

भारतीय उष्णदेशीय मौसम विज्ञान संस्थान (आईआईटीएम)  
डॉ. होमी भाभा मार्ग, पाषाण, पुणे 41108  
विज्ञापन सं. कार्मिक/02/2019



**पूर्णतया लघु अवधि अनुबंध आधार पर परियोजना वैज्ञानिक, कनिष्ठ वैज्ञानिक सहायक की भर्ती**

भारतीय उष्णदेशीय मौसम विज्ञान संस्थान) आईआईटीएम (पृथ्वी विज्ञान मंत्रालय, नई दिल्ली द्वारा पूर्णतः निधिकृत एक स्वायत्त अनुसंधान संगठन है। यह उष्णकटबंधीय मौसमविज्ञान पर बल देते हुए वायुमंडलीय विज्ञान, विशेष रूप से जलवायु परिवर्तन और भारतीय मानसून के विभिन्न पहलुओं में अनुसंधान हेतु समर्पित, राष्ट्रीय एवं अंतर्राष्ट्रीय ख्याति प्राप्त यह एक प्रमुख संस्थान है।

निम्नलिखित पदों की भर्ती का प्रस्ताव है, जिसका विवरण निम्नवत् है :

क्रम सं.	पद का नाम	परिलब्धियाँ	कुल पद	अधिकतम आयु
1.	परियोजना वैज्ञानिक डी	रु 68,000/-, तथा मकान किराया भत्ता	07	50 वर्ष
2.	परियोजना वैज्ञानिक सी	रु 58,000/-, तथा मकान किराया भत्ता	10	40 वर्ष
3.	कनिष्ठ वैज्ञानिक सहायक	रु 29,200/- + तथा मकान किराया भत्ता	1	30 वर्ष

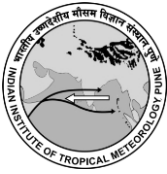
नियुक्ति प्रारंभ में पूर्णतया अस्थायी एवं अनुबंध आधार पर केवल एक वर्ष की अवधि के लिए है।

अनुसूचित जाति/अनुसूचित जनजाति, अन्य पिछड़ा वर्ग, शारीरिक रूप से विकलांग/भूतपूर्व सैनिकों के लिए भारत सरकार के नियमानुसार ऊपरी आयु सीमा में छूट दी जाएगी।

इच्छुक उम्मीदवार अपने आवेदन सीवी के साथ केवल ऑनलाइन <http://www.tropment.res.in/Careers> पर प्रस्तुत करें।

आवेदन की हार्ड कॉपी स्वीकार नहीं की जाएगी।

ऑनलाइन आवेदन प्रस्तुत करने की सुविधा दिनांक 08 फरवरी 2019 (15.00) बजे को प्रारंभ होगी और दिनांक 28 फरवरी 2019 (17.00) बजे को बंद हो जाएगी।



INDIAN INSTITUTE OF TROPICAL METEOROLOGY (IITM),  
Dr. Homi Bhabha Road, Pashan, Pune-411008

ADVERTISEMENT NO. PER/02/2019



**RECRUITMENT OF PROJECT SCIENTISTS & JUNIOR SCIENTIFIC ASSISTANT**  
**PURELY ON SHORT TERM CONTRACT BASIS**

The Indian Institute of Tropical Meteorology (IITM) is an autonomous research organization fully funded by Ministry of Earth Sciences, New Delhi. It is a premier Institute of national and international repute, devoted to research in various aspects of atmospheric sciences with emphasis on tropical meteorology, particularly on the Climate Change and Indian Monsoon.

It is proposed to recruit for the following posts as detailed below:

Sr. No.	Name of the post	Emoluments	Total Posts	Max. Age
1.	Project Scientist D	Rs. 68,000/- + HRA	07	50 years
2.	Project Scientist C	Rs. 58,000/- + HRA	10	40 years
3.	Junior Scientific Assistant	Rs. 29,200/- + HRA	01	30 years

The appointment is purely on temporary on contractual basis for a period of one year only.

