

# MINISTRY OF SCIENCE & TECHNOLOGY

## DEPARTMENT OF SCIENCE & TECHNOLOGY

ADVERTISEMENT NO. DST/4/93

Applications are invited for the following posts:

### VACANCY NO. 1

*Name of the post: JOINT DIRECTOR (COMPUTER), NCMRWF – ONE POST*

On deputation basis for a period of three years or on direct recruitment basis. The period of deputation, including the period of deputation in another ex-cadre post held immediately preceding this appointment in the same or some other organization/department of the Central Government, shall not exceed five years.

Scale of pay: Rs 5900–6700. Total emoluments at the minimum of pay will be Rs 11,071 p.m., including HRA as per rules.

#### *Eligibility conditions*

Officers under the Central/State Governments/Public Sector Undertakings/Universities/State Government recognized Research Institutions/Autonomous or Statutory Organizations in India or abroad and

- (a) (i) holding analogous post or posts in the scale of Rs 5900–6700 or equivalent  
or  
(ii) with two years service in posts in the scale of Rs 4500–5700/5100–6300 or equivalent.

#### *Essential qualifications*

- (i) Master's degree in science or equivalent from a recognized university or institution in physics, mathematics, statistics, operational research, electronics, computer science/application or any other allied discipline, or degree in engineering with specialization in computers from a recognized university or equivalent.  
(ii) Twelve years of relevant experience in science and technology organization and/or academic institution, out of which at least five years should be concerning research and development in the field of computer systems management, systems and scientific application, software and computer networking, etc., and proven ability to guide younger scientists and manage research and development projects.

#### *Desirable*

- (i) Master's degree in engineering/technology in computer science/applications, or master's/doctorate degree in meteorology, atmospheric physics or oceanography from a recognized university or institution.  
(ii) Experience in systems integration/management using supercomputer for medium-range weather forecasting.  
(iii) Experience in networking and satellite-based communication network.  
(iv) Published research work of high standard in computer science.

### *Duties*

The selected officer will be in charge of Computer and Networking Division of NCMWRF and will be responsible for efficient management of supercomputing facility, development of system and scientific application software, and providing effective support and training to all users. He will also be responsible to establish a data communication network for timely dissemination of agrometeorological advisories to the farming community throughout the country. Additional responsibilities may be entrusted as and when the need arises.

### **VACANCY NO. 2**

*Name of the post: JOINT ADVISOR (National Entrepreneurship Board) – ONE POST*

On deputation basis for a period of three years or on direct recruitment basis. The period of deputation, including the period of deputation in another ex-cadre post held immediately preceding this appointment in the same or some other organization/department of the Central Government, shall not exceed five years.

Scale of pay: Rs 5900–6700. Total emoluments at the minimum of pay will be Rs 11,071 p.m., including HRA as per rules.

### *Eligibility conditions*

Scientists or technologists working under the Central/State Government/Public Sector Undertakings/Universities/State Government recognized Research Institutions/Autonomous or Statutory Organizations in India or abroad and

- (a) (i) holding analogous post or posts in the scale of Rs 5900–6700 or equivalent  
or  
(ii) with two years service in posts in the scale of Rs 4500–5700/5100–6300 or equivalent.

### *Essential qualifications*

- (i) Master's degree in science/mathematics/statistics or bachelor's degree in engineering/technology from a recognized university or equivalent.  
(ii) Twelve years of experience in science and technology/R&D organization/industrial/academic institution.  
(iii) Ability to evolve and managing new research programmes of interdisciplinary nature.

### *Desirable*

- (i) Master's degree in engineering/technology in the relevant field or doctorate degree.  
(ii) Published research work of high standard in the relevant field.  
(iii) Experience in the field of financial management.

### *Duties*

1. The selected officer will be overall in-charge for promotion and development of entrepreneurship among S&T persons and schemes for mass employment objectives of S&T persons. 2. To coordinate and interact with State Government agencies, financial institutions, banks, etc. 3. To give an impetus and thrust to the on-going programmes. 4. To plan, direct and coordinate the overall activities of the Division in order to achieve the targets as fixed by the Government from time to time.

