

**EARTH SYSTEM SCIENCE ORGANIZATION (ESSO),  
MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA  
INDIAN INSTITUTE OF TROPICAL METEOROLOGY (IITM),  
Dr. Homi Bhabha Road, Pashan, Pune-411008  
Advertisement No. PER/07/2015**

**RECRUITMENT PROJECT SCIENTISTS  
PURELY ON TEMPORARY AND 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 has state-of-the-art advanced infrastructural facilities like High Performance Computer (HPC) systems with 790 TF compute and 6 PB of Storage, state-of-the-art technical IT, Networking, Security & Storage Infrastructures.

It is proposed to recruit following posts purely on temporary and contract basis for various Research Projects for the period of **one year**.

<b>Post Code - HPC2015-003</b>
<b>Post Name - Project Scientist - D (For High Performance Computing Program) No. of posts - 3 Nos.</b>
<b>Essential Qualification:</b> A First class Masters Degree or equivalent in Computer Science, Computer Applications or Information Technology from a recognized University/ Institution or a First class Bachelors degree in Engineering or Technology in Computer Science or Information Technology. <ul style="list-style-type: none"><li>• A minimum of 07 years of Post qualification working experience in High Performance Computing Systems, technologies and its related software's/ applications.</li></ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"><li>• Ph.D. in the above subjects would be a desirable qualification.</li><li>• Experience in development of system software's, tools and applications used in high performance computing environment would be desirable.</li><li>• Proven Experience and certifications in HPC Systems platforms like Tivoli, LFS, GPFS, HSM, linux cluster-environments and managements tools is desirable.</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>• 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 HPC Systems Administration would be an added advantage.</li></ul>
<b>Job Responsibilities:</b> To work in development and troubleshooting of various HPC applications related issues.
<b>Salary - (₹15,600-39,100) + G.P. ₹ 7,600/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 73,455/-)</b>
<b>Upper Age Limit: Up to 50 years as on 30.10.2015</b>

<b>Post Code - NMM2015-001</b>
<b>Post Name - Project Scientist - C (For National Monsoon Mission) No. of post - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree or equivalent in Atmospheric Science/ Meteorology/ Oceanography/ Physics/ Geophysics/ Mathematics from a recognized University/ Institution with at least 60% marks at Post Graduation.</li> <li>• A minimum of 5 years of experience of research (after Master's degree) in Atmospheric and or Oceanic Sciences as evidenced by published papers.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Ph.D. in any of the above subjects would be a desirable qualification.</li> <li>• Research Experience supported by publications in good impact journals would be an added advantage.</li> <li>• Working knowledge of Atmospheric, Oceanic and Coupled General Circulation Models.</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>• 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 candidate has to work on the improvement of prediction of seasonal mean monsoon of Indian summer monsoon using CFS model framework.</li> </ul>
<b>Job Responsibilities:</b> The Selected candidate has to work on the improvement of prediction of seasonal mean monsoon of Indian summer monsoon using CFS model framework.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 6,600/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 63,121/-)
<b>Upper Age Limit:</b> Up to 40 years as on 30.10.2015

<b>Post Code - NMM2015-002</b>
<b>Post Name - Project Scientist-C (For National Monsoon Mission) No. of post - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree or equivalent in Atmospheric Science/ Meteorology/ Oceanography/ Physics/ Geophysics/ Mathematics from a recognized University/ Institution with at least 60% marks at Post Graduation.</li> <li>• A minimum of 5 years of experience of research (after Master's degree) in Atmospheric and or Oceanic Sciences as evidenced by published papers.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Ph.D. in any of the above subjects would be a desirable qualification.</li> <li>• Research Experience supported by publications in good impact journals would be an added advantage.</li> </ul>
<b>Job Responsibilities:</b> The Selected candidate has to work on the improvement of prediction of active/break spells of Indian summer monsoon using CFS model framework.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 6,600/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 63,121/-)
<b>Upper Age Limit:</b> Up to 40 years as on 30.10.2015

