Indian Institute of Technology
Roorkee
DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

Advt. No. : IITR/MI/PDF/25-26/ Dated: August 04, 2025

ADVERTISEMENT FOR POST-DOCTORAL FELLOWSHIP POSITION

The Department of Mechanical and Industrial Engineering at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for a postdoctoral position under the mentorship of Prof. Sudhakar Subudhi, focused on "Development of point-of-care diagnostics techniques for various blood-based disease and disorder using computational and deep learning framework along with experiment".

Last date for the submission of application is August 25, 2025. *Applications received after this date will not be considered.*

Minimum qualification and experience:
Essential qualification:
. The candidate must have Ph.D. in Mechanical Engineering with experience in experimental and CFD area.

Desirable:
. The prospective candidate is expected to have a good publication record.
. Knowledge of any of the computational modelling software (e.g. ANSYS, COMSOL, OpenFOAM etc.).
Candidates who have recently submitted their thesis are also eligible to apply subjected to the condition that they should furnish the proof of the award of PhD. degree at the time of interview at IIT Roorkee if shortlisted.

Duration and fellowship amount:

The duration of the fellowship will be 2 years. The Fellowship may be terminated by either side by giving one-month notice. A consolidated fellowship of Rs. 80,000.00 per month for two years and a contingency of Rs. 50,000.00 per annum will be awarded to Post-Doctoral Fellows.

How to apply?
Candidates should clearly mention Advt. No. and date with title of the position applying for with a covering letter, curriculum vitae, three reference letters*, list of publications (highlighted with the most relevant publication(s) for the post), research statement describing past research and plans for future research in the context of the focus for which the post is being advertised (mandatory) all in a single PDF file by e-mail to: sudhakar.subudhi@me.iitr.ac.in

Notes:
(i) Post-doctoral Fellows will be registered as students and may avail facilities of library, computer center, available hospital facilities etc. They will be entitled to 2.5 days of leave per completed calendar month. No carry forward for leave will be allowed beyond a calendar year. PDF positions are purely temporary.
(ii) The screened candidates will be called for an interview.

About the Department:

The Department of Mechanical Engineering came into being in the year 1946 and the first batch of mechanical Ensineers graduated in the year 1949.The department was renamed as Department of mechanical & Industrial Engineering on its silver jubilee in 1974 when an undergraduate programme in Industrial Engineering was started. At present, it offers both undergraduate and postgraduate courses in various faces of Mechanical and Industrial Engineering. The department offers Master of Technology courses in Machine Design Engineering, Production and Industrial Systems Engineering, Thermal System Engineering and CAD. CAM and Robotics. The department has laboratory and workshop facilities with modern sophisticated equipment to carry out research in all areas related to Mechanical and Production & Industrial Engineering. The department currently has 46 faculty members in Machine Design, Production and Industrial Engineering, and Thermal Engineering specialization. The Thermal Engineering group of the department pursues research work in the broad areas of Two-Phase Florv, Combustion & l.C. Engine, Heat Transfer, Fluid Power, Conventional & Non-Conventional Energy Systems, Steam Power, Fluid Mechanics, CFD, Refrigeration and Air Conditioning, Cryogenics, Turbomachines.

(For more details, please visit: https ://me.iitr.ac.in/)

About the Institute:

IIT Roorkee has its roots in the Roorkee College, which was set up in 1847. It was renamed as the Thomason College of Civil Engineering in 1854. The College laid the foundation of modern engineering education and the use of Civil Engineering practices in the infrastructure development of the country. The irrigation infrastructure in the form of dams and canals, roads and highways, railway, bridges, etc. in the country, all have been the outcome of the engineering education imparted in this, the only engineering institution in the country, at that point of time. It got elevated as the first technical University of the country in 1948 through the University of Roorkee Act, 1947 passed by the United Provinces Legislature. University of Roorkee also became the first institution in the country to offer postgraduate programs engineering and technology in 1955. On September 21, 2001, the University was converted into an IIT by the Government of India through an Act of Parliament and recognized as an institution of national importance. Roorkee is the entry point of the Uttarakhand state. It is on the way to Haridwar from Delhi.

(For more details, please visit: https://www.iitr.ac.in.)