भारतीय उष्णदेशीय मौसम विज्ञान संस्थान (आईआईटीएम)

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विज्ञापन सं .कार्मिक/04/2019

पूर्णतया लघु अवधि अनुबंध आधार पर परियोजना वैज्ञानिक / वैज्ञानिक सहायक ग्रेड - सी / परियोजना सहायक की भर्ती

भारतीय उष्णदेशीय मौसम विज्ञान संस्थान (आईआईटीएम) पृथ्वी विज्ञान मंत्रालय ,नई दिल्ली द्वारा पूर्णत : निधिकृत एक स्वायत्त अनुसंधान संगठन है। यह उष्णकटबंधीय मौसमविज्ञान पर बल देते हुए वायुमंडलीय विज्ञान ,विशेष रूप से जलवायु परिवर्तन और भारतीय मानसून के विभिन्न पहलुओं में अनुसंधान हेतु समर्पित ,राष्ट्रीय एवं अंतर्राष्ट्रीय ख्याति प्राप्त यह एक प्रमुख संस्थान है।

"महानगरीय वायु गुणवत्ता और मौसम सेवाओं" (MAQWS) परियोजना के लिए निम्नलिखित पदों के लिए भर्ती करने का प्रस्ताव है , जिसका विवरण निम्नवत् है :

क्रम सं.	पद का नाम	परिलब्धियाँ	कुल पद	अधिकतम आयु
1.	परियोजना वैज्ञानिक डी	रू 68,000/-, तथा मकान किराया भत्ता	1	50 वर्ष
2.	परियोजना वैज्ञानिक सी	रू 58,000/-, तथा मकान किराया भत्ता	2	40 वर्ष
3.	परियोजना वैज्ञानिक बी	रू 49,000/-, तथा मकान किराया भत्ता	2	35 वर्ष
4.	वैज्ञानिक सहायक ग्रेड - सी	रू 44,900/-, तथा मकान किराया भत्ता	3	35 वर्ष
5.	परियोजना सहायक	रू 22,000/-	7	28 वर्ष

नियुक्ति प्रारंभ में पूर्णतया अस्थायी एवं अनुबंध आधार पर केवल 31 मार्च 2020 तक की अवधि के लिए है ।

अनुसूचित जाति/अनुसूचित जनजाति ,अन्य पिछड़ा वर्ग ,शारीरिक रूप से विकलांग /भूतपूर्व सैनिकों के लिए भारत सरकार के नियमानुसार ऊपरी आयु सीमा में छूट दी जाएगी।

इच्छुक उम्मीदवार अपने आवेदन सीवी के साथ केवल ऑनलाइन **http://www.tropment.res.in/Careers** पर प्रस्तुत करें।

आवेदन की हार्ड कॉपी स्वीकार नहीं की जाएगी।

ऑनलाइन आवेदन प्रस्तुत करने की सुविधा **दिनांक 15 मार्च 2019 (15.00)** बजे को प्रारंभ होगी और **दिनांक 05 अप्रैल 2019 को (17.00) बजे** बंद हो जाएगी।

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY (IITM),
Dr. Homi Bhabha Road, Pashan, Pune-411008**

ADVERTISEMENT NO. PER/04/2019

RECRUITMENT OF PROJECT SCIENTISTS/ SCIENTIFIC ASSISTANT GRADE – C AND PROJECT ASSISTANTS PURELY ON 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 is proposed to recruit for the following posts as detailed below for "Metropolitan Air Quality and Weather Services" (MAQWS) Project :

Sr. No.	Name of the post	Emoluments	Total Posts	Max. Age
1.	Project Scientist D	Rs. 68,000/- + HRA	1	50 years
2.	Project Scientist C	Rs. 58,000/- + HRA	2	40 years
3.	Project Scientist B	Rs. 49,000/- + HRA	2	35 years
4.	Scientific Assistant Grade – C	Rs. 44,900/- + HRA	3	35 years
5.	Project Assistant	Rs. 22,000/-	7	28 years

The appointment is purely on temporary on contractual basis for a period up to 31st March2020.

Upper age limit is relaxed for SC/ST, OBC, Physical handicapped/ ex-servicemen as per Government of India norms.

Aspiring candidates may submit their applications along with their CV online only: http://www.tropment.res.in/Careers

Hard copy of the applications will not be accepted.

Other relevant details about the posts are available under www.tropmet.res.in/Careers

Facility for submitting online applications will commence on 15 March 2019 (15:00 hours) and close on 05th April 2019 at (17.00 hrs).

