

# Department of Mechanical Engineering

Indian Institute of Technology Roorkee, Roorkee Uttarakhand-247667

Advt No. Mechanical/ PDF/

## Advertisement for Postdoctoral Fellowship Position

The department of mechanical engineering at the India Institute of Technology invites applications from outstanding and enthusiastic researchers for postdoctoral position under the mentorship of Prof. P. M Pathak, professor focused on Intelligent UAV applications to work on “**Design and development of an intelligent unmanned aerial vehicle applied to open cast minefield surveillance for real-time monitoring, hazards and vulnerability assessment**”

The prospective candidate is expected to have a strong background in one or more areas within system dynamics, robotics, automation, and modeling and simulation. Candidate should be passionate about working on cutting edge research leading to high impact publications and products. Other research activities may include participating in research discussion with overseas universities and research centers.

Last date for submitting the soft copy of application is **17.02.2023**. application received after this date will not be considered.

### Minimum qualification and expertise:

#### Essential qualification:

1. Ph.D in Mechanical design/System dynamics/Robotics/ Modeling and simulation.
2. Overall career first class or CGPA >7.0 (on scale of 10.0)

#### Desired qualification:

1. Prior experience of drone design and development will be preferable.
2. Knowledge of simulation in MATLAB/Simulink, python programming
3. Basic knowledge of controllers.
4. Candidates should be passionate about working on cutting edge research leading to high impact product and services.

### Duration of Fellowship:

The duration of the fellowship will be 5 months extendable on the basis of performance if necessary. The candidates is expected to join the department as soon as offer letter released. The fellow will receive a consolidated pay 55,000/-.

### How to apply:

Candidates can apply with cover letter, curriculum vitae by email (for email, Subject line: Application for Postdoc position and all the documents arranged in **one PDF file** named as “Candidate name Institute of PhD Degree\_Year of PhD”) not later than **17<sup>th</sup> Feb 2023** to:

Email: [pushparaj.pathak@me.iitr.ac.in](mailto:pushparaj.pathak@me.iitr.ac.in)

Phone: **01332-286618**

### Note:

All the postdoctoral fellows (PDF) will be registered as IIT Roorkee students for availing the facilities of accommodation, hospital, medical insurance scheme, computer center, library, sports etc.

*Pushparaj Pathak*  
06.02.23  
06/02/23  
Dean (SRIC)  
भा. प्रौ. सं. रुड़की/IIT Roorkee