### **VACANCY NO. 3**

*Name of the post: SENIOR SCIENTIFIC OFFICER GRADE-II – ONE POST*

Reserved for Scheduled Tribes.

Scale of pay: Rs 2200–4000. Total emoluments at the minimum of pay will be Rs 4774 p.m., including HRA as per rules.

#### *Essential qualifications*

(i) Master's degree in science/mathematics/statistics or bachelor's degree in engineering/technology from a recognized university or equivalent.

#### *Desirable*

(i) Two years of specialized experience in Central/State Government/R&D/Industrial/academic institutions and/or scientific & technological organizations in collection, compilation, processing and analysing of data and writing of analytical reports.

#### *Duties*

(a) To examine the scientific, technical and other contents of the proposals/projects/programmes critically and objectively within the framework or guidelines already approved to enable senior officers to take a final decision in each case.

(b) To monitor the achievements made during the implementation stage of the programmes which have been approved by the department.

(c) To assist the senior officers in implementing the identified work programmes.

(d) To help in organizing and coordinating meetings, preparing agenda notes/minutes and follow-up action thereof.

(e) To help in preparing briefs and notes and collecting materials for national and international conferences, seminars, symposia, etc.

(f) To assist in the preparation of review and status reports on specific schemes/programmes and areas of science & technology.

(g) To keep current records and other papers in his custody where assistance in the form of TA, JTA, LDCs, etc., has not been provided to him.

(h) To carry out any other duty assigned to him by the competent authority from time to time.

### **VACANCY NO. 4**

*PRINCIPAL SCIENTIFIC OFFICER – THREE POSTS*

On deputation basis for a period of three years.

A. Model diagnostic studies: One post

B. Synoptic meteorology: One post

C. Statistical weather forecast: One post



Scale of pay: Rs 3700-125-4700-150-5000. Total emoluments at the minimum of pay will be Rs 7020 p.m., excluding the HRA as per rules.

*Essential qualifications*

Bachelor's degree in engineering/technology or master's degree in science or equivalent from a recognized university or institute in physics, mathematics, statistics, operational research, meteorology, atmospheric physics, oceanography or computer science or any other allied discipline.

*Experience*

(A) For post A – Eight years of experience in research and development activities on dynamic meteorology and numerical weather prediction in science and technology organizations and/or academic/industrial institutions, out of which four years should be in diagnostic studies relevant to numerical weather prediction.

(B) For post B – Eight years of experience in research and development activities on synoptic and dynamic meteorology in science and technology organizations and/or academic/industrial institutions, out of which four years should be in the field of operational weather forecasting.

(C) For post C – Eight years of experience in research and development activities on application of statistical methods in science and technology organizations and/or academic/industrial institutions, out of which four years should be in the field of statistical techniques used for weather forecasting.

*Desirable qualifications*

Doctorate in the relevant areas and published research work of high standards.

*Duties*

*A. Principal Scientific Officer (Model diagnostic studies)*

To undertake diagnostic studies with analysis and model output in order to improve the model capability of monsoon forecast.

*B. Principal Scientific Officer (Synoptic meteorology)*

Synoptic interpretation of model output/products in operational weather forecasts, synoptic verification of NWP products, preparation and issue of weather prediction bulletins for agromet advisory system.

*C. Principal Scientific Officer (Statistical weather forecast)*

Development of statistical technique for local weather forecast based on model output.

**VACANCY NO. 5**

**SENIOR SCIENTIFIC OFFICER GRADE-I – FOUR POSTS**

On deputation basis for a period of three years.

A. Model diagnostics: One post

B. Satellite meteorology: One post

C. Meteorological data processing: One post

D. Computer science/application: One post

Scale of pay: Rs 3000-100-3500-125-4500. Total emoluments at the minimum of the scale will be Rs 5860 p. m., excluding HRA as per rules.

*Essential qualifications*

Bachelor's degree in engineering/technology or master's degree in science or equivalent from a recognized university or institute in physics, mathematics, statistics, operational research, meteorology, agrometeorology/agriculture, with training in meteorology, atmospheric physics, oceanography or computer science/applications or electronics or any other allied disciplines.

