INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT397/2023

Job Title
Project Research Associate

Job Reference Number
50513573

Application End Date
21.11.2023

Type of Employment
Proj. Staff Contract

No. of Position(s)
 1

IITB Project Recruitment:

Project title: PAVITRA 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 InMAP India) to radically broaden access to robust air pollution intervention modelling in India.

Essential Qualifications & Experience:
M.Tech in Environmental/Chemical/Civil/Mechanical/Aerospace/Atmospheric Science/Physics/Meteorology and Climate Science/Environmental and Earth Science

Candidate should have:
- Experience in designing and performing experiments with Chemical Transport Models and demonstrated proficiency in model simulations & analysis.
- Demonstrated knowledge of atmospheric and aerosol chemistry, physics, and air quality simulations.
- Installing and automating CTMs on High Performance Computing Cluster
- Demonstrated ability to publish original research articles

Desirable Skills:
- 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 is also admissible.

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 from Rs.72,000 to Rs 84,000 pm + 24% HRA (if applicable)

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