



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT206/2022

Job Title

Junior Research Fellow

Job Reference Number

50357864

Application End Date

09.09.2022

Type of Employment

Proj. Staff Contract

No. of Position(s)

1

IITB Project Recruitment:

Project title: Understanding particle toxicity and its association with chemical constituents of ambient particulate matter in India: From local to regional spatial scales

About the project: This DST funded project aims to examine the chemical composition of PM_{2.5} and PM₁₀ near sources, in urban residential neighbourhoods and in regional background locations (away from any local sources) and their relationship with particle toxicity. This involves field monitoring, laboratory chemical analysis for organic and inorganic constituents in PM, measuring oxidative potential in PM and structured household questionnaire surveys.

Essential Qualifications & Experience:

Post Graduate Degree in Basic Science OR Graduate / Post Graduate Degree in Professional Course selected through a process described through any one of the following:

a. Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.

b. The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.

Candidates with prior experience in environmental monitoring and/or laboratory chemical analysis will be preferred.

Desirable: Candidates with fluency in Marathi or Kannada

Job Profile:

1. Conducting air pollution measurements in and outside residential households in urban and rural areas and near vehicular sources.

2. Logistic planning of field monitoring campaigns and conducting household questionnaire surveys in urban neighbourhoods.

3. Filter conditioning, weighing and sample preparation, extraction and chemical characterization of collected PM samples in laboratory.

4. Data entry, basic files preparation, data consolidation and analysis, and report writing using MS office.

Pay Details:

Consolidated salary Rs.31000/- p.m. + HRA

General information:

The candidate will require to travel ~20% time to the field sites which will include urban areas in Mumbai/ Delhi/ Bengaluru/ Hyderabad/ Mysuru and rural areas in Maharashtra.

The position is temporary for a period of 1 year and tenable only for the duration of the project. The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at his/ her own expenses.

For any queries/clarification please contact: recruit@ircc.iitb.ac.in