Upper age limit is relaxed for SC/ST, OBC, Physical handicapped/ ex-servicemen as per Government of India norms.

**Aspiring candidates may submit their applications along with their CV online only:**

<http://www.tropmet.res.in/Careers>

**Hard copy of the applications will not be accepted.**

**Other relevant details about the posts are available under [www.tropmet.res.in/Careers](http://www.tropmet.res.in/Careers)**

**Facility for submitting online applications will commence on 08<sup>th</sup> February 2019 (15:00 hours) and close on 28<sup>th</sup> February 2019 (17.00 hrs).**

**INSTRUCTIONS**

1. The last date of submission of online application is 28<sup>th</sup> February 2019. The last date is the cut of date for all purposes including age/qualification/experience etc.
2. Only Indian Nationals are eligible to apply.
3. Mere possession of required qualification will not entitle the candidates to be selected for interview. If the number of applications received in response to advertisement is large, it will not be convenient or possible for the selection Board to interview or conduct written test for all those candidates. So, the centre may restrict the number of candidates to be called for interview/ written test to a reasonable limit of desirable qualification and/or on the record of academic performance and/or relevant experience for the post prescribed in the advertisement as per the specific requirement of the centre and/or any other benchmark decided by a committee constituted to screen the applications. No correspondence will be entertained with candidates who are not called for Interview/written examination.
4. **Age limit**

For the post of Scientist – D	50 years
For the post of Scientist – C	40 years
For the post of Scientist – B	35 years

  - Upper age limit is relaxed for SC/ST/ OBC/Physically Handicapped persons/Ex-servicemen as per Government of India norms.
5. Experience shall mean the experience in the relevant field acquired from Government/ Semi Govt. / PSU/ Autonomous/ Research/ Reputed Organization after obtaining the minimum educational qualification asked for in the said category.  
Experience claim should be supported by valid documentation.

6. The selection for the posts of Junior Scientific Assistant shall be on the basis of performance of the screened in candidates in the written test. And for the remaining posts selection will be on the basis of performance of the screened in candidates, in the interview.
7. Candidates must produce all original documents as proof of details furnished in the application and photocopy of each, at the time of interview for verification. Any discrepancies found in the certificate will attract the disqualification of applications. Non production of the original certificates at the time of interview/ written test will also make the candidate disqualified.
8. Selected candidate may have to join the post immediately, on being found fit by Medical Authority.
9. Essential qualification, experience and age limit can be relaxed at the discretion of the appointing authority in exceptional cases.
10. Director, IITM reserves the right to fill-up or not to fill up the post advertised without assigning any reasons thereof.
11. Minimum of 60% marks in the qualifying degree level are required to be eligible for the Scientific posts mentioned.
12. Doctorate Degree will count as 3 years of experience
13. M.Tech. degree will be counted as 1 year experience
14. No TA/DA will be paid for attending the interview/written examination. For SC/ST candidates admissible TA/DA shall be considered as per Government of India orders.
15. CGPA grading is to be converted in the percentage.
16. Total number of posts may vary.

**Post Code - HPC-2019-001**

**Post Name - Project Scientist - D (For High Performance Computing Program) No. of posts - 5 Nos.**

**Essential Qualification:**

Master's degree in Physics / Chemistry / Mathematics / Geophysics / Geochemistry / Geology / Oceanography / Atmospheric Sciences / Meteorology / Seismology / Computer Applications / Computer Engineering / Computer Technology / Computer Science / Information Technology with at least first class (60% (or equivalent CGPA)) at graduation as well as Post graduation level

**or**

Bachelor's degree in Engineering or Technology in Computer Science / Information Technology / Electronics and Telecommunication from a recognized University or its equivalent with at least first class (60% mark (or equivalent CGPA))

- A minimum of 07 years of Post qualification working experience in High Performance Computing Systems technologies & administration with its related software's/ applications, particularly earth science applications.

