writeup on the Ph.D. work to ascertain the relevance to the desired areas as mentioned against each position. In absence of this information, the Screening Committee will judge the relevance from the title of the thesis.
- f. Candidates applying for more than one post should submit separate online application form for each post indicating the category and post code along with the prescribed application fee and copies of all the marks cards & certificates (10<sup>th</sup>/SSLC onwards) along with testimonials (if any) separately for each post.
- g. The application should be accompanied by self-attested copies of the relevant educational qualification (10<sup>th</sup>/SSLC onwards), 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**.
- h. 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 a valid document in this regard, indicating the Authority (with number and date) under which it has been so treated. In absence of such document, the Screening Committee reserves the right to reject the equivalence claim leading to rejection of the application.

- i. In case the essential qualification is obtained from a foreign university/institution, the equivalence will be strictly decided by the policies & procedure for equivalence of qualification/degrees by the Authorized Institute in India to give such equivalence.
- j. The period of experience rendered by a candidate on part time basis, daily wages, visiting/ guest faculty etc will not be counted while calculating the valid experience for short listing the candidates to be called for interview.
- k. 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.
- l. The date for determining the upper age limit, qualifications and /or experience shall be the closing date prescribed for receipt of online applications. The candidate should upload one of the following documents as the proof of age:
  - (a) 10<sup>th</sup>/SSLC certificate/marks card clearly mentioning the date of birth.
  - (b) Where date of birth is not available in certificates/marksheets issued by the concerned educational board, school leaving certificate or copy of school register, from where he/she has done matriculation, duly attested by the principal/head of the school, mentioning the date of birth should be provided.
- m. 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 for the particular post code.
- n. Persons with Benchmark Disabilities-PwBD (Divyangjan) fulfilling the eligibility conditions prescribed under GoI instructions are encouraged to apply.
- o. In case a candidate is staying abroad, his/her candidature may be considered *in absentia* or through video conference by the Selection Committee on his/her written request depending upon the then circumstances.
- p. Application from the candidates working in CSIR, Govt. Departments and Public Sector Undertaking will be considered only if forwarded through proper channel, with a clear certificate that there is no vigilance case pending/being contemplated against him/her and that the applicant, if selected, will be relieved within one month of the receipt of the offer of appointment. However, advance copy of the application may be submitted before the closing date. Applications routed through proper channel should reach "**The Head, CSIR-Fourth Paradigm Institute, (CSIR-4PI), NWTC Road, NAL Belur Campus, Bengaluru-560037**" within 15 days (It should be available at the time of screening of the applications) after the last date of receipt of application form in hard copy.
- q. 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 Bangalore City Railway Station on production of Rail Tickets/Rail Ticket Numbers or any other proof of journey.
- r. 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.
- s. CSIR-4PI reserves the right not to fill up a particular post or all the posts, if it so desires. The number of vacancies indicated above may vary at the time of actual selection.
- t. The selected candidates will be on probation for a period of one year from the date of taking over charge of the post. The probationary period may be extended or curtailed at the discretion of the Competent Authority. After successful completion of probationary period, they will be considered for confirmation in accordance with the extant rules.
- u. The decision of the Competent Authority **CSIR-4PI, Bengaluru** in all matters relating to eligibility, acceptance or rejection of applications, mode of selection, conduct of examination/interview will be final and binding on all the candidates.
- v. Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post
- w. NO INTERIM ENQUIRY OR CORRESPONDANCE WILL BE ENTERTAINED.

### **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 caste/category certificate in the prescribed format as applicable for services under Government of India.
- 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.
- c. As per GOI provisions, age relaxation for Widows, Divorced Women and Women Judicially separated from Spouse who are not remarried, the upper age limit is relaxable up to the age of 35 years (up to 40 years for members of

Scheduled Castes/Scheduled Tribes and up to 38 years for members belonging to the Other Backward Classes in respect of the posts reserved for them). The persons claiming age relaxation under this sub-para would be required to produce following documentary evidence:

- i) In case of Widow, Death Certificate of her husband together with the Affidavit that she has not remarried since.
  - 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.
- d. Age relaxation to Persons with Benchmark Disabilities (Divyangjan) is permissible as per GOI orders issued from time to time i.e., Upper age limit is relaxable up to 10 years (15 years for SCs, STs, and 13 years for OBCs). 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 post to be filled by Direct Recruitment by Selection.
- e. Any other age relaxation shall be applicable as per extant Gol/ CSIR Recruitment Rules.
- f. 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.
- g. SC/ST/OBC/PwBD/EWS candidates are required to mandatorily attach the self - attested copy of relevant caste/category certificate in the prescribed format as applicable for services under Government of India, along with the application (Online as well as hardcopy). The original of the same will have to be produced at the time of Personal Interview. Applications without these certificates will be considered incomplete and the benefit of relaxation will not be available to the candidate.