INSTRUCTIONS

1. The last date of submission of online application is 05th April 2019.
2. The last date is the cut of date for all purposes including age/qualification/experience etc.
3. Only Indian Nationals are eligible to apply.
4. Mere possession of required qualification will not entitle the candidates to be selected for interview. If the number of applications received in response to advertisement is large, it will not be convenient or possible for the Selection Board to interview for all those candidates. So, the Institute may restrict the number of candidates to be called for interview to a reasonable limit of desirable qualification and/or on the record of academic performance and/or relevant experience for the post prescribed in the advertisement as per the specific requirement of the centre and/or any other benchmark decided by a committee constituted to screen the applications. No correspondence will be entertained with candidates who are not called for Interview.
5. **Age limit**

For the post of Scientist – D	50 years
For the post of Scientist – C	40 years
For the post of Scientist – B	35 years
Scientific Assistant Grade – C	35 years
Project Assistant	28 years

   - Upper age limit is relaxed for SC/ST/ OBC/Physically Handicapped persons/Ex-servicemen as per Government of India norms.
6. Experience shall mean the experience in the relevant field acquired from Government/ Semi Govt. / PSU/ Autonomous/ Research/ Reputed Organization after obtaining the minimum educational qualification asked for in the said category.
   Experience claim should be supported by valid documentation.
7. Selection will be on the basis of performance of the screened in candidates, in the interview.
8. Candidates must produce all original documents as proof of details furnished in the application and photocopy of each, at the time of interview for verification. Any discrepancies found in the certificate will attract the disqualification of applications. Non production of the original certificates at the time of interview will also make the candidate disqualified.
9. Selected candidate may have to join the post immediately, on being found fit by Medical Authority.
10. Essential qualification, experience and age limit can be relaxed at the discretion of the appointing authority in exceptional cases.
11. Director, IITM reserves the right to fill-up or not to fill up the post advertised without assigning any reasons thereof.
12. Doctorate Degree will count as 3 years of experience
13. M.Tech. degree will be counted as 1 year experience
14. No TA/DA will be paid for attending the interview. For SC/ST candidates admissible TA/DA shall be considered as per Government of India orders.
15. CGPA grading is to be converted in the percentage.
16. Total number of posts may vary.

Post Code – **MAQWS-2019-001** Post Name - **Project Scientist D (Air quality Data Assimilation)** No. of posts - **1No.**

Essential Qualification:
- M.Tech. (Atmospheric Science/ Climate Science/ Earth Science System and Technology/ Environmental Sciences) with at least 60% marks from recognized University / Institute OR M.Sc. in Physics/Mathematics/ Atmospheric Sciences/ Environmental Sciences / Geophysics /Meteorology with at least 60% marks from recognized University / Institute
- **Minimum 7 years of experience** in Atmospheric regional/global chemistry transport modelling, data analysis relevant to air quality modelling as evidenced by publication in relevant field.

Desirable Qualification:
- Ph.D. in any of the above subjects.
- **At least 3 years of Post doc experience** in the field of atmospheric chemistry
- **Experience in Data assimilation** - conventional, remote sensing and satellite data
- Experience in running air quality forecasting models (like WRF-Chem or CMAQ) and global models (like MOZART, etc.)
- Shell scripting and meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc). Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB, GrADS etc
- Knowledge of UNIX/LINUX System , working on high performance computing system
- The experience should be demonstrated through scientific reports/publications.
- Knowledge of GIS and spatial application skill

Job Responsibilities:
Scientist has to develop chemical data assimilation system using all types of available data for improving chemical & meteorological initial conditions and evaluate global and high resolution air quality forecasting system. Design numerical experiments for physical/chemical process studies.

Post Code – **MAQWS-2019-002** Post Name - **Project Scientist C (Air quality modelling and Forecasting)** No. of posts **– 1 No.**

Essential Qualification:
- Masters degree in Meteorology/Physics/Mathematics/ Statistics/Atmospheric Sciences/ Environmental Sciences with at least 60% marks from recognized University / Institute
- **Minimum 3 years' experience** in Dust /Air Quality modelling using regional atmospheric weather-chemistry models.

Desirable Qualification:
- Ph.D. in any of the above subjects with at least 2 years' post-doc experience.
- Experience in FLEXPART ("FLEXible PARTicle dispersion) model
- Experience in weather /air quality forecasting models (like WRF-Chem model) and global models, preferably in operational mode.
- Shell scripting and meteorological data analysis tools (like GrADS, FERRET, NCL, NCO, CDO etc). Handling of large volume of data and conversant with data format like NetCDF, HDF, GRIB, GrADS etc
- Working experience in HPC (high performance computing) system with a knowledge of UNIX/LINUX Operating System.

Job Responsibilities:
Scientist has to work in development of Dust modelling and Forecasting capability and involve in improving the skill of air quality operational forecasting.

Post Code – **MAQWS-2019-003**
Post Name - **Project Scientist C (Air quality and Health Impacts)**
No. of posts **- 1No.**

Essential Qualification:
- B.Tech./BE (Environmental Engineering/ Environmental Sciences/Chemical Engineering) /Bachelor in Health/Medicine or equivalent with at least 60% marks from recognized University/ Institute OR Masters' degree in /Physics/Chemistry/ Atmospheric Sciences/ Environmental Sciences/Public Health with at least 60% marks from recognized University / Institute
- Minimum 3 years' experience in Environmental Health and Exposure Assessment

Desirable Qualification:
- Analysis work on Exposure assessment in air quality /Climate
- The experience should be demonstrated through scientific reports/publications.

Job Responsibilities:
Scientist is responsible for doing research in assessing the impact of air quality on Human health.