**Desirable Qualification:**

- Ph.D. in the above subjects would be a desirable qualification.
- Experience in development of system software's, tools and applications used in high performance computing environment would be desirable.
- Proven Experience and certifications in HPC Systems platforms like parallel file system, job scheduler, HSM, linux cluster-environments and managements tools is desirable.
- Experience in using Programming languages (like FORTRAN-90, C/C++ etc.), Shell scripting; Meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc.)
- Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB etc.
- Proven experience in application of Machine Learning and Artificial Intelligence is highly desirable.
- Working experience in parallel numerical methods and algorithms, discretization of differential equations and domain decomposition is an added advantage.
- Experience in model development is desirable.
- Experience/knowledge of hybrid programming (GPU + CPU) is desirable.
- Ability to work in large groups.
- Knowledge of HPC Systems Administration would be an added advantage.

**Job Responsibilities:**

To work in development and troubleshooting of various HPC applications related issues of earth science system.

<p><b>Post Code HPC2019-002</b></p> <p><b>Post Name - Project Scientist – C (For High Performance Computing Program) No. of posts - 1 Nos.</b></p> <p><b>Essential Qualification:</b>  Master’s degree in Physics / Chemistry / Mathematics/ Geophysics / Geochemistry / Geology / Oceanography/ Atmospheric Sciences / Meteorology / Seismology / Computer Applications / Computer Engineering / Computer Technology / Computer Science / Information Technology with at least first class (60% (or equivalent CGPA)) at graduation as well as Post graduation level  <b>or</b>  Bachelor’s degree in Engineering or Technology in Computer Science / Information Technology / Electronics and Telecommunication from a recognized University or its equivalent with at least first class (60% mark (or equivalent CGPA))  A minimum of 03 years of Post qualification working experience in High Performance Computing Systems, handling large scale weather forecasting model including debugging and profiling.</p> <p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>• Ph.D. in the above subjects would be a desirable qualification.</li> <li>• Experience in code development for CFD problems.</li> <li>• Proven experience in parallel programming, shell script, performance analysis and optimization is desirable.</li> <li>• Experience in code benchmarking is an added advantage.</li> <li>• Good experience in handling HPC related software and tools are desirable.</li> <li>• Ability to work in large groups.</li> <li>• Knowledge of HPC Systems Administration would be an added advantage.</li> </ul> <p><b>Job Responsibilities:</b>  To work in development and troubleshooting of various HPC related issues elated issues of earth science system.</p>
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<p><b>Post Code – NMM2019-001</b></p> <p><b>Post Name - Project Scientist – D ( 2 post) (Seasonal Prediction of Monsoon), No. of Posts – 2 Nos.</b></p> <p><b>Essential Qualification:</b></p> <ul style="list-style-type: none"> <li>• M.Tech. (Atmospheric Science/ Climate Science/ Earth Science System and Technology/ Environmental Sciences) with at least 60% marks from recognized University / Institute</li> </ul> <p><b>OR</b></p> <p>Masters degree in Physics/Mathematics/ Atmospheric Sciences/ Environmental Sciences / Geophysics (Meteorology) with at least 60% marks from recognized University / Institute</p> <ul style="list-style-type: none"> <li>• Minimum 7 years of Post qualification working experience in Atmospheric regional/global modeling as evidenced by publications.</li> </ul> <p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>• Ph.D in any of the above subjects would be a desirable qualification.</li> <li>• Working knowledge of Atmospheric, Oceanic and Coupled General Circulation Models and issue related to porting, installation and troubleshooting of dynamical models.</li> <li>• Experience in using programing languages (like FORTRAN-90, C/C++ etc); Shell scripting; Meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc).</li> <li>• Knowledge of parallel computing and porting general circulation models on the high performance computer architectures.</li> <li>• Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB, GrADS etc.</li> <li>• Ability to work in large groups.</li> <li>• Knowledge of UNIX/LINUX System Administration would be an added advantage.</li> </ul> <p><b>Job Responsibilities:</b>  Scientists will be responsible for handling the model codes, its debugging, parameterization of processes in the coupled models etc. for prediction purpose.</p>
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<p><b>Post Code - NMM2019-002</b>  <b>Post Name - Project Scientist - C (2 posts) (For Application development for Agriculture and hydrology)</b></p>
<p><b>Essential Qualification:</b></p> <ul style="list-style-type: none"> <li>• Masters Degree with at least 60% of marks in Meteorology/ Oceanography/ Atmospheric Sciences/ Physics/ Geophysics (Meteorology) / Hydrology/ Agriculture/ from a recognized university/institute.</li> <li>• A minimum of 3 years of Post qualification working experience in Atmospheric Science/Oceanography/Climate Sciences or allied fields as evidenced by publications.</li> </ul>
<p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>• Ph.D. in any of the above subjects would be a desirable qualification.</li> <li>• A good understanding about the role and usefulness of climate services in agriculture. The experience should be demonstrated through scientific reports/publications.</li> <li>• Knowledge in GIS and spatial application skill</li> <li>• Knowledge in programming languages (like FORTRAN-90, C/C++ etc); Shell scripting and meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc).</li> <li>• Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB, GrADS etc.</li> <li>• Ability to work in large groups.</li> <li>• A good writing and communicating skill is needed.</li> <li>• Knowledge of UNIX/LINUX System Administration would be an added advantage.</li> </ul>
<p><b>Job Responsibilities:</b>  Scientist will be responsible for developing application for the use of agricultural and hydrology purposes.</p>