<b>Post Code - NMM2015-003</b>
<b>Post Name - Project Scientist-B (For National Monsoon Mission) No. of post - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree or equivalent in Atmospheric Science/ Meteorology/ Oceanography/ Physics/ Geophysics/ Mathematics from a recognized University/ Institution with at least 60% marks at Post Graduation.</li> <li>• A minimum of 3 years of experience of research (after Master's degree) in Atmospheric and or Oceanic Sciences or allied fields.</li> </ul>
<b>Desirable Qualification:</b> <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 Programming languages (like FORTRAN-90, C/C++ etc.), Shell scripting; 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 candidate has to work on the improvement of prediction of seasonal mean monsoon of Indian summer monsoon using CFS model framework.</li> </ul>
<b>Job Responsibilities:</b> The Selected candidate has to work on the improvement of prediction of seasonal mean monsoon of Indian summer monsoon using CFS model framework.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code - NMM2015-004</b>
<b>Post Name - Project Scientist-B (For National Monsoon Mission) No. of post - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree or equivalent in Atmospheric Science/ Meteorology/ Oceanography/ Physics/ Geophysics/ Mathematics from a recognized University/ Institution with at least 60% marks at Post Graduation.</li> <li>• A minimum of 3 years of experience of research (after Master's degree) in Atmospheric and or Oceanic Sciences or allied fields.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Work Experience in atmospheric measurement techniques and retrievals (both in-situ and remote sensing based), data handling, coding, graphical representations, and interpretations. Knowledge in using scientific programming languages such as FORTRAN, C, etc and analysis softwares used in atmospheric sciences such as MATLAB, GrADS, FERRET, CDO, R etc., would be added advantages.</li> </ul>
<b>Job Responsibilities:</b> The selected candidate has to work on the NERC-MoES project.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code – CCCR2015-001</b>
<b>Post Name - Project Scientist – C (For Centre for Climate Change Research) No. of post - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree or equivalent in Atmospheric Science/ Meteorology/ Oceanography/ Physics/ Geophysics/ Mathematics from a recognized University/ Institution with at least 60% marks at Post Graduation.</li> <li>• A minimum of 3 years of experience in development of climate databases and the implementation of data management practices taking into account user requirements.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Working knowledge of hardware and software for management of High/Low end web-servers, database security and integration tools, interactive software for archival of climate data, climate database management and distribution using regional and global data grids.</li> <li>• Working knowledge of High Performance Computing and sound knowledge in using scientific programming languages such as FORTRAN, C, Python and analysis tools such as CDO, Grads, NCL, Ferret, R, GIS etc.</li> <li>• Work experience with various operating systems such as MS-Office, Unix, Linux etc.</li> </ul>
<b>Job Responsibilities:</b> To manage and maintain climate database and web-server, perform updates as required, user maintenance & troubleshooting, managing user registration, access to local database. Regular updates of website contents and participation in new web project.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 6,600/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 63,121/-)
<b>Upper Age Limit:</b> Up to 40 years as on 30.10.2015

<b>Post Code – CCCR2015-002</b>
<b>Post Name - Project Scientist – B (For Centre for Climate Change Research) No. of posts - 2 Nos.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree in (Computer/Computational Science, Computer Applications, Mathematics, Applied Mathematics, Statistics or equivalent) with at least 60% marks or degree in Engineering or Technology with at least 60% marks with a minimum 1 year of experience in climate data processing.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Working knowledge of Climate Database Management, including metadata maintenance, processing for storage and archival to database, performing quality control checks and dissemination for sharing with end users.</li> <li>• Working knowledge of High Performance Computing and sound knowledge in using scientific programming languages such as FORTRAN, C, Python and analysis tools such as CDO, Grads, NCL, Ferret, R, GIS etc.</li> <li>• Work experience with various operating systems such as MS-Office, Unix, Linux etc.</li> </ul>
<b>Job Responsibilities:</b> To process quality controlled climate data sets for local database. Also should be able to contribute effectively to prepare value added products focusing on user needs and for maintenance of climate data portal.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code - HACPL2015-001</b> <b>Post Name - Project Scientist - B (For High Altitude Cloud Physics Laboratory, Mahabaleshwar)</b> <b>No. of posts - 3 Nos.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• B.E./B.Tech/M.Sc. in Electronics/Electronics &amp; Telecommunication/Instrumentation Engineering with at least 60% marks.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Demonstrated experience in atmospheric instrumentation for aerosol, cloud physics and precipitation measuring systems. Demonstrated experience in conducting radiosonde flights.</li> <li>• Work experience with various operating systems such as Windows, Unix, Linux etc.</li> </ul>
<b>Job Responsibilities:</b> For operation and maintenance of several aerosols measuring instruments (such as aerosol spectrometers, nephelometer, aethalometer, EC/OC analyser, ACSM etc.) cloud physics equipments (CCN counter, cloud probes, microwave radiometric profiler etc.) Precipitation measuring systems (optical, impact and video disdrometers, Microrain radar and rainguage).
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A. (Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code -RADAR2015-001</b> <b>Post Name - Project Scientist - B (For RADAR sites) No. of posts - 2 Nos.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• B.E./B.Tech/M.Sc. in Electronics/Electronics &amp; Telecommunication/Instrumentation Engineering with at least 60% marks.</li> <li>•</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Demonstrated experience operation and maintenance of X- band and Ka-band Doppler weather radars.</li> <li>• Work experience with various operating systems such as Windows, Unix, Linux etc.</li> </ul>
<b>Job Responsibilities:</b> Operation and maintenance of Scanning Doppler weather radar systems for understanding precipitation and cloud formation processes. Maintenance of additional equipments such as microwave radiometric profiler and rain gauge network around radar coverage region.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A.(Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code –PDTC2015-001</b> <b>Post Name - Project Scientist – B (For Mesoscale studies)</b> <b>No. of posts - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• A Masters Degree in Atmospheric Science or Physics or Mathematics with at least 60% marks.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Demonstrated experience with simulation techniques such as Large Eddy Simulation, Mesoscale Models and Programming skills with FORTRAN, NCL and other analysis package.</li> </ul>
<b>Job Responsibilities:</b> The selected candidate need to work on the microphysical simulation of clouds observed during CAIPEEX field campaigns, in testing, tuning and modifying various parameterization options. The high resolution modelling studies will focus on explicit simulations and tuning mesoscale models for specific cloud types and associated processes. Basic approach will be large eddy simulation and the cloud resolving models.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A.(Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code –PDTC2015-002</b> <b>Post Name - Project Scientist – B (For CAIPEEX Field Program data)</b> <b>No. of posts - 2 Nos.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• B.E./B.Tech./M.Sc. in Electronics/Electronics &amp; Telecommunication/Instrumentation Engineering with at least 60% marks.</li> </ul> <b>OR</b> <ul style="list-style-type: none"> <li>• M.Tech. in Atmospheric Science with at least 60% marks.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• (If B.E./B.Tech./M.Sc.) Demonstrated experience in carrying out the quality checks of the data and develop metadata, archive data with proper documentation and data corrections. Experience in Handling the eddy covariance measurements, microwave radiometer and several surface instruments is required.</li> <li>• (If M.Tech. in Atmospheric Science) Analysis of Lidar data in combination with other satellite and radar data, analysis and correction of microwave radiometer data, wind profiler, wind lidar, aircraft observations etc.</li> </ul>
<b>Job Responsibilities:</b> 1. Job responsibilities will include analysis of various types of observations from instruments such as wind profiler, radiometer, radar and other surface based instruments used in the CAIPEEX campaigns. A good knowledge on the airborne observations of aerosol and cloud microphysics The exploration of data collected during the Integrated Ground Observational campaigns of CAIPEEX and development of data analysis for specific intercomparisons with data and process studies will be the major responsibility. Need to work in close association with the scientists involved in the simulations. 2. Job responsibilities include the management of several instruments during field campaigns, execution of calibration, trouble shooting in consultation with the scientists, Execution of correction procedures, documentation of daily records are also required. Basic job is in the operation of cloud physics and aerosol instruments and archiving and documentation of all scientific data from the field campaigns. Typical instruments used in CAIPEEX ground campaign are Wind profiler, Cloud condensation Nuclei Counter(CCN), Microwave Radiometer, Sodar, radiometers, disdrometers, radiosonde, gas analyzers, eddy covariance instruments etc. Extended field support is required during specialized intensive field campaigns and selected candidate is expected to participate and contribute to the field experiments and to the initial scientific checking of data, and may also involve in scientific investigations.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A.(Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

