

BIT SINDRI, DHANBAD, JHARKHAND

Department of Production and Industrial Engineering

offers

SUMMER INTERNSHIP PROGRAM 2025



MAJOR ADVANCED FACILITIES

- Virtual Reality lab
- 3d printing setup
- Advance welding setup
- Robotic spot & MIG welding
- CNC lathe and milling
- High computing workstation
- Project lab
- Corrosion Setup
- Thermal camera
- СММ

Eligibility 2nd /3rd /4th year B.E/B.Tech 1st & 2nd year M.Tech

in

Benefits Work on live project Hands-on experience Skill development

APPLY NOW

Last date : 31 May, 2025

RESEARCH TOPICS

- 3D printing
- Mechatronics
- AR/VR
- Equipment Maintenance
- AI/ML for manufacturing
- CAD/CAM
- Welding/WAAM/MAM
- Design and Simulation/FEA
- Thermal modelling
- Machining



BIT SINDRI, DHANBAD DEPARTMENT OF PRODUCTION AND INDUSTRIAL ENGINEERING

Summer Research Internship Program-2025

Applications are invited for the Summer Research Internship-2025 offered by the Production and Industrial Engineering Department, BIT Sindri, for 4 to 6-week duration, June-July 2025. The internship will be in offline/online mode.

1. Eligibility

Undergraduate (B.E/B.Tech) and postgraduate (M.Tech) students with a minimum 7.00 CGPA **Eligible branch:** Production and Industrial Engineering, Mechanical Engineering, Mechatronics Engineering, Manufacturing Technology, Metallurgical and Materials Engineering, CSE, and other equivalent.

2. Faculty Mentors

The list of faculty mentors from the Production and Industrial department is available at the institution website (<u>https://www.bitsindri.ac.in/production-engineering</u>/). The candidates may select a faculty mentor depending on the match of their area of interest. Faculty mentor will interact with the undergraduate students. The scope of training/internship and number of contact hours can be decided with mutual consent between the faculty mentor and the student, depending upon the nature of work.

3. Selection Procedure

The student has to directly interact with the faculty mentor of the department through email and get the consent for the internship. After receiving the consent, the undergraduate student can then fill in the application in google form: <u>https://forms.gle/zy73zXa5ffdndN477</u>

4. Duration

The internship duration is 4 to 6 weeks, tentatively during June-July 2025. The final duration will be decided by mentors based on the candidate's summer break.

5. Financial Support

Not available

6. Certificate

A Certificate will be issued by the respective department faculty mentor on the successful completion of the internship for the students after submission of the report to the department authority, duly signed and checked by a faculty mentor.

Internship area/topic and mentors available

Sl. No.	Name of the Faculty Member	Area of Internship/ Research topic	No. of Seats	Prerequisite if any
1	Prof. Prakash Kumar	Equipment Maintenance Supply Chain Management Inventory management	4	Basic understanding of MATLAB, C++, Prolog and simple python program for Machine Learning
2.	Prof. Rakesh	Unconventional machining	4	Basic understanding of the related fields
3.	Dr. Sumanta Mukherjee	Deep Learning/ Virtual Reality/ CAD/ Mechatronics/ 3D printing	5	Deep Learning: Python Virtual Reality: C++ CAD: Any CAD software + coding in any language Mechatronics: Arduino IDE 3D printing: CAD
4.	Dr. Surya Narayan Panda	Simulation and Optimization Design Optimization Bearing Dynamics Soft computing methods using AI/ML	4	Basic MATLAB / ansys/ Catia/ NX design/ drawing skill
5.	Dr. Manowar Hussain	Simulation of welding processes and material characterization including design of working setup	5	Comsol/Ansys/Fusion 360/ Simufact/other simulation software
6.	Dr. Mukesh Chandra	AI/ML, deep learning for manufacturing, Metal AM, Welding, and Acoustic emission and signal processing	5	Basics of Python/MATLAB programming and Machine learning/Comsol/Ansys
7.	Dr. Kashif H. Kazmi	Additive Manufacturing and Characterisation	4	Basic understanding of the related fields
8.	Mr. Abhishek Raj	Design Optimisation, thermal analysis and optimisation, generative design, Design Automation	4	Fusion 360 & NX

For any query, please contact on above contact

Dr. Mukesh Chandra Coordinator, Summer Internship Production and Industrial Engg. <u>mukesh.prod@bitsindri.ac.in</u> +91-8404995995