



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

**Advertisement No.: IRCC/EXT175/2024**

**Job Title**

Project Associate - I

**Job Reference Number**

50614870

**Application End Date**

01.07.2024

**Type of Employment**

Proj. Staff Contract

**No. of Position(s)**

1

**IITB Project Recruitment:**

Project title: Surface roughness effects on a tandem-bladed axial flow compressor.

About the project: The project involves understanding the effect of surface roughness on the performance of a tandem-bladed axial compressor. The performance will be assessed through experiments as well as through computations.

**Essential Qualifications & Experience:**

Master's Degree in Natural or Agricultural Sciences / MVSc or bachelor's degree in Engineering or Technology or Medicine from a recognized University or equivalent

(i) Scholars who are selected through

(a) National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or

(b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions.

**Job Profile:**

The job involves carrying out experiments in a low-speed axial flow compressor test facility as well as computations using ANSYS CFX. Detailed measurements in the test rig to understand the effect of surface roughness on the performance of the compressor is to be carried out. The flow physics of the compressor is to be analysed through ANSYS CFX simulations. The candidate is expected to have a good knowledge on using ANSYS CFX and the Turbo tools of this package.

**Pay Details:**

Consolidated salary Rs.31000/- p.m. + HRA

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