

# SUMMER INTERNSHIP PROGRAMME

## (15<sup>th</sup> May - 14<sup>th</sup> July 2023)

### CENTRAL INSTRUMENTATION FACILITY

The summer internship programme aims to provide potential candidates with a unique opportunity to learn the applications of various advanced analytical instruments, which are essential for the characterization of materials. Under the guidance of qualified professionals, the interns are encouraged to become familiar with the tools. They will be given an introduction to the instrument's operation, its operating principles, data analysis, and result interpretation.

#### WHO CAN APPLY?

- Undergraduate or Postgraduate (Pursuing/Completed) in any field of science, engineering, technology or equivalent.
- Laboratory or Technical staff working in Govt. recognized Institution/ Research Organization/ Industry.

#### SECTIONS AVAILABLE FOR INTERNSHIP

|   | Section                             | Major Equipment                                 | Concerned Person                                    |
|---|-------------------------------------|---|---|
| 1 | Spectroscopy & Thermal Analysis     | DSC, TGA, DLS, FTIR                             | Dr. S.K. Saw<br>Email: sudhirsaw@bitmesra.ac.in     |
| 2 | Advanced Microscopy                 | FESEM-EDS, SEM, AFM                             | Dr. A.K. Singh<br>Email: ashwini@bitmesra.ac.in     |
| 3 | Chromatography                      | LC-MS, HPTLC, HPLC                              | Mr. R. Prasad<br>Email: rammani@bitmesra.ac.in      |
| 4 | X-ray Diffraction                   | Powder XRD, SC-XRD                              | Dr. N. Yadav<br>Email: yadavnarendra@bitmesra.ac.in |
| 5 | Mechanical and Rheological Analysis | UTM, Tribometer, MFA, Rheometer                 | Mr. S.K.Pradhan<br>Email: samirbit@gmail.com        |
| 6 | Water and Waste Water Analysis      | ICP-MS, ICP-OES, ASV, Colorimeter, Ion Analyser | Dr. S.K. Swain<br>Email: skswain@bitmesra.ac.in     |

#### IMPORTANT DATES

Last Date of Application: 31<sup>st</sup> March 2023  
 Date of Selection List Declaration: 10th April 2023  
 Late Date of Internship Fee Submission: 25<sup>th</sup> April 2023  
 Internship Commencement Date: 15<sup>th</sup> May 2023  
 Internship End Date: 14<sup>th</sup> July 2023

#### INTERNSHIP FEE

The Internship Fee for Selected candidates are given below:

Students: Rs. 8000 +18% GST  
 Sponsored Candidates: Rs. 16000+18% GST



**Birla Institute of Technology**  
**Mesra, Ranchi - 835215**



## HOW TO APPLY?

Online applications are invited for summer internship program 2023. The application for the same can be filled up here <https://forms.gle/L8D4TQnP4Tdd7tbp7> or



Scan QR code to register

## GENERAL INSTRUCTIONS:

- Applying for multiple section - Applicant can choose maximum 3 section in preference but he/she will be selected for one section only as per availability and eligibility.
- The list of shortlisted candidates will be displayed in the institute's website. After selection, the course fee to be deposited through electronic means (by selected candidates only) and scanned copy of bank/online receipt with valid photo ID is to be sent to e-mail id: [cif@bitmesra.ac.in](mailto:cif@bitmesra.ac.in)
- **Bank Detail (for Electronic Fund Transfer)**
  - Account Name: Birla Institute of Technology
  - Name of the Bank: ICICI Bank Ltd.
  - Name and Address of the Branch : Ranchi Branch, Main Road Ranchi.
  - Branch Account Number: 017501015718
  - IFSC Code: ICIC0000175
- The Internship Fee is non-refundable under any circumstances once paid.
- Original receipt and self-attested set of documents shall be deposited at time of joining of the course.
- No Objection Certificate should be provided by Employer/ Director / Manager/ CEO/ Principal/ Dean/ HOD (wherever applicable).
- All documents in original to be shown on the joining day for internship programme.
- No accommodation will be provided.
- No travelling or any other allowances will be paid to candidate for attending the internship program.
- It is an internship program and it would, therefore, not confer any right/claim implicit or explicit for any candidates for claiming extension or absorption in Birla Institute of Technology, Mesra.
- Certificate of Internship will be provided after successful completion of internship.
- For any further query, feel free to contact at [cif@bitmesra.ac.in](mailto:cif@bitmesra.ac.in) or

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| Mr. Rammani Prasad<br>Junior Chemist<br><a href="mailto:rammani@bitmesra.ac.in">rammani@bitmesra.ac.in</a>                   | Dr. Sanjaya Kumar Swain<br>Research Officer<br>Email: <a href="mailto:skswain@bitmesra.ac.in">skswain@bitmesra.ac.in</a> |
| Dr. Sanjay Kumar Dhua<br>Senior Research Advisor,<br>Email: <a href="mailto:skdhua@bitmesra.ac.in">skdhua@bitmesra.ac.in</a> | Dr. Gautam Sarkhel<br>Professor-Incharge,<br>Email: <a href="mailto:ic.cif@bitmesra.ac.in">ic.cif@bitmesra.ac.in</a>     |

**Central Instrumentation Facility (CIF), BIT Mesra** was established in the year 2006 under Technical Education Quality Improvement Programme (TEQIP) funded by World Bank and 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. The Central Instrumentation Facility (CIF), BIT Mesra houses several high-end state-of-the-art instruments which are operated and maintained by dedicated and qualified group of Scientists and Engineers. This facility is also open to the researchers from other universities, academic institutes, research institutes and industries.



**Contact Us:**  
**Central Instrumentation Facility (CIF)**

Birla Institute of Technology  
Mesra, Ranchi - 835215

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