<b>Post Code –SAPCC2015-001</b> <b>Post Name - Project Scientist – B (For State Action Plan on Climate Change)</b> <b>No. of posts - 1 No.</b>
<b>Essential Qualification:</b> <ul style="list-style-type: none"> <li>• M.Sc. in Physics/Atmospheric Science/ RS-GIS/Geography with GIS) with at least 60% marks.</li> </ul>
<b>Desirable Qualification:</b> <ul style="list-style-type: none"> <li>• Working knowledge of operating systems like LINUX and Windows, programming languages such as FORTRAN, C and analysis and visualization software like GrADS, FERRET, CDO etc.</li> <li>• Experience in handling global gridded data sets. Well conversant with the statistical package R, experience in GIS.</li> </ul>
<b>Job Responsibilities:</b> Help State Government officials to extract, download and analyse global and regional climate model outputs. Prepare climate change profiles, plots and maps using CDO, GrADS and GIS.
<b>Salary</b> (₹15,600-39,100) + G.P. ₹ 5,400/- + D.A. + H.R.A.(Total monthly salary is approximately ₹ 52,290/-)
<b>Upper Age Limit:</b> Up to 35 years as on 30.10.2015

#### INSTRUCTIONS:

- 1) Only Indian Nationals are eligible and need to apply.
- 2) **Only online applications will be accepted.** Hard copy of the applications will not be accepted.
- 3) Upper age limit is relaxable by 5 years for SC/ST, 3 years for OBC, 10 years for physically handicapped persons and as per rule for ex-servicemen.
- 4) Mere possession of required qualification will not entitle the candidates to be called for interview.
- 5) Candidates called for interview will be paid sleeper class to & fro train fare by the shortest route on production of original tickets.
- 6) Desirable qualifications and experience can be relaxed at the discretion of the Director in case of exceptionally good candidates.
- 7) Experience shall mean the experience in the relevant field acquired from Government/Semi govt./Autonomous/Research/Reputed Organization after obtaining the minimum educational qualification asked for in the said category.
- 8) No interim enquiries / correspondence / communication of any sort will be entertained on the matter.
- 9) Canvassing in any form will disqualify the candidate from being called for interview.
- 10) Candidates must produce all original documents in proof of details furnished in the application at the time of interview for verification and the same will be returned after verification.
- 11) Selected candidate may have to join the post immediately on being found fit by Medical Authority.
- 12) **Aspiring candidates may submit their applications with post code along with their CV online only: <http://www.tropmet.res.in/Careers> up to 30<sup>th</sup> October 2015.**
- 13) Director, IITM reserves the right to fill-up or not to fill up the posts advertised without assigning any reasons thereof.

**Director**  
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