



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT464/2023

Job Title

Junior Research Fellow

Job Reference Number

50548305

Application End Date

01.02.2024

Type of Employment

Proj. Staff Contract

No. of Position(s)

1

IITB Project Recruitment:

Project title: Active Flutter Suppression in Turbomachines.

About the project: Flutter is a dynamic aeroelastic phenomenon resulting in catastrophic failure of the structure. Flutter is observed in all the structures moving in a fluid, including wings, compressors, and wind turbines. The objectives of the present work are to design and realize an aeroelastic compressor cascade and implement active flutter suppression using steady/unsteady blowing. The aeroelastic compressor cascade would be instrumented with surface pressure measurements, accelerometers to understand the flow dynamics during flutter.

Essential Qualifications & Experience:

Post Graduate Degree in Basic Science OR Graduate / Post Graduate Degree in Professional Course selected through a process described through any one of the following:

- Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.
- The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.

Job Profile:

Carryout experiments in low speed wind tunnel and cascade tunnels, including model design, assembly, instrumentation. Carryout analysis of the experimental data.

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