*Experience*

For post A – Four years of proven experience in research and development activities on dynamic meteorology and numerical weather prediction in science and technology organizations and/or academic/industrial institutions, out of which two years should be in diagnostics studies related to numerical weather prediction.

For post B – Four years of proven experience in research and development activities on satellite meteorology in science and technology organizations /or academic/industrial institutions, out of which two years should be in retrieval of meteorological parameter from satellite, needed for numerical weather prediction.

For post C – Four years of proven experience in research and development activities on statistical meteorology and dynamic meteorology in science and technology organizations and/or academic/industrial institutions, out of which two years should be in meteorological data processing and analysis.

For post D – Four years of proven experience in research and development activities on computer science in science and technology organizations and/or academic/industrial institutions, out of which two years should be in development of databases/computer graphics/computer network/expert systems/utilities for performance optimization of systems and application software.

*Desirable qualifications*

Master's degree in engineering/technology or doctorate in the relevant area and published research work of high standard.

*Duties*

A. Model diagnostics: To undertake diagnostic studies with analysis and model output in order to improve the model capability of monsoon forecast.

B. Satellite meteorology: Development and implementation of new and existing techniques for retrieval of meteorological parameters from satellite, needed for NWP and impact studies of satellite data.

C. Meteorological data processing: Development and implementation of new and existing techniques for decoding and quality control of different types of meteorological data used in NWP.

D. Computer science/applications: Development and operationalization of computer graphics, meteorological databases, expert systems, software optimization techniques and computer network.

**VACANCY NO. 6**

**SENIOR SCIENTIFIC OFFICER GRADE-II (COMPUTER) – TWO POSTS**

One post reserved for Scheduled Caste. On deputation basis for a period of three years.

Scale of pay: Rs 2200-75-2800-EB-100-4000. Total emoluments at the minimum of pay will be Rs 4302 p.m., excluding HRA as per rules.

#### *Essential qualifications*

Master's degree in science or bachelor's degree in engineering/technology or equivalent from a recognized university or institute in computer science or electronics and communication engineering or any other allied disciplines.

#### *Experience*

Two years of experience in development of databases/computer graphics/computer network system and application software.

#### *Duties*

- (i) Development of software for computer graphics, databases, archival and retrieval system, export systems.
- (ii) Assistance in networking and operationalization of forecasting systems.
- (iii) Software support including optimization.
- (iv) Assistance to senior scientists and supervision of technical assistants/monitoring assistants.

#### **GENERAL**

1. *Relaxation.* Government may relax the eligibility conditions in respect of age, education and experience in case of deserving candidates otherwise well qualified or in exceptional circumstances.
2. The posts of Joint Director (Computer-NCMRWF), Joint Advisor (NEB), Principal Scientific Officer (NCMRWF), Senior Scientific Officer Grade-I (NCMRWF), and Scientific Officer Grade-II are on *deputation basis for a period of three years.*
3. Number of vacancies are tentative and may increase or decrease. The Government reserves the right to cancel the recruitment for any of these vacancies without assigning any reason.
4. *Age.* Not exceeding the limits (unless otherwise specified) as given below, as on 8 December 93, relaxable up to five years for Central Government servants, SC/ST candidates and ex-serviceman.

<i>Post</i>	<i>Age not exceeding</i>
Joint Adviser/Joint Director	50 years
PSO	45 years
SSO-I	40 years
SSO-II	28 years

5. Candidates desirous of applying for more than one vacancy should submit separate applications for each vacancy.
6. The candidate must be a citizen of India or a subject of Nepal/Bhutan or a Tibetan refugee who came over to India before 1 January 1962 with the intention of permanently settling in India.
7. The prescribed essential qualifications are minimum and the mere possession of the same does not entitle candidates to be called for interview. Where the number of applications received in response to the advertisement is large and it may not be convenient or possible for the committee to interview all the candidates, the committee may restrict the number of candidates for interview to a reasonable limit on the basis of qualifications and/or experience higher than minimum prescribed in the advertisement or by holding a screening test. No correspondence will be entertained with candidates not selected for interview/appointment.  
**CANVASSING IN ANY FORM WILL RESULT IN DISQUALIFICATION OF CANDIDATURE.**



8. Outstation candidates called for interview will be paid to and from I class railway fare for Joint Adviser/Joint Director and II class railway fare for Principal Scientific Officer, Senior Scientific Officer Grade-I & Senior Scientific Officer Grade-II by shortest route on production of proof of journey such as railway ticket/number, etc.

