

ABOUT THE INTERNSHIP

Dive into the Microscopic World: Summer Internship in Material Characterization

This intensive summer internship offers a hands-on exploration into the fascinating field of **Material Characterization**. Material characterization uses a range of analytical techniques to probe the **structure, properties, and performance** of materials at various scales – from the macroscopic down to the atomic level. It's the crucial link between material processing and its real-world applications. Understanding the fundamental characteristics of materials is essential for:

- **Materials Selection:** Choosing right material
- **Quality Control:** Ensuring materials meet required specifications.
- **Failure Analysis:** Determining the root cause of material failures.
- **Research & Development:** Developing new improved materials.
- **Process Optimization:** to achieve desired material properties.

During this internship, you will:

- Gain hands-on experience of key characterization techniques.
- Learn the theoretical principles behind each technique.
- Analyze real-world samples and interpret the resulting data.
- Develop critical thinking and problem-solving skills
- Interact with experienced researchers and professionals

This internship is ideal for Diploma, B. Tech., M. Tech. students in Materials Science, Mechanical Engineering, Chemical Engineering, Metallurgy, Physics, Chemistry & Related disciplines

Embark a journey to unravel inner workings of materials and gain invaluable skills for your future scientific or engineering career!

DURATION & COURSE FEE PER PARTICIPANT

Schedule: Starting from 2nd June to 25th July 2025.

Course fee: Rs. 1000/- payable to 'student fund'
A/C No. 10635508860, IFSC: SBIN0011812

To register go to the link given below:

<https://forms.gle/TbeahBwZM36hCcPC8>

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**DEPARTMENT OF
MECHANICAL ENGINEERING
BIT SINDRI, DHANBAD**



‘Unlocking Material Secrets: A Summer Internship In Characterization’



Offers

SUMMER INTERNSHIP

On

Material Characterization

Period: 2nd June – 25th July 2025

**AT
DEPARTMENT OF
MECHANICAL ENGINEERING
BIT SINDRI, DHANBAD
JHARKHAND**