<p><b>Post Code - NMM2019-003</b>  <b>Post Name - Project Scientist - C (2 posts) (For Model Development and Analysis)</b></p>
<p><b>Essential Qualification:</b></p> <ul style="list-style-type: none"> <li>• B.E./B.Tech. or M. Sc. with at least 60% of marks in Meteorology/ Oceanography/ Atmospheric Sciences/ Physics/ Geophysics (Meteorology) / Mathematics or equivalent from a recognized university/institute</li> <li>• A minimum of 3 years of Post qualification working experience in Atmospheric Science / Oceanography / Climate Sciences/ or allied fields as evidenced by publications.</li> <li>• Basic knowledge in model code handling of different atmospheric processes and their representation in general circulation models.</li> <li>• Conversant in high-level programming languages FORTRAN and C.</li> <li>• Good experience in Statistical Analysis, Data analysis tools viz., MATLAB, GrADS, IDL, NCL, Ferret, R software, GIS tools.</li> </ul>
<p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>• Ph.D. in any of the above subjects would be a desirable qualification.</li> <li>• Working knowledge of Atmospheric, Oceanic and coupled General Circulation Models and issue related.</li> <li>• Experience in using programming languages (like FORTRAN-90, C/C++ ETC); Shell scripting, Meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc).</li> <li>• Knowledge of parallel computing and porting general circulation models on the high performance computer architectures.</li> <li>• Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB etc.</li> <li>• Ability to work in large groups.</li> <li>• Knowledge of UNIX/LINUX System Administration would be an added advantage.</li> </ul>
<p><b>Job Responsibilities:</b>  Scientists will be responsible for handling the model codes, its debugging, parameterization of processes in the coupled models etc for prediction purpose.</p>