9. The selected candidates are liable to be posted anywhere in India or abroad.

10. Advance increments up to a maximum number of five may be granted in exceptionally deserving cases on a specific recommendation of the Selection Committee (except in case of Central Government servants whose pay has to be fixed as per rules).

11. Experience will be counted after completion of essential academic qualifications. Completed degree of MBA /M Tech will be counted as two years or the actual duration of the course, whichever is less, while a completed doctorate degree will be counted as three years or the actual duration of the course, whichever is less, towards experience. In case, a candidate has obtained the above degrees while in service, only his service period will be counted towards experience and he will not get any additional weightage for MBA/M Tech/doctorate for the purpose of counting towards total period of experience.

12. *How to apply.* (a) Applications should be neatly typed on thick plain paper (A-4 size, 210 x 297 mm) in the prescribed format given below. APPLICATIONS IN FORMATS OTHER THAN THE ONE PRESCRIBED BELOW WILL NOT BE ENTERTAINED.

(a) (i). The post of Joint Director (Computer-NCMRWF) & Joint Adviser (NEB) could also be filled on direct recruitment basis. Candidates who desire to apply for these posts on direct recruitment basis should also enclose crossed non-refundable Indian Postal Order of Rs 8 for each post drawn in favour of Pay and Accounts Officer, Department of Science & Technology, payable at New Delhi.

(b) Along with the completed application with enclosures, a self-addressed post-card with requisite stamp should be enclosed. Candidates should indicate in this card the Advertisement No., Vacancy No. and Name of the post applied for. The applications will be acknowledged by the Department by returning this card to the candidate after indicating the Registration No. allotted to the candidate. Candidates may note that no separate acknowledgement other than this card will be sent to them.

(c) Candidates working in Government/Public Sector Undertaking/Autonomous organizations should apply through proper channel. In case they anticipate any delay in forwarding applications, they may submit an advance copy directly along with all the required enclosures, including a photograph and copies of certificates, so as to reach before the closing date. Their interview shall, however, be subject to receipt of their applications through proper channel.

(d) Attested copies of certificates in support of educational qualifications and Community Certificate (in case of SC/ST candidates only) should be attached along with the application. Candidates will have to produce proof of the details furnished in their application as and when required.

(e) Certificate(s) from the Head(s) of Organizations/Departments for the entire experience claimed should be submitted, mentioning clearly the duration of employment/Associateship/Fellowship (date, month and year) and indicating the basic/consolidated pay. The certificate(s) should also mention the nature of duties performed/experience obtained in the post(s) along with their duration. FAILURE TO FURNISH THE REQUISITE CERTIFICATE MAY RENDER THE RELEVANT EXPERIENCE CLAIMED TO BE IGNORED.

(f) Applications received after the closing date or received incomplete in any respect are liable to be summarily rejected. No representation against such rejection will be entertained.

(g) Completed applications should be sent by name to Shri Virendra Kapoor, Under Secretary, Recruitment Cell, Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi 110 016, by Registered Post in a cover superscribed "APPLICATION FOR THE POST OF - - - - latest by 8 December 1993. The prescribed date for receipt of applications from candidates abroad and from Andaman, Nicobar and Lakshadweep Islands, States/Union Territories in the North-Eastern region, Ladakh division of J&K State, Sikkim, Pangri subdivision of Chamba, Lahaul & Spiti districts of Himachal Pradesh will be 18 December 1993.

