



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

**Advertisement No.: IRCC/EXT073/2022**

## **Job Title**

Sr. Project Technical Assistant

## **Job Reference Number**

50300566

## **Application End Date**

22.04.2022

## **Type of Employment**

Proj. Staff Contract

## **No. of Position(s)**

1

## **IITB Project Recruitment:**

Project title: Longitudinal effects of air pollution exposures on lung growth and development of biomarker of lung function deficit in urban children

About the project:

This multi-centric, multi-partner DBT-Wellcome Trust India Alliance funded project has following aims a. to measure the growth of lung function in schoolchildren ( age 11 to 14 years), over period of 5 years, b. to assess the long-term exposures of traffic related air pollution in schools and homes of the children in four cities – Bengaluru, Delhi, Mumbai and Mysuru, and c. to study the association between air pollution and lung function in children and examine the individual and community level factors modifying their association. The study involves field monitoring of air pollution in schools and homes, laboratory chemical analysis of collected particulate matter (PM2.5), conducting spirometry, biosamples collection and administering structured questionnaire surveys.

## **Essential Qualifications & Experience:**

MSc in Environmental Science/Atmospheric Science/ Chemistry or Equivalent subject with at least 2 year of research/work experience in air pollution monitoring/ laboratory chemical analysis

OR

MTech in Environmental Engineering or Equivalent subject with at least 1 year of research experience in in air pollution monitoring/ laboratory chemical analysis

Desirable:

1. Candidates with prior experience in air pollution monitoring and/or laboratory chemical analysis of particulate matter will be preferred.
2. Knowledge of GIS will be a huge advantage.
3. Good knowledge of MS office tools including Word and Excel.
4. Willingness and commitment to work in a diverse team of professionals to achieve the project targets in a timely manner

## **Job Profile:**

1. Assisting in conducting air pollution measurements in urban homes and schools in four cities (Mumbai, Delhi, Mysuru, Bengaluru) during two seasons.
2. Filter conditioning, weighing and sample preparation and air sampler preparation/ flow calibration for field work.

3. Filter extraction and laboratory chemical characterization of PM samples (for elemental and organic carbon, trace elements and heavy metals, and inorganic ions) and human biosamples and household dust (for heavy metals).
4. Development of GIS variables for air pollution exposure modeling.
5. Basic statistical analysis, chemical data summarization and report preparation.

***Pay Details:***

Level PR-A3: Salary range from Rs.25200 to Rs 50400 + Rs.5000.00/- Out Of Campus Allowance (if applicable) p.m.

***General information:***

The candidate will require to travel ~10% time to the field sites which will include urban areas in Mumbai, Delhi, Bengaluru, and Mysuru.

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](mailto:recruit@ircc.iitb.ac.in)