<p><b>Post Code – NMM2019-004</b>  <b>Post Name - Project Scientist – C ( 2 posts) (For Development of High Resolution Global Ensemble Forecast)</b></p>
<p><b>Essential Qualification:</b></p> <ul style="list-style-type: none"> <li>• A Masters Degree with at least 60% of marks in Atmospheric Science/ Meteorology/ Oceanography/ Physics/ Geophysics (Meteorology) from a recognized University/ Institution.</li> <li>• A minimum of 3 years of Post qualification working experience in Atmospheric and or Oceanic Sciences as evidenced by published papers.</li> </ul>
<p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>• Ph.D. in any of the above subjects</li> <li>• Research Experience supported by peer reviewed publications in good impact journals would be an added advantage.</li> <li>• Working knowledge of Atmospheric General Circulation Models.</li> <li>• Experience in using Programming languages (like FORTRAN-90, C/C++ etc.), Shell scripting,;</li> <li>• Meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc.)</li> <li>• Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB etc.</li> <li>• Ability to work in large groups.</li> <li>• Knowledge of UNIX/LINUX System Administration would be an added advantage.</li> <li>• The Selected candidates have to work on improvement of high resolution GEFS short range forecast.</li> </ul>
<p><b>Job Responsibilities:</b>  The Selected candidates have to work on the implementation/improvement/configuration of short range prediction using high resolution Global Ensemble Forecast System (GEFS)</p>

<p><b>Post Code – CCCR-2019-001</b>  <b>Post Name - Project Scientist –C ( 3 posts) (For GOTHAM Project, For Analysis &amp; Modelling and for Development of Future Climate Scenario Report ( 1 post each)</b></p>
<p><b>Essential Qualification:</b></p> <ul style="list-style-type: none"> <li>• A First Class (60% of marks) Masters degree (M.Sc/M.Sc-Tech/M.Tech) in Atmospheric Sciences/Meteorology/Oceanography (<b>or</b>) in Physics/Geophysics/Mathematics with meteorology or fluid dynamics as one of the subjects from a recognized university/Institute with a minimum of 3 years of Post qualification working experience in Atmospheric and or Oceanic Sciences as evidenced by published papers.</li> <li>• Working knowledge in HPC and experience with operating systems UNIX/LINUX and Windows environment</li> <li>• Conversant in high-level programming languages FORTRAN and C.</li> <li>• Very good experience with a few or more data analysis tools viz., MATLAB, GraDS, IDL, NCL, Ferret, and R software. Additional knowledge of GIS is an advantage.</li> <li>• Good written and oral communication skills</li> </ul>
<p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>• Ph.D. in any of the above subjects would be a desirable qualification and research Experience supported by publications in good impact journals would be an added advantage.</li> <li>• Familiarity with governing dynamical processes associated with weather and climate.</li> <li>• Familiarity with weather and climate modeling/work experience in numerical modeling of ocean/atmosphere general circulation features</li> <li>• Ability to work with large datasets and analyze climate model outputs</li> <li>• Ability to design and conduct coupled general circulation model experiments on super-computing platforms.</li> </ul>
<p><b>Job Responsibilities:</b>  The selected candidate will involve configuring, executing and analyzing climate model simulations in addition to observational analysis and development of analytical models to investigate climate and monsoon research problems relevant to the GOTHAM proposal. The selected candidate should interact with GOTHAM partner Institutions, display ability towards development and maintenance of databases, and publish the scientific merits of the work in peer-reviewed journals.</p>

**Post Code – CCCR2019-002**

**Post Name- Junior Scientific Assistant (1 post) (For Metflux Project)**

**Essential Qualification:**

- M.Sc. (Physics/ Meteorology / Geophysics/ Atmospheric Sciences / Environmental Sciences / Statistics) from recognized University / Institution with minimum 60% marks.

**Desirable Qualification:**

- Knowledge of operating Atmospheric Instrumentation/ sensors, maintenance of data acquisition .
- Working knowledge of data management and analysis.
- Experience in scientific administration and supervision.

**Job Responsibilities:**

- The selected candidate is required to perform stable isotopic and statistical analysis of water, tree ring and carbonate samples.
- The selected candidate needs to participate in field expeditions for collection of samples.
- The selected candidate will participate in the research project in order to develop high resolution climate records.