

INDIAN INSTITUTE OF TROPICAL METEOROLOGY, PUNE411008

(An Autonomous Institute under Ministry of Earth Sciences, Government of India)

Advertisement No. PER/ 09 /2010

Opportunities for Talented Young Scientists in Climate Science

The Indian Institute of Tropical Meteorology (IITM), Pune, an autonomous research organization, fully devoted to research in various aspects of climate science is looking for recruiting bright talented candidates of Indian origin to fill 20 Research Scientist positions in the following areas : (i)Development of a Dynamical Prediction System of Seasonal Mean Monsoon Rainfall; (ii)Extended Range Prediction System for active and Break Spells of the Monsoon; (iii) Interaction between Tropical Convection and Large Scale Circulation and Parameterization of Tropical Convection for Weather and Climate Models; (iv) Physics and Dynamics of Tropical Clouds using Radars and similar techniques; and (v)Climate Change and Indian Monsoon.

Its activities include training to post graduates and motivate them to take up research careers in atmospheric and oceanic sciences required to improve the skill of weather and climate prediction models. A Centre for Climate Change Research (CCCCR) has also been established at IITM to address all science issues related to Climate Change and Indian monsoon. To cater to the modelling needs, a High Performance Computing (HPC) Centre has been set up with peak performance of 70 TF, ranked 94th in the world. The Institute has excellent infra-structural facilities and also has the state of the art equipments for field observations. It has MoU with University of Pune for carrying out work leading to the award of M.Tech. and Ph.D. Degrees in Atmospheric sciences and allied subjects.

For details of the posts please visit the Institute's website <http://www.tropmet.res.in>. Aspiring candidates may please submit applications, separately for each particular Scientific Position, in the proforma with detailed CV, a list of publications and other relevant papers to the Administrative Officer of this Institute by 16 August 2010.

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The Institute is well known for its contribution in understanding monsoon variability and predictability. Its activities include training to post graduates and motivate them to take up research careers in atmospheric and oceanic sciences required to improve prediction skill of weather and climate. A Centre for Climate Change Research (CCCR) has also been established at IITM to address all science issues related to Climate Change and Indian monsoon. To cater to the modelling needs, a High Performance Computing (HPC) Centre has been set up with peak performance of 70 TF, ranked 94th in the world. The Institute has excellent infra-structural facilities and also has the state of the art equipments for field observations such as an X-Band Radar, a LIDAR Wind Profiler, a Microwave Radiometer, a variety of other LIDARs for aerosol measurements and a stable isotope radio mass spectrometer for paleo-climatic studies. It has MoU with University of Pune for carrying out work leading to the award of M.Tech. and Ph.D. Degrees in Atmospheric sciences and allied subjects..

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Requirements for the posts are as under :

(I) Scientist 'E' : 03 Posts (Unreserved)

Scale of Pay : Rs. 37400-67000, Grade Pay Rs. 8700 plus allowances admissible to Central Govt. employees stationed at Pune.

Essential Qualifications :

- (i) A Doctorate or equivalent in Meteorology, Atmospheric Sciences, Oceanography, Physics, Mathematics, Applied Mathematics, Statistics, Applied Physics, Geophysics from a recognized university/ institution with good scientific standing.
- (ii) A minimum of 8 years experience of research work (5 years of which should be after Ph.D.) and high capacity for guiding and coordinating research in Atmospheric and Oceanic Sciences (as evidenced by published papers and guidance to Post Graduate and Ph.D. students).

Desirable Qualifications :

The candidates must have Administrative and organizational experience in a recognized scientific Institution and must have demonstrated scientific leadership including guidance of research students. In addition, the candidate must have leadership contribution in any of the research areas viz. coupled ocean-atmosphere modelling and seasonal prediction of monsoon, extended prediction of active and break spells of monsoon, climate dynamics through climate modelling, dynamics and thermodynamics of air-sea interactions in tropics and its influence on Indian monsoon, data assimilation for climate models, parameterization of tropical convection and climate change.

Upper Age Limit : 50 years as on 1 July 2010

(II) Scientist 'D' ; 07 posts (06 posts for unreserved and 01 post reserved for Hearing Handicapped)

Scale of Pay : Rs. 15600-39100, **Grade Pay :** Rs. 7600 plus allowances admissible to Central Govt. employees stationed at Pune.

Essential Qualifications :

- (i) A Doctorate in Meteorology, Atmospheric Sciences, Oceanography, Physics, Mathematics, Applied Mathematics, Statistics, Applied Physics, Geophysics from a recognized University / Institution.
- (ii) A minimum of 6 years experience of research (2 years should be after Ph.D. in Atmospheric and / or Oceanic Sciences (as evidenced by published papers).

Desirable Qualifications :

Proven expertise in any of the research areas viz., palaeo-climate reconstruction and analysis, and interpretation of palaeo-climate data, and expertise in Stable Isotope Radio Mass Spectrometry, coupled ocean-atmosphere modelling and seasonal prediction of monsoon, climate dynamics and climate modelling, dynamics and thermodynamics of tropical air-sea interactions, assimilation of satellite and conventional data for climate predictions, parameterization of tropical convection, physical oceanography of the tropical ocean in general and Indian Ocean in particular and role of Indian Ocean processes on Indian monsoon, diagnosing climate variability and climate model biases and understanding of the Asian monsoon and its variability, Atmospheric Radar Technology and its application for weather and climate observations and climate change.