### FORMAT OF APPLICATION

Affix  
Passport  
size photo

Serial Number:   
(For Office Use only)

1 Advertisement No.   
2 Post for which applied

3 Vacancy No.   
4 Name in full (in block letters leaving one box blank  
between name and surname   
  
5 Father's/husband's Name

6. a) Date of birth                      Date                      Month                      Year  
                                                    
b) Age on closing date                      Date                      Month                      Year  
                                                    
c) Age relaxation need                      Yes                      No                     

7. Nationality   
8. Religion   
9. Address for correspondence  
(in block letters)   
  
  
  
Pin Code:

10. Nearest railway station.   
11. Whether you belong to  SC   ST  Handicapped   
(Please tick and if yes, attach certificate)

12. Educational qualifications:  
(In chronological order from X Standard (SSLC/HSC onwards)) (Enclose a separate sheet, duly authenticated by your signature, if the space below is insufficient)

Sl. No.	Exams passed	University/ Institution/ Board	Year of passing	Main subjects taken	Subject of specialization	Result with division/class & % of marks

13. Knowledge of foreign language, if any (attach proof possible)

Sl. No.	Language	Skill	Very good	Good	Fair
		Written Spoken			

14. Professional training:

Sl. No.	Organization	From	Period	To	Details of training



15. Present employment under  
 Central Govt.          State Govt.          Autonomous body  
 Public undertaking          Others

16. Employment record (details in chronological order, starting with the first job) (Enclose a separate sheet, duly authenticated by your signature, if the space below is insufficient)

Sl. No.	Name & address of the employer/ Institution	Post held	Ad-hoc or reg/temp. or perm.	From	To	Total period of each employment in years months & days	Scale of pay	Nature of duties
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NOTE: COPIES OF CERTIFICATES CLEARLY MENTIONING THE ENTIRE EXPERIENCE CLAIMED INCLUDING THE DURATION OF EMPLOYMENT/RESEARCH ASSOCIATESHIP/FELLOWSHIP, DATE, MONTH AND YEAR INDICATING THE BASIC PAY/CONSOLIDATED PAY RECEIVED SHOULD BE ATTACHED. THE CERTIFICATE SHOULD ALSO MENTION THE NATURE OF DUTIES PERFORMED/EXPERIENCE OBTAINED IN THE POSTS WITH DURATIONS. IN THE ABSENCE OF SUCH CERTIFICATE, RELEVANT EXPERIENCE CLAIMED IS LIABLE TO BE IGNORED.

17. Details of research work, experience, if any.  
 (Annexure, if any, should not exceed 200 words)

18. Specialisation (with reference to experience desired for the post)

19. Present Pay

i) Scale of pay \_\_\_\_\_ Revised/Pre-revised  
 ii) Basic Pay Rs. \_\_\_\_\_  
 iii) Other allowance excluding HRA & CCA \_\_\_\_\_  
 iv) Total Salary Rs. \_\_\_\_\_ ((i) + (ii))  
 v) Basic Salary expected: Rs. \_\_\_\_\_

20. Give below the names of two references (they must not be related to you) who are in a position to testify from their personal knowledge as to your fitness for the proposed appointment. They must be persons under whom you have worked or studied.

(i) Name with full address  
 (ii) Name with full address

21. Permanent Address: \_\_\_\_\_  
 (in block letters) \_\_\_\_\_  
 Pm Code \_\_\_\_\_

22. Any other information you may wish to add:  
 (in brief and no annexure need be enclosed)

23. Details of Enclosures

24. Declaration:

I certify that the foregoing information is correct and complete to the best of my knowledge and belief and nothing has been concealed/distorted. If at any time I am found to have concealed/distorted any material information, my appointment shall be liable to be summary termination without notice/compensation.

Place: \_\_\_\_\_ Date: \_\_\_\_\_ Signature of the candidate.

CERTIFICATE  
 (TO BE GIVEN BY THE HEAD OF DEPARTMENT)

Certified that the particulars have been verified and found to be correct. It is also certified that no disciplinary/vigilance proceedings are either pending or contemplated against the officer. Integrity of the officer is also certified.

Signature of the Head of the Department with rubber stamp