INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT011/2023

Job Title
Project Research Scientist

Job Reference Number
50388007

Application End Date
10.02.2023

Type of Employment
Proj. Staff Contract

No. of Position(s)
2

IITB Project Recruitment:

Project title: An air pollution intervention tool for India

About the project: PAVITRA - Air pollution management and intervention tool for India is a project to develop a new platform (SMoG In MAP India) to radically broaden access to robust air pollution intervention modeling in India.

Essential Qualifications & Experience:
1. PhD in Environmental/Chemical/Mechanical/Aerospace engineering (fresh or with one year of experience).
2. Experience in designing and performing experiments with Chemical Transport Models and demonstrated proficiency in model simulations & analysis.
3. Demonstrated knowledge of atmospheric and aerosol chemistry, physics, and air quality simulations.
4. Demonstrated ability to publish original research articles.
Desirable: Specific proficiency in scientific programming languages such as Fortran, Matlab, R and Python; experience in high-performance computing; porting and tuning models (CTMs like WRF-Chem, CAMx) on various platforms; shell scripting and data analysis (tools like NCL, Python, NCO, CDO); handling large volumes of data (formats including NetCDF, HDF, GRIB, ASCII). Experience in GCM modelling.

Job Profile:
The successful candidate will be part of the PAVITRA group of researchers at IITB. The specific position will involve initialising, developing, and evaluating chemical transport model simulations that will provide inputs for air quality studies using InMAP. Additionally, the candidate is expected to collaborate with a team, contribute to developing research publications, and independently communicate by email with an international team of collaborators.

Pay Details:
Consolidated salary range from Rs.72,000 to Rs 84,000 pm + 24% HRA (if applicable) p.m.

General information:
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