Upper Age Limit : 45 years as on 1 July 2010

(III) Scientist 'C' : 08 posts (07 posts for unreserved and 01 post reserved for Orthopaedically Handicapped)

Scale of Pay : Rs. 15600-39100, Grade PY Rs. 6600/- plus allowances admissible to Central Govt. employees stationed at Pune.

Essential Qualifications :

- (i) Master's Degree preferably a Doctorate in Meteorology, Atmospheric Sciences, Oceanography, Physics, Mathematics, Applied Mathematics, Statistics, Applied Physics, Geophysics, Electronics, OR B.E. / B.Tech. / M.Tech. (Electronics / Electrical Engineering) degree from a recognized university/institution.
- (ii) A minimum of 5 years experience of research in Atmospheric and/or Oceanic Sciences related to weather and climate (as evidenced by published papers).

Desirable Qualifications :

Proven expertise in any of the research areas viz., diagnosing climate variability and climate model biases and a deep understanding of the Asian monsoon and its variability, modelling of land surface processes and their impact on climate, assimilation of satellite and conventional data to AGCMs and oceanic data to OGCMs, dynamics and thermodynamics of convection and interaction between clouds and environment. Atmospheric Radar Technology and its application for weather and climate observations, nonlinear dynamics applied to atmospheric predictability and nonlinear time series modelling and Climate Change.

Upper Age Limit : 40 years as on 1 July 2010

(IV) Scientist 'B' : 02 posts (01 Unreserved and 01 reserved for Scheduled Caste Candidates)

Scale of Pay : Rs. 15600-38100, Grade Pay : Rs. 5400 plus allowances admissible to Central Govt. Employees stationed at Pune.

Essential Qualifications :

- (i) Master's Degree in Meteorology, Atmospheric Sciences, Oceanography, Physics, Mathematics, Applied Mathematics, Statistics, Applied Physics, Geophysics, Electronics, OR B.E./ B.Tech. / M.Tech. (Electronics / Electrical Engineering) degree from a recognized university/institution.
- (iii) A minimum of 3 years experience of research in atmospheric and/or oceanic sciences related to weather and climate (as evidenced by published papers).

Desirable Qualifications :

Proven understanding of any of the research areas viz. understanding of the Asian monsoon and its variability, land surface processes and their impact on climate, experience in dynamics and thermodynamics of convection and interaction between clouds and environment, Atmospheric Radar Technology and its application for weather and climate observations and all the relevant aspects.

Upper Age Limit : 35 years as on 1 July 2010

Age Limit Relaxable :

The upper age limit is relaxable by 5 years for candidates belonging to SC/ST and 3 years for candidates belonging to the Other Backward Class, and as per rules for ex-servicemen and physically handicapped persons. There is no age limit for IITM and Government employees.

- **Applications in the enclosed proforma indicating the name of the posts (e.g. Scientist E, D, C and B) together with detailed CV and list of publications should reach the undersigned by 16 August 2010.**
- The candidates should arrange three letters of reference to be sent directly to the undersigned from three scientists familiar with candidate's work.
- Separate applications should be submitted for each post.
- Candidates called for interview will be paid Sleeper Class to and fro train fare by the shortest route on production of original tickets.

**The Administrative Officer
Indian Institute of Tropical Meteorology
Dr. Homi Bhabha Road, Pashan
Pune-411008
Phone : 020 - 25904203
FAX : 020 - 25893825
Email : admadv@tropmet.res.in
URL: <http://www.tropmet.res.in>**

PROFORMA)
(Advt. No. PER/09/2010)
Application for the post of Scientist
(Fill up separate application for each post)

1. Name of the candidate in block letters

Surname	Name	Father / Husband's name				
Gender : Male / Female		Married / Unmarried				
2. Mailing address:						
City :		Pin Co.		State		
3. Telephone No.						
4. Mobile No.:						
5. Fax No.:						
6. E mail:						
7. Permanent Address:						
City :		Pin Co.		State		
8. Date of Birth :	Day	Month	Year			
9. Place of Birth						
10. Nationality						
11. Whether belongs to SC / ST / OBC / Physically Handicapped / Ex-Service man (Attach relevant certificates for the same)						
12. Academic Record						
Sr. No	Qualification	Year	Board / University	Subjects	Class / Division	Percentage of Marks
1	SSC (for date of birth)			--		
2	B.Sc					
3	M.Sc					
4	M.Tech.					
5	Ph.D.					
6						
7						

Enclose Photocopies of Mark sheets / Certificates

12.	Computer Skills	
13.	Area of Interest	
14.	Leadership Contribution in the area of research:	
15.	The guidance provided to research students	

16.	No. of papers published (Attach list)	i) Journals ii) Proceedings				
17.	Conference / Seminars etc. attended (Attach list)					
18.	Experience record (attach separate list with given details)	From	To	Place of work	Salary / scale of pay	Brief nature of duties
19.	Present Occupation					
20.	Reference from scientists familiar with the candidates work.	1	2	3		

Signature of the candidate