

EARTH SYSTEM SCIENCE ORGANIZATION (ESSO)
Ministry of Earth Sciences, Government of India
INDIAN INSTITUTE OF TROPICAL METEOROLOGY
Dr. Homi Bhabha Road, Pashan, Pune – 411 008
Advertisement No. PER/ 9/ 2013
Advertisement of Junior Research Fellows (JRF) -3 posts

Applications are invited from bright young candidates for three temporary JRF positions at IITM, Pune under prestigious national project “**SYSTEM OF AIR QUALITY FORECASTING & RESEARCH FOR MUMBAI**” (SAFAR-MUMBAI-2013). Project tenure is of 4 years and candidate should register for Ph.D. degree. The fellowship amount is Rs. 16,000/- plus HRA per month. The essential qualification is M.Sc. or M.Tech. in Atmospheric Sciences /Physics /Environmental science /Environmental engineering/ Meteorology/ Applied Mathematics/ Geophysics/ Electronics from a recognized university. Desirable qualification is different for all 3 positions consisting of good knowledge of LINUX /UNIX system /FORTRAN programming; GIS & other software packages/ air pollution analysers and automatic weather stations.

Aspiring candidates may submit their applications along with CV online: <http://www.tropmet.res.in/~cdd/job/index-jrf.php> on or before 30th August 2013.

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Advertisement for Junior Research Fellows (JRF) under SAFAR

The Indian Institute of Tropical Meteorology 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. The Institute has excellent infrastructural facilities such as high performance computers, observational laboratories, modern library, workshop, etc. It has a strong link with various universities and national and international organizations.

The institute has successfully implemented the ambitious project “System of Air Quality Forecasting and Research (SAFAR)” for the 2 Metropolitan cities namely Delhi and Pune to predict the air quality for the first time in our country, which is now an operational service. The institute is in the process of expanding the SAFAR activities to Mumbai region and initiated the development of “**SYSTEM OF AIR QUALITY FORECASTING & RESEARCH**” (SAFAR-MUMBAI) for the air quality forecasting services for Mumbai city. The scope under the project would include- setting-up the monitoring network of air pollution and weather parameters; development of emission inventory of criteria pollutants, advancement in high resolution weather and atmospheric chemistry transport model for the nested domains and its operation in Super computers and establishment of wireless communication system for public display. Data generated will also be utilized to understand the scientific processes responsible for the variation of these pollutants on different time scales and their impact on health and agriculture over India. For the above project, applications are invited from bright and motivated young candidates for the temporary post of Junior Research Fellow (three numbers) which should lead to Ph.D. degree. The place of work will be IITM, Pune. All selected candidates need to get involved in field activities. Details are as follows:

Essential Qualifications:

M.Sc./M.Tech. in Atmospheric Sciences /Physics /Environmental Science /Environmental Engineering/ Meteorology/ Applied Mathematics/ Geophysics/ Electronics from a recognized university /institution. NET/GATE qualified candidates will be given preference.

Desirable Qualifications:

- 1) **Post-1 (Modeling):** Good knowledge of working in LINUX /UNIX system and Fortran programming skill along with WINDOWS. It is desirable if the candidate has hands on experience in WRF or WRF-Chem model. Such candidate will be given special preference. Scope of work: Requires helping in development and running the chemistry-transport air quality forecasting model and preparation of input data library.
- 2) **Post-2 (Emissions):** Good knowledge of computer usage in Windows and software packages. Knowledge of Geographic information system (GIS) software is desirable. Scope of the work: Development of emission inventory of pollutants and GHGs and field survey.
- 3) **Post-3 (Observations and Assimilation):** Good knowledge of instrumentation, computer usage and software packages. Special preference to those who have experience in air pollution analysers and automatic weather stations. Scope of the work: To help establish observational network in field (Mumbai), assimilation of meteorological and air quality data on routine basis and analysis with field activity.

Other details:

- Age Limit : 28 years as on 1.07.2013.
- Stipend : Rs. 16000/- plus HRA (performance based enhancement after 2 years).
- Tenure : 2 years which is extendable further based on satisfactory performance. The candidate should register for Ph. D.

Upper age limit is relaxed by 5 years for SC/ST, 3 years for OBC, 10 years for physically handicapped and as per rule for ex-servicemen.

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