

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,**

**Dr. Homi Bhabha Road, Pashan, Pune- 411008.**

**(An autonomous Institute under Ministry of Earth Sciences, Government. of India)**

**(Advertisement No. PER/5/2009)**

**Vacancy Notification – Permanent Display**

*(The aspiring candidates may submit their curriculum vitae in the prescribed form. The collected applications will be screened at regular interval of time and suitable candidates will be called for interview.)*

The Indian Institute of Tropical Meteorology (IITM) is an autonomous Institute fully funded and administered by the Ministry of Earth Sciences, Government of India. It functions as a National Centre for Research in Tropical Meteorology and has scientifically and academically stimulating environment for research in applied and fundamental aspects of ocean-land-atmosphere interactions in the tropics. The Institute derives its strength from co-existence of a group of scientists on theoretical and modeling studies together with a large group of scientists on diagnostic studies and field observations. It has excellent infrastructural facilities such as high performance computers, world class library, workshop, experimental laboratories with latest technology scientific equipments and support for field experiments. It has very strong interlinks with the India Meteorological Department, the University of Pune and several other relevant national and international organizations. It has been recognized by several Indian Universities as a Centre of Advanced Research for carrying out work leading to the award of M.Sc., M.Tech. and Ph.D. Degrees in Atmospheric Sciences and allied subjects.

The Institute has launched several new initiative researches such as the national experiment called Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX). Also a new Centre for Climate Change Research (CCCR) is being established at the Institute to address all science issues related to climate change.

The IITM is looking for recruiting bright talented candidates for the following positions to do research in the areas of **(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) Parameterization of Tropical Convection for Weather and Climate Models and (iv) Interaction between Tropical Convection and Environment and Physics and Dynamics of Tropical Clouds using Radars (v) Science of Climate Change.**

The positions are (i) Scientist E (ii) Scientist D (iii) Scientist C [one post of Scientist D reserved for Hearing Handicapped]. For details of qualifications, age, experience etc., please visit Institute's website (<http://www.tropmet.res.in>)

## **SCIENTIST 'E'**

Scale of Pay: Rs. 37400-67000, Grade Pay Rs. 8700/- plus allowances admissible to Central Govt. employees stationed at Pune (Total emoluments at minimum of the scale presently amount to Rs. 69366/- approx.).

### **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 guiding of research students. In addition, the candidate must have leadership contribution in any of the research areas viz., coupled ocean-atmosphere modeling and seasonal prediction of monsoon, extended prediction of active and break spells of monsoon, climate dynamics through climate modeling, dynamics and thermodynamics of air-sea interactions in tropics and its influence on Indian monsoon, data assimilation for climate models, parameterization of tropical convection, Regional Climate Change and Indian Monsoon.

**Upper Age Limit:** 45 years

## **(II) SCIENTIST 'D' [1 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 (Total emoluments at minimum of the scale presently amount to Rs. 45794/- approx.).

### **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 palaeoclimate data, and expertise in Stable Isotope Radio Mass Spectrometry, coupled ocean-atmosphere modeling and seasonal prediction of monsoon, climate dynamics and climate modeling, 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, Regional Climate Change and Indian Monsoon.

**Upper Age Limit:** 40 years

### **(IV) SCIENTIST `C`**

Scale of Pay: Rs. 15600-39100, Grade Pay Rs. 6600/- plus allowances admissible to Central Govt. employees stationed at Pune (Total emoluments at minimum of the scale presently amount to Rs.39901/- approx.).

### **Essential Qualifications**

- (i) Master's Degree preferably a Doctorate in Meteorology, Atmospheric Sciences, Oceanography, Physics, Mathematics, Applied Mathematics, Statistics, Applied Physics, Geophysics, Electronics, 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, modeling 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 modeling, Regional Climate Change and Indian Monsoon

**Upper Age Limit:** 35 years.

### **Relaxation of Age Limit**

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.

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**.

**The Administrative Officer**

Indian Institute of Tropical Meteorology

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## PROFORMA

Application for the post of Scientist .....  
(Fill separate application for each post )

**1. Name of the candidate in block letters**

<b>Surname</b>	<b>Name</b>	<b>Father / Husband's name</b>				
<b>Gender : Male / Female</b>			<b>Married / Unmarried</b>			
<b>2. Mailing address</b>						
<b>3. Telephone No.</b>						
<b>4. Mobile No.</b>						
<b>5. Fax no.</b>						
<b>6. Email</b>						
<b>7. Permanent Address:</b>						
<b>8. Date of Birth</b>						
<b>9. Place of Birth</b>						
<b>10. Nationality</b>						
<b>11. Whether belongs to SC / ST / OBC / Physical Handicapped / Ex- Service man (attach relevant certificates for the same)</b>						
<b>12. Academic Record</b>						
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 Xerox copies of Mark sheets / Certificates**

<b>12.</b>	<b>Computer Skills</b>	
<b>13.</b>	<b>Area of interest</b>	
<b>14.</b>	<b>Leadership Contribution in the area of research:</b>	
<b>15.</b>	<b>The guidance provided to research students</b>	
<b>16.</b>	<b>No. of papers published ( attach list)</b>	<b>i) Journals ii) proceedings</b>

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**