Post Code – **MAQWS-2019-004**
Post Name - **Project Scientist B (Advance Atmospheric Chemistry Measurements)**
No. of posts –1 No.

Essential Qualification:
- Master degree in Physics/Chemistry/Mathematics/ Statistics/Atmospheric Sciences/ Environmental Sciences/ with at least 60% marks from recognized University / Institute.

Desirable Qualification:
- Ph.D. in any of the above subjects with 2 years of post-doctoral experience in atmospheric Chemistry would be a desirable qualification.
- Research experience in operating advance instruments to monitor Volatile Organic Compounds like proton transfer reaction mass spectrometry (PTRMS).
- Experience in handling online air quality monitor and advance PTRMS instrument with time of flight (PTR-TF-MS) and TD-GC-FID systems.
- Research Experience supported by publications in good impact journals would be an added advantage.
- Candidate should be ready to work in field campaign anywhere in India.

Job Responsibilities:
Selected candidate has to work in Atmospheric Chemistry Laboratory and take care of operation and maintenance of advance instruments, in particular, PTRMS and data analysis.

Post Code – MAQWS-2019-005
Post Name - **Project Scientist -B (Chemical Characterization)**
No. of posts **- 1No.**

Essential Qualification:
- B.Tech./BE (Environmental Engineering/ Environmental Sciences/Chemical Engineering) with at least 60% marks from recognized University / Institute OR Masters degree in /Physics/ Chemistry/ Atmospheric Sciences/ Environmental Sciences with at least 60% marks from recognized University /Institute.

Desirable Qualification:
- Ph.D. in any of the above subjects with 2 years of post-doc experience
- **Experience in handling analytical chemistry instruments** such Elemental detection instruments, Gas chromatograph /Ion Chromatograph, Mass spectrometers, as evidenced by publications.
- Hands on experience with IC, AAS, GC-MS/MS, etc
- Knowledge of source apportionment work.
- Shell scripting and meteorological data analysis tools (like GrADS, FERRET, NCL, CDO etc).
- The experience should be demonstrated through scientific reports/publications.
- Good knowledge of atmospheric/environmental chemistry

Job Responsibilities:
Scientist is responsible for analysis of air/water samples, quality checks, calibration of instruments; publish results on chemical characterization of air quality and source contributions.

Post Code – **MAQWS-2019-006** Post Name – **Scientific Assistant Gr-C (Emission Inventory)** **No. Of posts – 1 No.**
Essential Qualification: • M.Sc. in **Environmental Sciences/Physics/Chemistry** with at least **55% marks** from a recognized University / Institute.
Desirable Qualification: • Experience after M.Sc. in Emission Inventory development of air pollutants and expertise in GIS. • Experience and knowledge of Sources of Emissions and data analysis tools. • Knowledge of Atmospheric air pollution monitoring, chemical characterization, etc. • Knowledge of MS Office /Excel, ARC-GIS, QGIS, and ERDAS software.

Post Code – **MAQWS-2019-007** Post Name – **Scientific Assistant Gr-C (Air quality analysis and research)** **No. of posts – 1 No.**
Essential Qualification: • M.Sc. in **Physics/Chemistry**/Mathematics/ **Atmospheric Sciences/ Environmental Sciences** with at least **55 % marks** from recognized University / Institute.
Desirable Qualification: • Experience after M.Sc. in air pollution data analysis and field Experience in High Volume Sampling. • Experience in air quality and weather Data management including QA&QC of data. • Knowledge of Air Pollution, Air Pollution Measurements, Analytical instruments and Chemical characterization of Suspended Particles/ Aerosols. • Knowledge of Fortran Language /R-Language/GrADs/MS-Office/Excel

Post Code – **MAQWS-2019-008** Post Name – **Scientific Assistant Gr-C (Air quality Instrumentation)** **No. Of posts – 1 No.**
Essential Qualification: • B.Tech/BE (Environmental Engineering/ Environmental Sciences/ OR M.Sc. in **Physics**/ **Instrumentation** with at least **55% marks** OR **CGPA (cumulative grade point average) of at least 'B' category** from recognized University / Institute
General Desirable Qualification: • Experience in Firmware design, Embedded System and Data Acquisition system related to air quality Index. • At least 1 year proven experience in Demo model development for science communication, embedded system development, open source H/W and S/W platform, Linux based open source system development of GUI using Python and Jawa. • Basic knowledge of air pollution and weather sensors. • Computer programming skills (like C-language, etc.).

Post Code – **MAQWS-2019-009** Post Name - **Project Assistant (Air quality and atmospheric Chemistry research)** **No. Of posts – 7 No.**
Essential Qualification: • **M.Sc.** in Physics/Chemistry/Atmospheric Sciences/ Environmental Sciences /Environmental Health/ Medical Sciences OR **B.Tech/B.E.** (Any discipline) with **at least 55%** marks from recognized University / Institute. • Basic knowledge of Atmospheric Science and data acquisition. .
Desirable Qualification: • Knowledge of Air Pollution /Climate change and its Impact of Health. • Candidate should be ready to work in field campaign anywhere in India and may be posted in Delhi/Ahmedabad/Mumbai/other city. • Knowledge of GIs software /data management /Programming skill.