



Birla Institute of Technology

Mesra, Ranchi - 835215

SUMMER INTERNSHIP PROGRAM

on

Advanced Analytical Instrumentation Tools & Techniques

(30th May 2025 to 4th July 2025)

Organized by

Central Instrumentation Facility



The "**Summer Internship Program - 2025**" offers a unique opportunity to explore the use and applications of advanced analytical tools and techniques important for material characterization. Under the mentorship of experienced professionals, interns will be encouraged to deepen their understanding of the operating principles of various instruments, as well as the processes involved in data analysis and result interpretation.

Eligibility Criteria for the Summer Internship -2025

- Candidates must be undergraduate or postgraduate students (Passed/Pursuing) in the field of science, engineering, technology, or a related discipline.
- Laboratory staff, technical or scientific working professionals in government-recognized institutions, autonomous institutions, research organizations, and industries.

Instrumental sections available for Summer Internship

Sl. No.	Instrumental Sections	Major Instruments	Section Co-ordinator
1.	Spectroscopy & Thermal Analysis	FTIR, Spectrofluorometer, DLS, Master Sizer, TGA/ DTA/DSC, Thermal Conductivity Analyzer	Dr. Sudhir Kumar Saw Email: sudhirsaw@bitmesra.ac.in
2.	Advanced Microscopy	FESEM-EDS, SEM, AFM, Metallurgical Microscope	Dr. Ashwini Kumar Singh Email: rhashwini@gmail.com
3.	Chromatography	Flash Chromatography, HPTLC, Analytical HPLC, Prep HPLC, LC-MS, HPTLC MS Interface, GC	Dr S J Rahaman Email: sjrahaman@bitmesra.ac.in
4.	Mechanical and Rheological Analysis	UTM, Tribometer, Pulse Analyzer, Rheometer, BET Surface Area Analyzer	Mr. Samir Kumar Pradhan Email: samirbit@gmail.com
5.	Water and Wastewater Analysis	ICP-MS, ICP-OES, ASV, Microwave Digestion, Colorimeter, Ion Analyzer, COD Analyzer, Ion Chromatography	Dr. Sanjaya Kumar Swain Email: skswain@bitmesra.ac.in
6.	X-ray diffraction Technique for Material Characterization	X-Ray diffractometer (SmartLab, Rigaku), Single Crystal X-Ray Diffractometer (Xcalibur)	Dr. Narendra Yadav Email:yadavnarendra@bitmesra.ac.in

Important Dates

Last Date of Application: 31st March 2025
 Date of Selection List Declaration: 5th April 2025
 Late Date of Internship Fee Submission: 10th April 2025
 Internship Commencement Date: 30th May 2025
 Internship End Date: 4th July 2025

Internship Fee

Students: Rs. 6000 +18% GST
 Sponsored Candidates: Rs. 10000+18% GST

HOW TO APPLY?

Applications along with a resume can be submitted by email in the prescribed format to cif@bitmesra.ac.in with a copy to the concerned person.



https://docs.google.com/forms/d/11eAuYqA_cPQpk1Iqx2uieh-qvAVgmfhEyN2ZfkLQh8M/edit

GENERAL INSTRUCTIONS:

- Applying for multiple sections - Applicant can submit a maximum of 3 separate applications, but he/she will be selected for one course only as per availability and eligibility.
- Certificate of completion will be provided after completion of the internship.
- No Objection Certificate should be provided by the Employer/Director / Manager/ CEO/ Principal/ Dean/HOD (wherever applicable).
- **Bank Detail (for Electronic Fund Transfer)**

Bank details for electronic payment will be shared with candidates after applications are shortlisted

