

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Department of Mechanical and Industrial Engineering

Date: **October 04, 2022**

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal investigator (**Prof. S H Upadhyay**), Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee.

1. Title of project: **Design and Analysis of Inflatable Military Decoys & Testing of Experimental Model**
2. Sponsor of the project: **Defense Research and Development Organization (DRDO)**
3. Project position(s) and number: **01 (JRF)**
4. Qualifications:
 - a. **M.Tech/M.E. in Mechanical Engg./ Machine Design/Applied Mechanics/Aerospace Engg./CAD, CAM & Robotics/Equivalent.**
 - b. **Desirable: In depth knowledge of Machine Design, Control theory, FEM & Solid Mechanics, Hands-on experience of Matlab, Ansys, Nastran, and LS-Dyna, and experimentation.**
 - c. **The candidate must be GATE qualified**
5. Emoluments: **Rs 31,000/ Month + HRA* (for 1st and 2nd year), Rs 35,000 + HRA* (for 3rd year)**
*HRA as per the Institute Rules
6. Duration: **3 Years**
7. Job description:

The main objective of this research is to study inflatable military decoys with modeling and simulation. The portable and lightweight inflation systems are also being investigated in the current study. The parameters and methodologies developed through modeling and simulation will be utilized for the development of the experimental model.

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply. Only the shortlisted candidates will be notified through email for the interview.
2. Candidates should submit their applications with the following documents to the office of the Principal Investigator through email as a **Single PDF** in the following order:
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field, and others.
 - Attested copies of degree/certificate and experience certificate.
3. Preference will be given to SC/ST candidates on equal qualifications and experience.
4. The interview will be held online through Webex or MS team.

Note: The selected candidate may get an opportunity to pursue a Ph.D.(Once a project is over candidate will be given MHRD fellowship as per the Institute policy)

The last date for application along with necessary documents to be submitted by email to Principal Investigator is **October 17, 2022, by 5 PM.**

The candidates are also requested to fill the details in the following link by October 17, 2022, by 5 PM.

<https://forms.gle/kp3eckYahd4MuWU38>

The interview will be held online. Shortlisted candidates will be informed through email of the interview date and time.

Tel: 01332-285520/M: 8791690340

Email: sanjay.upadhyay@me.iitr.ac.in

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

APPROVED

Sanjay Upadhyay
6/10/22

डीन (सिक)/(Dean SRIC)
भा. प्रौ. सं. रुड़की/IIT Roorkee

Sanjay Upadhyay
4/10/2022
(S H Upadhyay)
Name and signature of PI

Sanjay Upadhyay
06/10/22
6/10/22