SRIC/06

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

Dated: 09/06/2026

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 - Name: Prof. Akshay Dvivedi, Mechanical and Industrial Engineering Department of the Indian Institute of Technology, Roorkee.

1. Title of project: **Center of Excellence**
2. Sponsor of the project: **Ministry of Heavy Industries**
3. Project position(s) and number: **Project Associate (01)**
4. Emoluments: **INR 25000/- to INR 60000/- + HRA**
5. Age Limit: N/A
6. Duration: 1 year or up to the project duration
7. Qualifications: B. Tech in Computer Science and Engineering with work experience in a Research laboratory/ government institution
8. Technical Skills and Job Description:
   - Demonstrated experience in developing and implementing Machine Learning solutions for IoT, smart agriculture, and Brain-Computer Interface (BCI) applications using Python and data-driven methodologies.
   - Proven capability in designing predictive analytics models, including time-series forecasting techniques such as SARIMA and Exponential Smoothing for real-world optimization problems.
   - Experience in AI/ML model development, feature engineering, signal processing, and classification techniques using algorithms such as SVM, Decision Trees, and Boosting methods.
   - Knowledge of EEG signal analysis, neural signal processing, and machine learning-based assistive technologies using Python, Scikit-learn, and MNE-Python.
   - Hands-on experience in integrating Machine Learning with Internet of Things (IoT), Augmented Reality (AR), and embedded systems for intelligent automation solutions.
   - Proficiency in Python, Machine Learning, MATLAB, Scikit-learn, MNE-Python, Arduino, Unity, Blynk Cloud, IoT platforms, and web-based technology integration.
   - Experience in data preprocessing, noise reduction, feature extraction, Independent Component Analysis (ICA), and performance evaluation using standard ML metrics such as F1-Score.
   - Familiarity with AR application development, real-time device communication, cloud-based IoT architectures, and sensor-driven intelligent systems.
   - Strong analytical, problem-solving, research, and project leadership skills demonstrated through academic projects, conference presentations, and multidisciplinary team management.
   - Experience working in quality assurance and engineering environments, with exposure to research, testing, validation, and technology-driven innovation projects.

   Selection: The interested candidates may submit their applications to akshaydvivedi@me.iitr.ac.in by 20th June 2026 at 5:00 PM
1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
   - 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. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.

4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

The last date for application to be submitted to office of Principal Investigator is **20th June 2026 by 5 PM**. (*not applicable for walk in interview*)

The interview will be held at ..... on ..... at ..... (to be given only for walk in interview)

Tel: 01332285428 **Fax:**

Akshay Dvived.

Name and signature of Principal Investigator

Email: akshaydvivedi@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

Dean
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