INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT431/2023

Job Title
Project Research Associate

Job Reference Number
50523004

Application End Date
01.01.2024

Type of Employment
Proj. Staff Contract

No. of Position(s)
 2

IITB Project Recruitment:

Project title: Diseases and Interventions Modelling to Action Group (DIMAG)

About the project: IIT Bombay is the anchor organisation of a Disease Modelling Consortium. The consortium will house a secretariat and partner with various institutions for the disease modelling work. The disease modelling consortium will serve as a domestic institutional set-up for supporting policy & programmatic decisions on infectious diseases through transmission and system modelling. Their modelling work will act as a bridge between control & elimination of infectious diseases and strengthening integrated disease surveillance.
The main objectives of the consortium are to:
- To build an institutional nucleus for the country's disease modelling ecosystem, capacities, & capabilities to grow
- To generate sub-national disease burden and impact estimates
- To guide disease prevention interventions dynamically in focus geographies
- To measure progress and evaluate the performance of the various disease control and elimination programmes through disease modelling
- To train future modellers through various programs and workshops

Essential Qualifications & Experience:
MTech
OR
MSc with 2 years experience in Applied Mathematics, Physics, Statistics, Biostatistics, Computational Mathematics, Computational Biology, Economics, Computer Science Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering

Job Profile:
a) The RA will be required to develop mathematical/statistical models for the transmission of infectious diseases. These models will be used for prediction/forecasting of disease burdens under different interventions.
b) Prior knowledge of differential equations will be desirable.
c) Knowledge of Statistical tools like, probability, regression, multivariate analysis, variable selection, spatial and time series analysis etc will be desirable
d) The RAs should be able to program in C++/Python/R/Matlab

Pay Details:

Level PR-O1: Salary range from Rs.33600 to Rs 67200 + Rs.6250.00/- Out Of Campus Allowance (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