

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY**  
Dr. Homi Bhabha Road, Pashan, Pune 411008  
(An autonomous Institute under Ministry of Earth Sciences, Govt. of India)  
**Advertisement NO. PER/ 7 /2009**  
**Advertisement for contract posts for High Performance Computer (HPC)**

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-end computers, library, workshop, experimental laboratories 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.

IITM has launched some major programs on modeling for prediction of seasonal mean monsoon and extended range prediction of active and break spell involving global coupled ocean atmosphere models. In addition to these activities, a Centre for Climate Change Research (CCCR) is also coming up at IITM. To cater these modeling needs a high performance computing Centre is being set up. Two High performance computers (HPCs), one with peak performance of 2.5 TF and another with 8 TF are already in place. Another high capacity HPC will be acquired for the CCCR.

In order to assist and coordinate the IITM scientists to achieve high performance computing oriented research on dynamical modeling, IITM is looking for recruiting talented candidates of Indian origin for the various positions at the Institute. These positions are purely on contractual basis on a fixed monthly salary for a period of two years and are not eligible for any benefits available to regular employees of the Institute and also not count for service benefits.

- |                       |          |   |
|-----------------------|----------|---|
| <b>1. Scientist C</b> | <b>-</b> | <b>Consolidated salary Rs. 40000/- p.m. – 2 posts</b> |
| <b>2. Scientist D</b> | <b>-</b> | <b>Consolidated salary Rs. 48000/-p.m. – 2 post</b>   |

For details of the post please visit the Institute's website <http://www.tropmet.res.in>

Completed applications with bio data in the prescribed form should reach the Administrative Officer of the Institute by post / courier by **29<sup>th</sup> May, 2009**.

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Contd...

**Scientist-C : No. of Post: 2**

**Contract period: 2 years**

**Upper Age Limit: 40 years (as on 1 June 2009)**

Consolidated pay Rs.40, 000 /- per month. The increment on Basic would be Rs. 2000 per year till the contract period.

**Essential Qualifications:**

- I. B.E./B.Tech./ M.E/M.Tech./MSc. (Electronics /Electrical/ computer/ Atmospheric Science/ Meteorology) degree from a recognized university/institution.
- (i) A minimum of 2 years working experience with Atmospheric, Oceanic and Coupled General Circulation Models and issues related to porting, installation and troubleshooting of dynamical models ; use of meteorological software and programming language like FORTRAN-90, C/C++, GrADS, Ferret, Unix/Linux operating systems, shell scripting, knowledge of parallel Computing and porting general circulation model on the High performance computing architectures.

**Desirable Qualification:**

- (i) Handling of large volume of data, e.g. conversant with netcdf, HDF, GRIB, GrADS data format.
- (ii) Knowledge of internet basics.
- (iii) Knowledge of UNIX/LINUX System Administration would be an added advantage.
- (iv) Ability to work in large groups.

**Scientist-D :No. of Post: 2**

**Contract period: 2 years**

**Upper Age Limit: 45 years (as on 1 June 2009)**

Consolidated pay Rs.48, 000 /- per month.  
The increment on Basic would be Rs. 3000 /-per year till the contract period.

**For Post No. 1**

**Essential Qualifications:**

(i) A Doctorate in Meteorology/Atmospheric Sciences/Oceanography/Physics /Mathematics from a recognized university/institution with good research publications.

OR

M.Tech in Atmospheric Science /Meteorology and at least a minimum of 4 years experience of research in Atmospheric and/or Oceanic Sciences (as evidenced by published papers).

(ii) Knowledge of atmospheric oceanic and coupled general circulation models; use of meteorological software and programming language like Fortran, C, Grads, Unix/Linux operating systems, shell scripting etc.

**Desirable Qualification:**

- (i) Knowledge of Monsoon prediction using dynamical models.
- (ii) Handling of large volume of data, e.g. conversant with netcdf, hdf Grads data format.
- (iii) Ability to work in groups.

**For post No. 2**

**Essential Qualifications:**

- (i) Master's Degree preferably a Doctorate in Computer Science/ Information Technology, Meteorology/Atmospheric Sciences/Oceanography/ Applied Mathematics, Statistics, Applied Physics, Geophysics, Electronics, B.E./ B. Tech./ M. Tech.(Computer/Electronics/Electrical Engineering) degree from a recognized university/institution.
- (ii) At least 4 years of experience with the installation, porting and troubleshooting of different Atmospheric/Oceanic and similar dynamical models; Familiarity with the coding and programming of complex dynamical models, ocean-atmosphere couplers; use of meteorological software and programming language like Fortran, C/C++, GrADS, Unix/Linux operating systems, shell/PERL/TCL scripting, Linux/UNIX system administration, working experience in high performance computing.

**Desirable Qualification:**

- (i) Handling of large volume of data, e.g. conversant with netcdf, hdf Grads data format.
- (ii) Knowledge of (dot) NET/SQL/ORACLE, data mining application software and/or networking applications.
- (iii) Ability to work in groups.

**Age Limit Relaxation**

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 employees and five years relaxation for Government employees. Application in the attached format indicating name of the post applied with copies of certificates of relevance should reach the undersigned by **29 May 2009**. Separate applications should be submitted for each post. (Proforma enclosed ) Candidates called for interview will be paid Sleeper Class to & 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 – 411 008, India  
Phone : 91-20-25893600  
Fax : 91-20-25893825  
E-mail : [admadv@tropmet.res.in](mailto:admadv@tropmet.res.in)  
URL : <http://www.tropmet.res.in>

**Application for the post of Scientist C / D**

**(Fill up all the columns )**

1. Name of the Candidate in Block letters

Surname		Name		Father / Husband's name		
Gender : Male / Female				Married / Unmarried		
2	Mailing address					
3	Telephone No.					
4	Mobile No.					
5	E-mail					
6	Permanent address					
7	Date of birth					
8	Place of birth					
9.	Nationality					
10	Whether belongs to Scheduled Caste / Scheduled Tribes / Other Backward Class / Physically Handicapped / Ex-Service man ( attach relevant certificate for the same.)					
11.	Academic Records :					
Sr. No.	Qualifications	Year	Board / University	Subjects	Class / Division	Percentage of marks
1.	SSC					
2.	B.Sc. / BE / B.Tech.					
3.	M.Sc. / ME / M.Tech					
4.	Ph.D.					
5.						
6.						

Enclose xerox copies of mark sheets / certificates.

12.	Computer Skills	
13.	Area of interest	
14.	Leadership Contribution in the area of research	

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

**Signature of the candidate.**