



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT033/2022

Job Title

Project Research Assistant

Job Reference Number

50287773

Application End Date

10.03.2022

Type of Employment

Proj. Staff Contract

No. of Position(s)

1

IITB Project Recruitment:

Project title: Demonstration of a fuel efficient low emission CNG operated high-speed dual fuel light-duty engine

About the project: The aim of this project is to identify the limitations of the natural gas dual fuel engine operation in a light-duty diesel engine across a range of engine operating conditions. With the improved understanding of the dual fuel technology, different methodologies would be adapted to mitigate the challenges so that the potential benefit of the technology, in terms of emission reduction and improvement in fuel economy, could be demonstrated in the laboratory.

Essential Qualifications & Experience:

1st class degree in ME/MTech in Mechanical/Automobile/Energy Engineering

or

BE/BTech in Mechanical/Automobile/Energy Engineering with at least 1 year of relevant internal combustion engine research/industry work experience

Job Profile:

- 1) Building up of engine test facility with lab technicians and research students
- 2) Project management and liaising with suppliers/vendors
- 3) Data collection from the engine test set up & data analysis
- 4) Preparation of progress report, presentations to the sponsor

Must have skills:

- 1) Strong background and passion on engines hardware and fuel injection equipment (Bosch/Delphi or similar)
- 2) Strong background on engine performance, emissions and combustion
- 3) Hands-on experience on setting up IC engine test facility, engine operation and experimental facilities
- 4) Statement of purpose (SOP) (maximum 1 page) relevant to the project is required to evaluate the technical and writing skills

5) A sense of urgency to meet project delivery schedule

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 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