#### **4. How to apply:**

- a. Eligible candidates are required to apply ONLINE only through the website of this Institute, i.e., [www.csir4pi.in](http://www.csir4pi.in).
- b. If the candidate does not have a valid email-id, he/she should create a new valid email-id before applying online.
- c. **Online Application window will be opened on 23.12.2023 from 09:30 AM up to 25.01.2024 till 05:30 PM on CSIR-4PI website i.e., [www.csir4pi.in](http://www.csir4pi.in).**
- d. Candidates are required to pay non-refundable application fee of Rs.500/- (Rupees Five hundred only) for each application payable separately for each post. The candidates belonging to SC/ST/PwBD category is exempted from submission of application fee. Women applicants, CSIR Employees and Abroad Candidates are also exempted from submission of application fee. Applications without application fees other than the exempted categories will be summarily rejected.
- e. Successful online application is indicated by the page displayed after clicking **Submit Button** indicating the generated **"APPLICATION NUMBER"**. Please note down the same carefully and preserve it. If you do not preserve it, you will not be able to re-print the application. The candidates are advised to keep a soft/hard copy of the application for their reference and future use.
- f. **Before applying, candidates are advised to check their eligibility for all the post codes. Accordingly, they should select at once all the post codes for which they are eligible and interested to apply, to avoid any technical difficulty in later stage.**
- g. Candidates applying for more than one post must submit separate application form for each post indicating the Post Code.
- h. Application once submitted 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. **SUBMISSION OF HARDCOPY OF APPLICATION:** After submission of application/s through online mode, all the candidates are required to send the hardcopy of the application along with the self-attested copies of the relevant educational qualifications, experience and testimonials, etc by post to **"The Head, CSIR-Fourth Paradigm Institute (CSIR-4PI), NWTC Road, NAL Belur Campus, Yemlur Post, Bengaluru-560037"**. Candidates are also required to affix a recent passport size photograph on the top of the application and to sign across the same. The hardcopy of the application/s should reach this office **on or before 09.02.2024 till 04:30 P.M.** The online applications of the

candidates may not be considered, if he/she fails to submit the hard copy of the application along with the requisite documents within the stipulated date and time to the address as mentioned above.

- j. 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 the Competent Authority, CSIR-Fourth Paradigm Institute (CSIR-4PI), Bengaluru.
- k. Incomplete online applications (i.e., without photograph, unsigned, without application fee, requisite certificates, testimonials, etc.) will not be entertained and will be summarily rejected.
- l. Screening results (both recommended and not recommended along with the reason) and the screening criteria adopted by the Screening Committee will be published online at CSIR-4PI website, i.e., [www.csir4pi.in](http://www.csir4pi.in) only. Candidates are advised to check the CSIR-4PI website regularly for updates as no one-to-one communication will be made to the candidates in this regard.

**5. Candidates should ensure that the SELF-ATTESTED COPIES of the following documents must be uploaded/ attached along with online/ hardcopy application form in the following order:**

- a. Acknowledgement of remitted application fee, wherever applicable.
- b. Date of Birth certificate, i.e., SSLC/Matriculation/ 10<sup>th</sup> class certificate or marksheet bearing date of birth of the candidate (please see clause 2.I for valid documents).
- c. Identity card issued by the Govt. Authorities, i.e., Aadhar card/ Voter ID card/ Pan card/ Passport.
- d. All certificates pertaining to educational qualifications (10<sup>th</sup>/SSLC onwards).
- e. List of publications/ research papers and attested copies/reprints of such publications/ research papers.
- f. Experience certificates, if any.
- g. Valid caste/ category certificate (in case of SC/ ST/ OBC/ EWS/ PwBD/ Women seeking relaxation/ Ex-Serviceman candidates) in the appropriate proforma prescribed by the Government of India from time to time.
- h. The Medical certificate (in case of Persons with Benchmark Disability candidates) from the prescribed authority in the format as applicable for services under Government of India.
- i. Coloured photograph (to be pasted and signed across in full on the hardcopy).
- j. Any other applicable certificate, if any.