- The Internship Fee is non-refundable under any circumstances once paid.
- The list of shortlisted candidates will be displayed on the institute's website. After selection, the course fee is to be deposited through electronic means (by selected candidates only) and a scanned copy of the bank/online receipt with a valid photo ID is sent to e-mail id: cif@bitmesra.ac.in
- Original receipt and self-attested set of documents shall be deposited at the time of joining the course.
- All documents in their original form are to be shown on the joining day of the internship program.
- Accommodation will be provided in BIT Hostel with Rs. 500=00 as seat rent for entire program and mess facility on chargeable basis as per the BIT norms, shall be provided to the selected Interns for the program.
- No traveling or any other allowances will be paid to the candidate for attending the internship program.
- It is an internship program, and it would, therefore, not confer any implicit or explicit right/claim for any candidates claiming extension or absorption at Birla Institute of Technology, Mesra.
- For any further query, feel free to contact:

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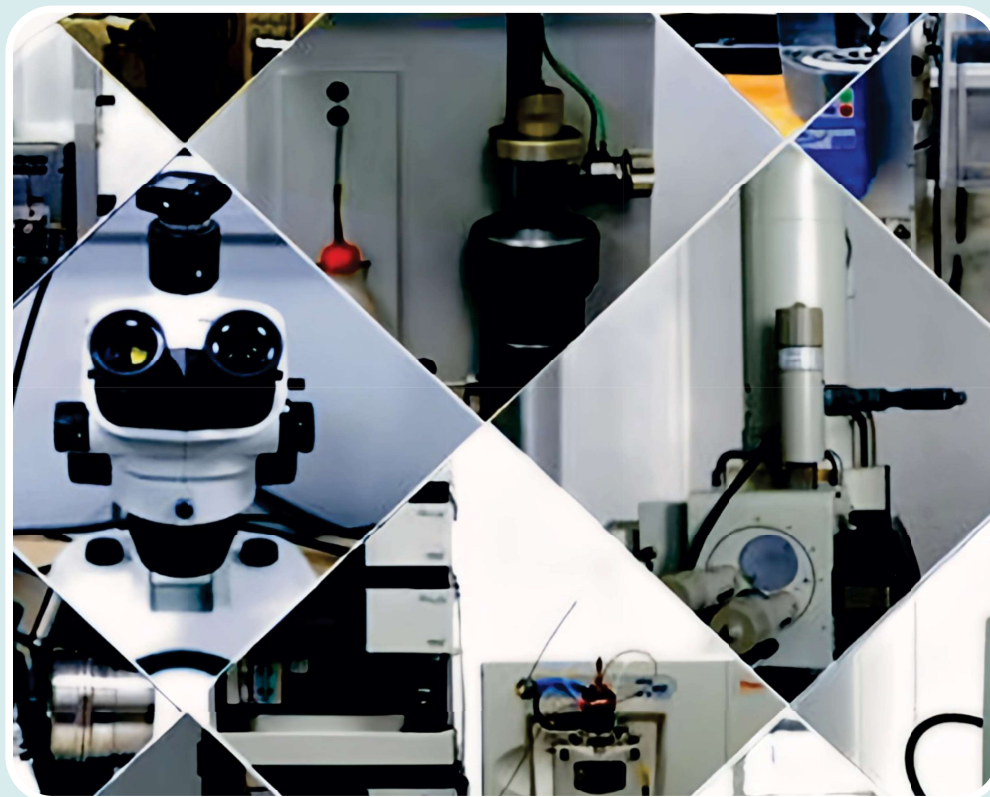
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Central Instrumentation Facility (CIF), BIT Mesra, was established in the year 2006 under the Technical Education Quality Improvement Programme (TEQIP), funded by the World Bank and the Government of Jharkhand. The Primary objective of CIF is to provide latest and advanced analytical techniques for research in various areas of science and technology. CIF houses several high-end state-of-the-art instruments, which are operated and maintained by a dedicated and qualified group of scientists and engineers. This facility is also open to researchers from other Universities, academic institutions, research institutes, and Industries.



Contact Us:
Central Instrumentation Facility (CIF)

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